



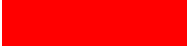

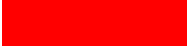


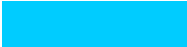
Product overview

valid from 01.07.2011 to 31.12.2011





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Description of the Symbols Used



This symbol indicates a specification of a product or an information which is important for correct ordering (e. g. differences in version). Please pay special attention to these sections in order to avoid incorrect ordering.



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Sunny Tripower 17000TL (STP 17000TL-10)

valid from 01.07.2011 to 31.12.2011

STP 17000TL-10 (price before options):	x	xx	x	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac,max 17000 W/ 17000 VA three-phase feed, with reactive power supply, transformerless, graphic display, rotary coded switch for country settings SMA Bluetooth® communication interface, multi-function relay Multi-String function, DC SUNCLIX terminal incl. Electronic Solar Switch (ESS)
specific price 1)							
Communication:	0 1						Bluetooth communication interface (standard) Bluetooth wireless + RS485
Color of lid:		08					blue (additional colors on request)
DC overvoltage discharger:			0 1 2				without DC overvoltage protector (type II) with DC overvoltage protector (type II) for input A with DC overvoltage protector (type II) for input A and B
Documentation:					DE EN ES FR GR IT PT CZ NL 00		German English Spanish French Greek Italian Portuguese Czech Dutch Language package (DE, EN, ES, FR, GR, IT, PT, CZ, NL)
Country specific grid settings:					DE OF ZZ		Grid parameter country settings: Default setting Germany (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years
Warranty extension up to 15 years
Warranty extension up to 20 years
Warranty extension up to 25 years

Comments

1) Can vary depending on options.


Sunny Tripower 15000TL (STP 15000TL-10)

valid from 01.07.2011 to 31.12.2011

STP 15000TL-10 (price before options):	x	xx	x	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac,max 15000 W/ 15000 VA three-phase feed, with reactive power supply, transformerless, graphic display, rotary coded switch for country settings SMA Bluetooth® communication interface, multi-function relay Multi-String function, DC SUNCLIX terminal incl. Electronic Solar Switch (ESS)
specific price 1)							
Communication:	0 1						Bluetooth communication interface (standard) Bluetooth wireless + RS485
Color of lid:		08					blue (additional colors on request)
DC overvoltage discharger:			0 1 2				without DC overvoltage protector (type II) with DC overvoltage protector (type II) for input A with DC overvoltage protector (type II) for input A and B
Documentation:					DE EN ES FR GR IT PT CZ NL 00		German English Spanish French Greek Italian Portuguese Czech Dutch Language package (DE, EN, ES, FR, GR, IT, PT, CZ, NL)
Country specific grid settings:					DE OF ZZ		Grid parameter country settings: Default setting Germany (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years
Warranty extension up to 15 years
Warranty extension up to 20 years
Warranty extension up to 25 years

Comments

1) Can vary depending on options.


Sunny Tripower 12000TL (STP 12000TL-10)

valid from 01.07.2011 to 31.12.2011

STP 12000TL-10 (price before options):	x	xx	x	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac,max 12000 W/ 12000 VA three-phase feed, with reactive power supply, transformerless, graphic display, rotary coded switch for country settings SMA Bluetooth® communication interface, multi-function relay Multi-String function, DC SUNCLIX terminal incl. Electronic Solar Switch (ESS)
specific price 1)							
Communication:	0 1						Bluetooth communication interface (standard) Bluetooth wireless + RS485
Color of lid:		08					blue (additional colors on request)
DC overvoltage discharger:			0 1 2				without DC overvoltage protector (type II) with DC overvoltage protector (type II) for input A with DC overvoltage protector (type II) for input A and B
Documentation:					DE EN ES FR GR IT PT CZ NL 00		German English Spanish French Greek Italian Portuguese Czech Dutch Language package (DE, EN, ES, FR, GR, IT, PT, CZ, NL)
Country specific grid settings:					DE OF ZZ		DE Grid parameter country settings: Default setting Germany (standard) OF Default setting for offgrid operation ZZ Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years
Warranty extension up to 15 years
Warranty extension up to 20 years
Warranty extension up to 25 years

Comments

1) Can vary depending on options.


Sunny Tripower 10000TL (STP 10000TL-10)

valid from 01.07.2011 to 31.12.2011

STP 10000TL-10 (price before options):	x	xx	x	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac,max 10000 W/ 10000 VA three-phase feed, with reactive power supply, transformerless, graphic display, rotary coded switch for country settings SMA Bluetooth® communication interface, multi-function relay Multi-String function, DC SUNCLIX terminal incl. Electronic Solar Switch (ESS)
specific price 1)							
Communication:	0 1						Bluetooth communication interface (standard) Bluetooth wireless + RS485
Color of lid:		08					blue (additional colors on request)
DC overvoltage discharger:			0 1 2				without DC overvoltage protector (type II) with DC overvoltage protector (type II) for input A with DC overvoltage protector (type II) for input A and B
Documentation:					DE EN ES FR GR IT PT CZ NL 00		German English Spanish French Greek Italian Portuguese Czech Dutch Language package (DE, EN, ES, FR, GR, IT, PT, CZ, NL)
Country specific grid settings:					DE OF ZZ		Grid parameter country settings: Default setting Germany (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years
Warranty extension up to 15 years
Warranty extension up to 20 years
Warranty extension up to 25 years

Comments

1) Can vary depending on options.


Sunny Tripower 8000TL (STP 8000TL-10)

valid from 01.07.2011 to 31.12.2011

STP 8000TL-10 (price before options):	x	xx	x	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac,max 8000 W/ 8000 VA three-phase feed, with reactive power supply, transformerless, graphic display, rotary coded switch for country settings SMA Bluetooth® communication interface, multi-function relay Multi-String function, DC SUNCLIX terminal incl. Electronic Solar Switch (ESS)
specific price 1)							
Communication:	0 1						Bluetooth communication interface (standard) Bluetooth wireless + RS485
Color of lid:		08					blue (additional colors on request)
DC overvoltage discharger:			0 1 2				without DC overvoltage protector (type II) with DC overvoltage protector (type II) for input A with DC overvoltage protector (type II) for input A and B
Documentation:					DE EN ES FR GR IT PT CZ NL 00		German English Spanish French Greek Italian Portuguese Czech Dutch Language package (DE, EN, ES, FR, GR, IT, PT, CZ, NL)
Country specific grid settings:					DE OF ZZ		Grid parameter country settings: Default setting Germany (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years
Warranty extension up to 15 years
Warranty extension up to 20 years
Warranty extension up to 25 years

Comments

1) Can vary depending on options.



Sunny Mini Central 11000TL (SMC 11000TLRP-10) with Reactive Power Control

valid from 01.07.2011 to 31.12.2011

SMC 11000TLRP-10 (price before options):	x	0	0	x	4	1	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac,max 11000 W/11000 VA with reactive power supply transformerless, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Documentation:									DE	German
									EN	English
									ES	Spanish
									FR	French
									GR	Greek
									IT	Italian
									PT	Portuguese
									CZ	Czech
									NL	Dutch
Country specific grid settings:									DE	Grid parameter country settings: Default setting Germany (standard)
									OF	Default setting for offgrid operation
									ZZ	Grid parameter country settings: customer specification (setting code, if available).

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

Comments

1) Can vary depending on options.



Sunny Mini Central 10000TL (SMC 10000TLRP-10) with Reactive Power Control

valid from 01.07.2011 to 31.12.2011

SMC 10000TLRP-10 (price before options):	x	0	0	x	4	1	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac,max 10000 W/10000 VA with reactive power supply transformerless, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Documentation:									DE	German
									EN	English
									ES	Spanish
									FR	French
									GR	Greek
									IT	Italian
									PT	Portuguese
									CZ	Czech
									NL	Dutch
Country specific grid settings:									DE	Grid parameter country settings: Default setting Germany (standard)
									OF	Default setting for offgrid operation
									ZZ	Grid parameter country settings: customer specification (setting code, if available).

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

Comments

1) Can vary depending on options.



Sunny Mini Central 9000TL (SMC 9000TLRP-10) with Reactive Power Control

valid from 01.07.2011 to 31.12.2011

SMC 9000TLRP-10 (price before options):	x	0	0	x	4	1	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac,max 9000 W/9000 VA with reactive power supply transformerless, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Documentation:									DE	German
									EN	English
									ES	Spanish
									FR	French
									GR	Greek
									IT	Italian
									PT	Portuguese
									CZ	Czech
									NL	Dutch
Country specific grid settings:									DE	Grid parameter country settings: Default setting Germany (standard)
									OF	Default setting for offgrid operation
									ZZ	Grid parameter country settings: customer specification (setting code, if available).

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

Comments

1) Can vary depending on options.



Sunny Mini Central 11000TL (SMC 11000TL-10)

valid from 01.07.2011 to 31.12.2011

SMC 11000TL-10 (price before options):	x	0	0	x	4	1	-	xx	xx	Solar inverter for grid feed-in P _{ac,r} /S _{ac} , max 11000 W/11000 VA transformerless, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Documentation:									DE	German
									EN	English
									ES	Spanish
									FR	French
									GR	Greek
									IT	Italian
									PT	Portuguese
									CZ	Czech
									NL	Dutch
Country specific grid settings:									DE	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
									OF	Default setting for offgrid operation
									ZZ	Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years

Comments

1) Can vary depending on options.

For the Italian market please order the SMC 11000TL-10/IT. Options are the same as the options of the SMC 11000TL-10.


Sunny Mini Central 10000TL (SMC 10000TL-10)

valid from 01.07.2011 to 31.12.2011

SMC 10000TL-10 (price before options):	x	0	0	x	4	1	-	xx	xx	Solar inverter for grid feed-in P _{ac,r} /S _{ac} , max 10000 W/10000 VA transformerless, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Documentation:									DE	German
									EN	English
									ES	Spanish
									FR	French
									GR	Greek
									IT	Italian
									PT	Portuguese
									CZ	Czech
									NL	Dutch
Country specific grid settings:									DE	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
									OF	Default setting for offgrid operation
									ZZ	Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years
Warranty extension up to 15 years
Warranty extension up to 20 years
Warranty extension up to 25 years
Comments

1) Can vary depending on options.

For the Italian market please order the SMC 10000TL-10/IT. Options are the same as the options of the SMC 10000TL-10.


Sunny Mini Central 9000TL (SMC 9000TL-10)

valid from 01.07.2011 to 31.12.2011

SMC 9000TL-10 (price before options):	x	0	0	x	4	1	-	xx	xx	Solar inverter for grid feed-in P _{ac,r} /S _{ac} , max 9000 W/9000 VA transformerless, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Documentation:									DE	German
									EN	English
									ES	Spanish
									FR	French
									GR	Greek
									IT	Italian
									PT	Portuguese
									CZ	Czech
									NL	Dutch
Country specific grid settings:									DE	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
									OF	Default setting for offgrid operation
									ZZ	Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years
Warranty extension up to 15 years
Warranty extension up to 20 years
Warranty extension up to 25 years
Comments

1) Can vary depending on options.

For the Italian market please order the SMC 9000TL-10/IT. Options are the same as the options of the SMC 9000TL-10.



Sunny Mini Central 8000TL (SMC 8000TL)

valid from 01.07.2011 to 31.12.2011

SMC 8000TL (price before options):	x	0	0	x	4	1	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac, max 8000 W/8000 VA transformerless, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Documentation:									DE	German
									EN	English
									ES	Spanish
									FR	French
									GR	Greek
									IT	Italian
									PT	Portuguese
									CZ	Czech
									NL	Dutch
Country specific grid settings:									DE	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
									OF	Default setting for offgrid operation
									ZZ	Grid parameter country settings: customer specification (setting code, if available).

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

Comments

1) Can vary depending on options.
For the Italian market please order the SMC 8000TL-IT. Options are the same as the options of the SMC 8000TL.



Sunny Mini Central 7000TL (SMC 7000TL)

valid from 01.07.2011 to 31.12.2011

SMC 7000TL (price before options):	x	0	0	x	4	1	-	xx	xx	Solar inverter for grid feed-in P _{ac,r} /S _{ac} , max 7000 W/7000 VA transformerless, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Documentation:									DE	German
									EN	English
									ES	Spanish
									FR	French
									GR	Greek
									IT	Italian
									PT	Portuguese
									CZ	Czech
									NL	Dutch
Country specific grid settings:									DE	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
									OF	Default setting for offgrid operation
									ZZ	Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years

Comments

1) Can vary depending on options.

For the Italian market please order the SMC 7000TL-IT. Options are the same as the options of the SMC 7000TL.



Sunny Mini Central 6000TL (SMC 6000TL)

valid from 01.07.2011 to 31.12.2011

SMC 6000TL (price before options):	x	0	0	x	4	1	-	xx	xx	Solar inverter for grid feed-in P _{ac,r} /S _{ac} , max 6000 W/6000 VA transformerless, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Documentation:									DE	German
									EN	English
									ES	Spanish
									FR	French
									GR	Greek
									IT	Italian
									PT	Portuguese
									CZ	Czech
									NL	Dutch
Country specific grid settings:									DE	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
									OF	Default setting for offgrid operation
									ZZ	Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years

Comments

1) Can vary depending on options.

For the Italian market please order the SMC 6000TL-IT. Options are the same as the options of the SMC 6000TL.


Sunny Boy 5000TL (SB 5000TL-20)

valid from 01.07.2011 to 31.12.2011

SB 5000TL-20 (price before options):	x	xx	4	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac, max 4600 W/ 5000 VA transformerless, graphic display, rotary switch for country settings SMA Bluetooth® communication interface, multifunction relay multi-string function, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)							
Communication:	0						Bluetooth communication interface (standard)
	1						Bluetooth wireless + RS485
Color of lid:		00					red (additional colors on request)
Documentation:						DE	German (Standard)
						EN	English
						ES	Spanish
						FR	French
						GR	Greek
						IT	Italian
						CZ	Czech
						NL	Dutch
						00	Language package (DE, EN, ES, FR, GR, IT, CZ, NL)
Country specific grid settings:						00	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
						0F	Default setting for offgrid operation
						ZZ	Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years
Warranty extension up to 15 years
Warranty extension up to 20 years
Warranty extension up to 25 years
Comments

1) Can vary depending on options.



Sunny Boy 4000TL (SB 4000TL-20)

valid from 01.07.2011 to 31.12.2011

SB 4000TL-20 (price before options):	x	xx	4	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac, max 4000 W/ 4000 VA transformerless, graphic display, rotary switch for country settings SMA Bluetooth® communication interface, multifunction relay multi-string function, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)							
Communication:	0						Bluetooth communication interface (standard)
	1						Bluetooth wireless + RS485
Color of lid:		00					red (additional colors on request)
Documentation:						DE	German (Standard)
						EN	English
						ES	Spanish
						FR	French
						GR	Greek
						IT	Italian
						CZ	Czech
						NL	Dutch
						00	Language package (DE, EN, ES, FR, GR, IT, CZ, NL)
Country specific grid settings:						00	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
						0F	Default setting for offgrid operation
						ZZ	Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years

Comments

1) Can vary depending on options.

For devices with reduced AC nominal power, please order SB 4000TL-20/V 0159. The order options are the same as for the SB 4000TL-20.


Sunny Boy 3000TL (SB 3000TL-20)

valid from 01.07.2011 to 31.12.2011

SB 3000TL-20 (price before options):	x	xx	4	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac, max 3000 W/ 3000 VA transformerless, graphic display, rotary switch for country settings SMA Bluetooth® communication interface, multifunction relay DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)							
Communication:	0						Bluetooth communication interface (standard)
	1						Bluetooth wireless + RS485
Color of lid:		00					red (additional colors on request)
Documentation:						DE	German (Standard)
						EN	English
						ES	Spanish
						FR	French
						GR	Greek
						IT	Italian
						CZ	Czech
						NL	Dutch
						00	Language package (DE, EN, ES, FR, GR, IT, CZ, NL)
Country specific grid settings:						00	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
						0F	Default setting for offgrid operation
						ZZ	Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years
Warranty extension up to 15 years
Warranty extension up to 20 years
Warranty extension up to 25 years
Comments

1) Can vary depending on options.



Sunny Boy 2100TL (SB 2100TL)

valid from 01.07.2011 to 31.12.2011

SB 2100TL (price before options):	x	0	0	x	4	x	-	xx	xx	Solar inverter for grid feed-in P _{ac,r} /S _{ac} , max 1950 W/2100 VA transformerless, text display, DC SUNCLIX terminal,
specific price 1)										
Communication:	5									without communication interface RS485 SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
ESS (DC switch):					0	1				Without With (Standard)
Documentation:								DE		German
								EN		English
								ES		Spanish
								FR		French
								CZ		Czech
								NL		Dutch
Country specific grid settings:								DE		Grid parameter country settings: Default setting Germany (standard)
								ZZ		Grid parameter country settings: customer specification (setting code, if available).

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

Comments

1) Can vary depending on options.



Sunny Boy 1600TL (SB 1600TL-10)

valid from 01.07.2011 to 31.12.2011

SB 1600TL-10 (price before options):	x	0	0	x	4	x	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac, max 1600 W/1600 VA transformerless, text display, DC SUNCLIX terminal,
specific price 1)										
Communication:	5									without communication interface RS485 SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
ESS (DC switch):					0	1				Without With (Standard)
Documentation:								DE		German
								EN		English
								ES		Spanish
								FR		French
								CZ		Czech
								NL		Dutch
Country specific grid settings:								DE		Grid parameter country settings: Default setting Germany (standard)
								ZZ		Grid parameter country settings: customer specification (setting code, if available).

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

Comments

1) Can vary depending on options.



Inverters with transformer



Sunny Mini Central 7000HV (SMC 7000HV-11)

valid from 01.07.2011 to 31.12.2011

SMC 7000HV-11 (price before options):	x	0	0	x	4	1	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac,max 6650 W/7000 VA galvanically isolated, with reactive power supply text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Documentation:									DE	German
									EN	English
									ES	Spanish
									FR	French
									GR	Greek
									IT	Italian
									PT	Portuguese
									CZ	Czech
									NL	Dutch
Country specific grid settings:									DE	Grid parameter country settings: Default setting Germany (standard)
									OF	Default setting for offgrid operation
									ZZ	Grid parameter country settings: customer specification (setting code, if available).

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

Comments

1) Can vary depending on options.



Sunny Mini Central 6000A (SMC 6000A)

valid from 01.07.2011 to 31.12.2011

SMC 6000A (price before options):	x	0	0	x	4	1	-	xx	xx	Solar inverter for grid feed-in P _{ac,r} /S _{ac} , max 6000 W/6000 VA galvanically isolated, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Documentation:									DE	German
									EN	English
									ES	Spanish
									FR	French
									GR	Greek
									IT	Italian
									PT	Portuguese
									CZ	Czech
									NL	Dutch
Country specific grid settings:									DE	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
									OF	Default setting for offgrid operation
									ZZ	Grid parameter country settings: customer specification (setting code, if available).

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

Comments

1) Can vary depending on options.

For the Italian market please order the SMC 6000A-IT. Options are the same as the options of the SMC 6000A.



Sunny Mini Central 5000A (SMC 5000A)

valid from 01.07.2011 to 31.12.2011

SMC 5000A (price before options):	x	0	0	x	4	1	-	xx	xx	Solar inverter for grid feed-in P _{ac,r} /S _{ac} , max 5000 W/5500 VA galvanically isolated, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Documentation:									DE	German
									EN	English
									ES	Spanish
									FR	French
									GR	Greek
									IT	Italian
									PT	Portuguese
									CZ	Czech
									NL	Dutch
Country specific grid settings:									DE	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
									OF	Default setting for offgrid operation
									ZZ	Grid parameter country settings: customer specification (setting code, if available).

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

Comments

1) Can vary depending on options.
For the Italian market please order the SMC 5000A-IT. Options are the same as the options of the SMC 5000A.



Sunny Mini Central 4600A (SMC 4600A)

valid from 01.07.2011 to 31.12.2011

SMC 4600A (price before options):	x	0	0	x	4	1	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac, max 4600 W/5000 VA galvanically isolated, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Documentation:									DE	German
									EN	English
									ES	Spanish
									FR	French
									GR	Greek
									IT	Italian
									PT	Portuguese
									CZ	Czech
									NL	Dutch
Country specific grid settings:									DE	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
									OF	Default setting for offgrid operation
									ZZ	Grid parameter country settings: customer specification (setting code, if available).

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

Comments

1) Can vary depending on options.



Sunny Boy 3800 (SB 3800)

valid from 01.07.2011 to 31.12.2011

SB 3800 (price before options):	x	0	0	x	4	1	-	xx	xx	Solar inverter for grid feed-in P _{ac,r} /S _{ac} , max 3800 W/3800 VA galvanically isolated, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Documentation:									DE	German
									EN	English
									ES	Spanish
									FR	French
									GR	Greek
									IT	Italian
									PT	Portuguese
									CZ	Czech
									NL	Dutch
Country specific grid settings:									DE	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
									OF	Default setting for offgrid operation
									ZZ	Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years

Comments

1) Can vary depending on options.

For the Italian market please order the SB 3800-IT. Options are the same as the options of the SB 3800.

For devices with reduced AC nominal power (3680W), please order SB 3800/V 0153. The order options are the same as for the SB 3800.



Sunny Boy 3300 (SB 3300)

valid from 01.07.2011 to 31.12.2011

SB 3300 (price before options):	x	0	0	x	4	1	-	xx	xx	Solar inverter for grid feed-in P _{ac,r} /S _{ac} , max 3300 W/3600 VA galvanically isolated, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Documentation:									DE	German
									EN	English
									ES	Spanish
									FR	French
									GR	Greek
									IT	Italian
									PT	Portuguese
									CZ	Czech
									NL	Dutch
Country specific grid settings:									DE	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
									OF	Default setting for offgrid operation
									ZZ	Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years

Comments

1) Can vary depending on options.

For the Italian market please order the SB 3300-IT. Options are the same as the options of the SB 3300.


Sunny Boy 3000HF (SB 3000HF-30)

valid from 01.07.2011 to 31.12.2011

SB 3000HF-30 (price before options):	x	xx	x	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac, max 3000 W/ 3000 VA galvanically isolated graphic display, rotary switch for country settings SMA Bluetooth® communication interface, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)							
Communication:	0 1						Bluetooth communication interface (standard) RS485 and multi-function relay
Color of lid:		00					red (additional colors on request)
Grounding:			0 1 2 3				without grounding kit (standard) with grounding kit, without default setting with grounding kit, negative grounding by default with grounding kit, positive grounding by default
Documentation:					DE EN ES FR GR IT PT CZ NL 00		German English Spanish French Greek Italian Portuguese Czech Dutch Language package (DE, EN, ES, FR, GR, IT, CZ, NL, PT)
Country specific grid settings:						00 0F ZZ	Grid parameter country settings: Default Setting VDE0126-1-1 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years
Warranty extension up to 15 years
Warranty extension up to 20 years
Warranty extension up to 25 years
Comments

1) Can vary depending on options.



Sunny Boy 3000 (SB 3000)

valid from 01.07.2011 to 31.12.2011

SB 3000 (price before options):	x	0	x	4	1	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac, max 2750 W/3000 VA galvanically isolated, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)									
Communication:	5								without communication interface
	8								RS485
	B								SMA Bluetooth® Piggy-Back
Color of lid:		0							red (additional colors on request)
Documentation:								DE	German
								EN	English
								ES	Spanish
								FR	French
								GR	Greek
								IT	Italian
								PT	Portuguese
								CZ	Czech
								NL	Dutch
Country specific grid settings:								DE	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
								OF	Default setting for offgrid operation
								ZZ	Grid parameter country settings: customer specification (setting code, if available).

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

Comments

1) Can vary depending on options.
For the Italian market please order the SB 3000-IT. Options are the same as the options of the SB 3000.


Sunny Boy 2500HF (SB 2500HF-30)

valid from 01.07.2011 to 31.12.2011

SB 2500HF-30 (price before options):	x	xx	x	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac, max 2500 W/ 2500 VA galvanically isolated graphic display, rotary switch for country settings, SMA Bluetooth® communication interface, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)							
Communication:	0 1						Bluetooth communication interface (standard) Bluetooth wireless + RS485
Color of lid:		00					red (additional colors on request)
Grounding:			0 1 2 3				without grounding kit (standard) with grounding kit, without default setting with grounding kit, negative grounding by default with grounding kit, positive grounding by default
Documentation:					DE EN ES FR GR IT PT CZ NL 00		German English Spanish French Greek Italian Portuguese Czech Dutch Language package (DE, EN, ES, FR, GR, IT, CZ, NL, PT)
Country specific grid settings:					00 0F ZZ		Grid parameter country settings: Default Setting VDE0126-1-1 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years
Warranty extension up to 15 years
Warranty extension up to 20 years
Warranty extension up to 25 years
Comments

1) Can vary depending on options.



Sunny Boy 2500 (SB 2500)

valid from 01.07.2011 to 31.12.2011

SB 2500 (price before options):	x	0	x	4	1	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac, max 2300 W/2500 VA galvanically isolated, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)									
Communication:	5								without communication interface
	8								RS485
	B								SMA Bluetooth® Piggy-Back
Color of lid:		0							red (additional colors on request)
Documentation:								DE	German
								EN	English
								ES	Spanish
								FR	French
								GR	Greek
								IT	Italian
								PT	Portuguese
								CZ	Czech
								NL	Dutch
Country specific grid settings:								DE	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
								OF	Default setting for offgrid operation
								ZZ	Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years

Comments

1) Can vary depending on options.

For the Italian market please order the SB 2500-IT. Options are the same as the options of the SB 2500.



Sunny Boy 2000 HF (SB 2000 HF-30)

valid from 01.07.2011 to 31.12.2011

SB 2000HF-30 (price before options):	x	xx	x	-	xx	xx	Solar inverter for grid feed-in Pac,r/Sac, max 2000 W/ 2000 VA galvanically isolated graphic display, rotary switch for country settings SMA Bluetooth® communication interface, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)							
Communication:	0 1						Bluetooth communication interface (standard) Bluetooth wireless + RS485
Color of lid:		00					red (additional colors on request)
Grounding:			0 1 2 3				without grounding kit (standard) with grounding kit, without default setting with grounding kit, negative grounding by default with grounding kit, positive grounding by default
Documentation:					DE EN ES FR GR IT PT CZ NL 00		German English Spanish French Greek Italian Portuguese Czech Dutch Language package (DE, EN, ES, FR, GR, IT, CZ, NL, PT)
Country specific grid settings:					00 0F ZZ		Grid parameter country settings: Default Setting VDE0126-1-1 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years

Comments

1) Can vary depending on options.



Sunny Boy 1700 (SB 1700)

valid from 01.07.2011 to 31.12.2011

SB 1700 (price before options):	x	0	0	x	4	1	-	xx	xx	Solar inverter for grid feed-in P _{ac,r} /S _{ac} , max 1550 W/1700 VA galvanically isolated, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Documentation:									DE	German
									EN	English
									ES	Spanish
									FR	French
									GR	Greek
									IT	Italian
									PT	Portuguese
									CZ	Czech
									NL	Dutch
Country specific grid settings:									DE	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
									OF	Default setting for offgrid operation
									ZZ	Grid parameter country settings: customer specification (setting code, if available).

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

Comments

1) Can vary depending on options.



Sunny Boy 1200 (SB 1200)

valid from 01.07.2011 to 31.12.2011

SB 1200 (price before options):	x	x	4	-	xx	xx	Solar inverter for grid feed-in P _{ac,r} /S _{ac} , max 1200 W/1200 VA galvanically isolated, text display, DC SUNCLIX terminal, incl. Electronic Solar Switch (ESS)
specific price 1)							
Communication:	5						without communication interface RS485 SMA Bluetooth® Piggy-Back
Color of lid:		0					red (additional colors on request)
Documentation:						DE EN ES FR GR IT PT CZ NL	German English Spanish French Greek Italian Portuguese Czech Dutch
Country specific grid settings:						DE OF ZZ	Grid parameter country settings: Default Setting VDE0126-1-1 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years

Comments

1) Can vary depending on options.



Sunny Boy/Sunny Mini Central Demo

SBX Dummy Sunny Boy 3300/3800 Demo, no function

SMCX-Dummy Sunny Mini Central SMC x000TL, SMC x000A, SMC 7000 HV-11 Demo, no function

SB 3000HF-3Y (price before options):	x	xx	x	Demo device Sunny Boy 2000HF-30/2500HF-30/3000HF-30
Device type:	0			Typ: Sunny Boy 2000HF
	1			Typ: Sunny Boy 2500HF
	2			Typ: Sunny Boy 3000HF
Color of lid:		00		red (additional colors on request)
		0		only enclosure with display, no function
		1		only enclosure with display, animated

SB 5000TL-2Y (price before options):	x	xx	x	Demo device Sunny Boy 3000TL-20/4000TL-20/5000TL-20
Device type:	0			Typ: Sunny Boy 4000TL
	1			Typ: Sunny Boy 5000TL
	2			Typ: Sunny Boy 3000TL
Color of lid:		00		red (additional colors on request)
		0		only enclosure with display, no function
		1		only enclosure with display, animated

SB 5000TL-2Z (price before options):	x	xx	x	Demo device Sunny Boy 3000TL-21/4000TL-21/5000TL-21
Device type:	0			Typ: Sunny Boy 4000TL-21
	1			Typ: Sunny Boy 5000TL-21
	2			Typ: Sunny Boy 3000TL-21
Color of lid:		00		red (additional colors on request)
		0		only enclosure with display, no function
		1		only enclosure with display, animated

STP 17000TL-1Y (price before options):	x	xx	x	Demo device STP 8000TL-10, STP 10000TL-10, 12000TL-10, 15000TL-10, 17000TL-10
Device type:	0			Typ: Sunny Tripower 10000TL
	1			Typ: Sunny Tripower 12000TL
	2			Typ: Sunny Tripower 15000TL
	3			Typ: Sunny Tripower 17000TL
	4			Typ: Sunny Tripower 8000TL
Color of lid:		00		blue (additional colors on request)
		0		only enclosure with display, no function

Stand system Stand system for Sunny Boy/Sunny Mini Central Demo



Communication interfaces

485PB-NR

- RS485 interface as upgrade kit
- SB/SWR/WB 700
- SB/SWR/WB 1100 (E) (LV)
- SB 1200
- SB/SWR/WB 1700 (E)
- SWR 2000
- SB 2100TL
- SB 1600TL-10
- SB/SWR/WB 2500
- SB/WB 2800i
- SB/SWR/WB 3000
- SB/WB 3300 (-11)
- SB/WB 3800 (-11)
- SB 3300TL (HC)
- SB 4200TL (HC)
- SB 5000TL (HC) (W)

485PB-SMC-NR

- RS485 interface as upgrade kit
- SMC/WB 4600A (-11)
- SMC/WB 5000 (A) (A-11)
- SMC/WB 6000 (A) (A-11)
- SMC 7000HV
- SMC 7000HV-11
- SMC 6000TL
- SMC 7000TL
- SMC 8000TL
- SMC 9000TL-10
- SMC 10000TL-10
- SMC 11000TL-10
- SMC 9000TLRP-10
- SMC 10000TLRP-10
- SMC 11000TLRP-10



BTPBINV-NR (price before options):	xx SMA Bluetooth® Piggy-Back for upgrading SMA inverters
Device type:	SB/WB 700 SB/WB 1100 (E) (LV) SB 1200 SB/WB 1700 (E) SB 2100TL SB 1600TL-10 SB/WB 2500 SB/WB 2800i SB/WB 3000 SB/WB 3300 (-11) SB/WB 3800 (-11) SB 3300TL (HC) SB 4200TL (HC) SB 5000TL (HC) SMC/WB 4600A (-11) SMC/WB 5000 (A) (A-11) SMC/WB 6000 (A) (A-11) SMC 7000HV (-11) SMC 6000TL/7000TL/8000TL SMC 9000TL-10/10000TL-10/11000TL-10 SMC 9000TLRP-10/10000TLRP-10/11000TLRP-10
Documentation:	AU Australia (Documentation: English) BE Belgium (Documentation: German, Dutch, French) CZ Czech Republic (Documentation: Czech) DE Germany (Documentation: German) ES Spain (Documentation: Spanish) FR France (Documentation: French) GB Great Britain (Documentation: English) GR Greece (documentation: Greek) IT Italy (Documentation: Italian) KR Korea (Documentation: Korean) NL Netherlands (Documentation: Dutch) PT Portugal (Documentation: Portuguese) US USA (Documentation: English)
BTPB-EXTANT-NR (price before options):	xx SMA Bluetooth® Piggy-Back Plus with external antenna
Device type:	SB/WB 700 SB/WB 1100 (E) (LV) SB 1200 SB/WB 1700 (E) SB 2100TL SB 1600TL-10 SB/WB 2500 SB/WB 2800i SB/WB 3000 SB/WB 3300 (-11) SB/WB 3800 (-11) SB 3300TL (HC) SB 4200TL (HC) SB 5000TL (HC) SMC/WB 4600A (-11) SMC/WB 5000 (A) (A-11) SMC/WB 6000 (A) (A-11) SMC 7000HV (-11) SMC 6000TL/7000TL/8000TL SMC 9000TL-10/10000TL-10/11000TL-10 SMC 9000TLRP-10/10000TLRP-10/11000TLRP-10
Documentation:	AU Australia (Documentation: English) BE Belgium (Documentation: German, Dutch, French) CZ Czech Republic (Documentation: Czech) DE Germany (Documentation: German) ES Spain (Documentation: Spanish) FR France (Documentation: French) GB Great Britain (Documentation: English) GR Greece (documentation: Greek) IT Italy (Documentation: Italian) KR Korea (Documentation: Korean) NL Netherlands (Documentation: Dutch) PT Portugal (Documentation: Portuguese)

**DM-485CB-10**

RS485 interface as upgrade kit

SB 3000TL-20

SB 4000TL-20

SB 5000TL-20

SB 3000TL-21

SB 4000TL-21

SB 5000TL-21

STP 8000TL-10

STP 10000TL-10

STP 12000TL-10

STP 15000TL-10

STP 17000TL-10

485QM-10-NR

RS485 - Quick Module as upgrade kit with RS485 interface and multi-function relay for:

SB 2000HF-30

SB 2500HF-30

SB 3000HF-30



Communication socket

SB-RS232-NR	Plug/socket combination for RS232 communication upgrade kit as article SB-RS232 for assembly by the customer
SB-RS485	Plug (2 pc.)/socket combination for RS485 communication incl. Termination resistor (1 termination resistor per bus system) assembly into Sunny Boy inverter free of charge ex works
SB-RS485-NR	Plug (2 pc.)/socket combination for RS485 communication incl. Termination resistor (1 termination resistor per bus system) upgrade kit as article SB-RS485 for assembly by the customer
SWR-SK	12 m data cable for RS232 interface (D-Sub socket 9-pin/ connector sleeves)

Power Balancer

PBL-YCABLE-10	Power Balancer connecting cable (2 x 2 m) with SMC 9000TL-10, SMC 10000TL-10, SMC 11000TL-10 SMC 900TLRP-10, SMC 10000TLRP-10, SMC 11000TLRP-10
PBL-SMC-10-NR	Refit set for the modification of a Sunny Mini Central with a SMA Power Balancer to a SMA Power Balancer plug system

DC Connection

SUNCLIX-FC6-SET	SUNCLIX field connector for cross-sections from 2.5 to 6 mm ² , Set (+/-) for 10 strings
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Grounding

ESHV-P-NR

Refit set for the positive connection to ground of the DC input for: SB 700, SB 1100, SB1200, SB 1100LV, SB 1700, SB 2500, SB 2800i, SB 3000, SB 3300, SB 3800, SMC 4600A, SMC 5000, SMC 6000, SMC 5000A, SMC 6000A, SMC 7000HV, SMC 7000HV-11

ESHV-N-NR

Refit set for the negative connection to ground of the DC input for: SB 700, SB 1100, SB1200, SB 1100LV, SB 1700, SB 2500, SB 2800i, SB 3000, SB 3300, SB 3800, SMC 4600A, SMC 5000, SMC 6000, SMC 5000A, SMC 6000A, SMC 7000HV, SMC 7000HV-11

PLUGIN-GRD-10-NR

SMA Plug-in Grounding as an upgrade kit (Stick) for the positive or negative connection to ground of the DC input for: SB 2000HF-30, SB 2500HF-30, SB 3000 HF-30

**Protection and fuse elements**

FUSEKIT 8A-NR	Refit set with 5 pc. 8 A fuses incl. fuse protection for: SMC 9000TL-10/SMC 10000TL-10/SMC 11000TL-10 SMC 10000TLRP-10, SMC 11000TL-10, SMC 11000TLRP-10
FUSEKIT 10A-NR	Refit set with 5 pc. 10 A fuses incl. fuse protection for: SMC 9000TL-10/SMC 10000TL-10/SMC 11000TL-10 SMC 10000TLRP-10, SMC 11000TL-10, SMC 11000TLRP-10
FUSEKIT 12A-NR	Refit set with 5 pc. 12 A fuses incl. fuse protection for: SMC 9000TL-10/SMC 10000TL-10/SMC 11000TL-10 SMC 10000TLRP-10, SMC 11000TL-10, SMC 11000TLRP-10
FUSEKIT 16A-NR	Refit set with 5 pc. 16 A fuses incl. fuse protection for: SMC 9000TL-10/SMC 10000TL-10/SMC 11000TL-10 SMC 10000TLRP-10, SMC 11000TL-10, SMC 11000TLRP-10
FUSEKIT 20A-NR	Refit set with 5 pc. 20 A fuses incl. fuse protection for: SMC 9000TL-10/SMC 10000TL-10/SMC 11000TL-10 SMC 10000TLRP-10, SMC 11000TL-10, SMC 11000TLRP-10
DC_SPD_KIT1-10	Upgrade kit DC overvoltage protector (type II) for input A Fits for: STP 8000TL-10, STP 1000TL-10, STP 12000TL-10, STP 15000TL-10, STP 17000TL-10
DC_SPD_KIT2-10	Upgrade kit DC overvoltage protector (type II) for input A and B Fits for: STP 8000TL-10, STP 1000TL-10, STP 12000TL-10, STP 15000TL-10, STP 17000TL-10



Service Products

USBPBS

USB service interface with a 1,5 m cable and a USB port for a PC connection

Not applicable in SB 2000HF-30, SB 2500HF-30, SB 3000HF-30, SB 3000TL-20, SB 4000TL-20, SB 5000TL-20, SB 3000TL-21, SB 4000TL-21, SB 5000TL-21, Sunny Tripower



Spare parts



Communication interfaces

232PB-NR

RS232 interface as upgrade kit
 SB/SWR/WB 700
 SB/SWR/WB 1100 (E) (LV)
 SB/SWR/WB 1700 (E)
 SWR 2000
 SB 2100TL
 SB/SWR/WB 2500
 SB/WB 2800i
 SB/SWR/WB 3000
 SB/WB 3300
 SB/WB 3800

232PB-MS-NR

RS232 interface as upgrade kit
 SB 3300TL (HC)
 SB 4200TL (HC)
 SB 5000TL (HC) (W)

BEAMPB-NR

Radio Piggy-Back for upgrading a Sunny Boy or Sunny Mini Central for communication with Sunny Beam, incl. Antenna, coax cable and metal PG fitting

Installation in a SWR 1500 or SWR 2000 requires the SBEAMPB-ISO-NR. Please order accordingly.

Not applicable in SB 2000HF-30, SB 2500HF-30, SB 3000HF-30,
 SB 3000TL-20, SB 4000TL-20, SB 5000TL-20, SB 3000TL-21,
 SB 4000TL-21, SB 5000TL-21, Sunny Tripower

BEAMPBU-NR

Radio Piggy-Back for upgrading a Sunny Boy or Sunny Mini Central for communication with Sunny Beam, incl. Antenna, coax cable and metal PG fitting. Australian version

Not applicable in SB 2000HF-30, SB 2500HF-30, SB 3000HF-30,
 SB 3000TL-20, SB 4000TL-20, SB 5000TL-20, SB 3000TL-21,
 SB 4000TL-21, SB 5000TL-21, Sunny Tripower

SBEAMPB-ISO-NR

Adapter for upgrading with BEAMPB-NR for the SWR 1500 or SWR 2000

Display Refitting Kit

For inverters shipped from 02/2005 onward:

Please order SWR-Display-NR or SB-Display-NR for display retrofitting (see below)

SWR-DISPLAY-NR

Spare display board for Sunny Boy SWR inverters

SB-DISPLAY-NR

Spare display board for Sunny Boys of type SB and SMC



SWR-Display (price before options):	x	x	x	Display lid with 2-line LCD
Device type:	0			for SWR 700
	1			for SWR 850
	2			for SWR 850 E
	3			for SWR 1100 E
	4			for SWR 1500
	5			for SWR 2000
	6			for SWR 2500
	7			for SWR 3000
	8			for SWR 1700
	9			for SWR 1700 E
Color of lid:	0			red
	2			blue
	3			yellow
Default setting:		0		german
		1		english

SB-Display (price before options):	x	x	x	Display lid with 2-line LCD
Device type:	0			for SB 2100 TL
	1			for SB 2500
	2			for SB 3000
Color of lid:	0			red
	2			blue
	3			yellow
Default setting:		0		german
		1		english
		2		spanish
		3		french

MS-Display (price before options):	x	x		Multi-String display lid with 2-line LCD
Color of lid:	0			red
	2			blue
	3			yellow
Default setting:		0		german
		1		english
		2		spanish
		3		french

**ESS handles**

ESS-HANDLE:01 ESS handle replacement part for: SB 1100, SB 1200, SB 1600TL-10, SB 1700, SB 2100TL, SB 2500, SB 3000

ESS-HANDLE:02 ESS handle as spare part for: SB 3300 (-11), SB 3800 (-11)

ESS-HANDLE:03 ESS handle replacement part for: SB 3300TL HC, SB 4200TL HC, SB 5000TL HC

ESS-HANDLE:04 ESS handle replacement part for: SMC 4600A (-11), SMC 5000A (-11), SMC 6000A (-11), SMC 6000TL, SMC 7000TL, SMC 7000HV, SMC 7000HV-11, SMC 8000TL, SMC 9000TL-10, SMC 9000TLRP-10, SMC 10000TL-10, SMC 10000TLRP-10, SMC 11000TL-10, SMC 11000TLRP-10

ESS-HANDLE:05 ESS handle replacement part for: SB 3000TL-20, SB 4000TL-20, SB 5000TL-20

ESS-HANDLE:06 ESS handle replacement part for: STP 8000TL-10, STP 10000TL-10, STP 12000TL-10, STP 15000TL-10, STP 17000TL-10

ESS-HANDLE:07 ESS handle as replacement part (with fan) for: SB 2000HF-30, SB 2500HF-30, SB 3000 HF-30



When placing an order, please always indicate the serial number of the inverter.



Grounding

KLKD-1 Spare fuses for grounding set PLUGIN-GRD-10-NR, 1 A, 600V, 10 pc.

Miscellaneous

45-7202 Handle cover set, "right" and "left", as replacement parts
for: SB 3300 (-11), SB 3800 (-11), SMC 4600A (-11), SMC 5000A (-11), SMC 6000A (-11),

SMC 6000TL, SMC 7000HV, SMC 7000HV-11, SMC 7000TL,
SMC 8000TL, SMC 9000TL-10, SMC 10000TL-10, SMC 11000TL-10
SMC 9000TLRP-10, SMC 10000TLRP-10, SMC 11000TLRP-10

45-10899080 Handle cover set, "right" and "left", as replacement parts

for: STP 8000TL-10, STP 10000TL-10, STP 12000TL-10, STP 15000TL-10, STP 17000TL-10



Varistors

SWR-TV 1	Set of thermally monitored varistors (2 pc.) for: SWR 700, SWR 850
SWR-TV 2	Set of thermally monitored varistors (2 pc.) for: SWR 850E, SWR 1700
SWR-TV 3	Set of thermally monitored varistors (2 pc.) for: SWR 1100E, SWR 1700E
SWR-TV 4	Set of thermally monitored varistors (2 pc.) for: SWR 1500, SWR 2000, SWR 2500, SWR 3000
SB-TV 1	Set of thermally monitored varistors (2 pc.) for: SB 700 incl. insertion tool SB-TVWZ
SB-TV 3	Set of thermally monitored varistors (2 pc.) for: SB 1100, SB 1200, SB 1700 incl. insertion tool SB-TVWZ
SB-TV 4	Set of thermally monitored varistors (2 pc.) for: SB 1600TL-10, SB 2100TL, SB 2500, SB 2800i, SB 3000, SB 3000TL-20, SB 3300 (-11), SB 3800 (-11), SMC 4600A (-11), SMC 5000, SMC 5000A (-11), SMC 6000, SMC 6000A (-11) incl. insertion tool SB-TVWZ
MSWR-TV 5	Set of thermally monitored varistors (6 pc.) for: SB 5000 TL, SB 5000 TL W incl. insertion tool SB-TVWZ
MSWR-TV 6	Set of thermally monitored varistors (4 pc.) for: SB 4200TL, SB 4200TL HC, SB 5000TL HC, incl. insertion tool SB-TVWZ
MSWR-TV 7	Set of thermally monitored varistors (2 pc.) für: SB 3300TL, SB 3300TL HC SB 2000HF-30, SB 2500HF-30, SB 3000HF-30 SMC 6000TL, SMC 7000HV, SMC 7000 HV-11, SMC 7000TL, SMC 8000TL, SMC 9000TL-10, SMC 10000TL-10, SMC 11000TL-10, SMC 9000TLRP-10, SMC 10000TLRP-10, SMC 11000TLRP-10 incl. insertion tool SB-TVWZ
MSWR-TV 8	Set of thermally monitored varistors (3 pc.) for: SB 3000TL-20, SB 4000TL-20, SB 5000TL-20 incl. insertion tool SB-TVWZ



STP-TV9	Set of thermally monitored varistors (3 pc.) for: STP 8000TL-10, STP 10000TL-10 , STP 12000TL-10 , STP 15000TL-10, STP 17000TL-10
SB-TVWZ	Insertion tool for varistor sets of types SB-TV1, SB-TV3, SB-TV4, MSWR-TV5, MSWR-TV6, MWSWR-TV7, MSWR-TV8
STP-TVWZ	Insertion tool for varistor sets Type STP-TV9

Lids for Sunny Boys / Sunny Mini Centrals / Sunny Tripower

INVERTERLID-01	Lid for: SB 700,SB 1100 (small)
INVERTERLID-02	Lid for: SB 1100 (large),SB 1200, SB1600 TL-10, SB 1700, SB 2100TL, SB 2500, SB 3000
INVERTERLID-03	Lid for: SB 3300 (-11), SB 3800 (-11), SB 3000US, SB 3800-US-10, SB 4000US
INVERTERLID-04	Lid for: SB 3300TL, SB 3300TL HC, SB 4000TL, SB 4000TL HC, SB 5000TL, SB 5000TL HC, SB 5000TLW
INVERTERLID-05	Lid for: SMC 5000, SMC 6000
INVERTERLID-06	Lid for: SMC 4600A (-11), SMC 5000A (-11), SMC 6000A (-11), SMC 6000TL, SMC 7000HV, SMC 7000HV-11, SMC 7000TL, SMC 8000TL,SMC 9000TL-10, SMC 10000TL-10, SMC 11000TL-10, SMC 9000TLRP-10, SMC 10000TLRP-10, SMC 110000TLRP-10, SB 5000US, SB 6000US, SB 7000US, SB 8000US, SB 8000TLUS-10, SB 9000TLUS-10, SB 10000TLUS-10
INVERTERLID-07	Lid for: SB 2800i
INVERTERLID-08	Lid for: SB 3000TL-20, SB 4000TL-20, SB 5000TL-20
INVERTERLID-09	Lid for: Connection area SB 3000 TL-20/SB 4000 TL-20/SB 5000TL-20
INVERTERLID-10	Lid for: SB 2000HF-30, SB 2500HF-30, SB 3000HF-30
INVERTERLID-11	Lid for: STP 8000TL-10, STP 10000TL-10, STP 12000TL-10, STP 15000TL-10, STP 17000TL-10
INVERTERLID-12	Lid for: Connection area STP 8000TL-10, STP 10000TL-10, STP 12000TL-10, STP 15000TL-10, STP 17000TL-10

Sunny Tower





Sunny Tower

valid from 01.07.2011 to 31.12.2011

Sunny Tower (price before options):	x	x	x	x	x	x	Mounting rack for 3 or 6 SMC xx000TL or SMC x000A, pre-wired, including AC distribution with one 50 A circuit breaker per device, including bottom plate
Cabling on the AC side:	0						Pre-wired <= 8 kW on the AC side for 3 Sunny Mini Centrals
	1						Pre-wired <= 8 kW on the AC side for 6 Sunny Mini Centrals
	2						AC-side for custom tailored inverter fitting pre wired (with AC distribution, without fuses)
	3						Pre-wired on the AC side for 3 Sunny Mini Centrals > 8 kW
	4						Pre-wired on the AC side for 6 Sunny Mini Centrals > 8 kW
	5						Pre-wired on the AC side for 3 Sunny Mini Centrals <= 8 kW and for 3 Sunny Mini Centrals > 8 kW
Communication:	0						Without communication
	1						Pre-wired for RS485 communication
	2						Pre-wired for RS485 communication with Sunny WebBox Outdoor (incl. Ethernet)
AUX COM:	0						without Modem
	3						Modem analog *2)
	5						Modem GSM *2)
	6						MODEM GSM incl. SIM card *2) *3)
Memory Card:	0						none
	1						128 MB SD-card *2)
	2						512 MB SD-card *2)
	3						1 GB MB SD-card *2)
	4						2 GB MB SD-card *2)
Power Balancer:	0						without Power Balancer pre wiring
	1						with Power Balancer pre wiring
Language:	0						German
	1						English
	2						Spanish
	4						Italian

Comments

*2) The options AUXCOM and Datea storage are Sunny WebBox options and can only be ordered in case the Sunny Tower was ordered with the Sunny WebBox

*3) Notice: T-Mobile card contract only available for Germany

Turnkey systems (also country specific e.g. UL listed) available upon request.



Accessories



- ADAP-ST6-01** Adapter plate for: Sunny Boy SB 3300/SB 3800
- ADAP-ST6-02** Adapter plate for: Sunny Boy SB 1100/SB 1700/SB 2100TL/SB 2500/SB 3000
- ADAP-ST6-04** Adapter plate for: Sunny Boy SB 3300TL HC/SB 4200TL HC/SB 5000TL HC

Backup Systems





Sunny Backup 2200 (SBU 2200)

valid from 01.07.2011 to 31.12.2011

SBU 2200 (price before options):	x	x	x	0	x	Bidirectional battery inverter for backup operation, output voltage: 230 VAC/50 Hz, nominal power: 2.2 kW, battery voltage: 24 VDC, external battery temperature sensor
Communication:	0					Without communication
	4					RS485
User interface:		0				With SRC-1 user interface, SD card, connection cable
		1				No Sunny Remote Control (SRC-1) user interface
Battery fuse:			0			With battery fuse (BATFUSE-A. 01) type NH00 with 125 A and 2 x 2 m connection lead (35 mm ²) between the fuse and the SBU 2200
			1			No battery fuse (BATFUSE-A. 01)
Language:					DE	German
					EN	English
					GR	Greek

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years



NOTICE!
The SBU 2200 can only be operated with an AS-Box

Sunny Backup 5000 (SBU 5000)

valid from 01.07.2011 to 31.12.2011

SBU 5000 (price before options):	x	0	x			Bidirectional battery inverter for backup operation, output voltage: 230 VAC/50 Hz, nominal power: 5.0 kW, battery voltage: 48 VDC, external battery temperature sensor, SD/MMC card, 1 x 5 m synchronization cable
Communication:	0					Without communication
	4					RS485
Language:					DE	German
					EN	English
					GR	Greek

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years



NOTICE!
The SBU 5000 can only be operated with an AS-Box



Sunny Backup Demo

SBU-2200Dummy Sunny Backup 2200 Demo, no function

SBU-5000Dummy Sunny Backup 5000 Demo, no function

Stand system Stand system for Sunny Backup Demo

Battery

valid from 01.07.2011 to 31.12.2011

SBU-BAT.24-140 (price before options):	x	x	0	Sunny Backup battery for SBU 2200 (24 V, 142 Ah, 3,4 kWh),sealed, maintenance-free AGM battery,type power.com SB, 2 blocks with 12 V each
Battery connection:	0			Battery connection cable 2 x 2 m, 35 mm ² with crimped cable shoes for connection of the battery with battery fuse
Rack:	0			Without rack
	1			With steel rack

valid from 01.07.2011 to 31.12.2011

SBU-BAT.48-140 (price before options):	x	x	0	Sunny Backup battery for SBU 5000 (48 V, 142 Ah 6.8 kWh),sealed, maintenance-free AGM battery, type power.com SB, 4 blocks with 12 V each
Battery connection:	1			Battery connection cable 2 x 3 m, 70 mm ² ,double insulation, with crimped cable shoes
	2			Battery connection cable 2 x 6 m, 70 mm ² ,double insulation, with crimped cable shoes
	3			Battery connection cable 2 x 9 m, 70 mm ² ,double insulation, with crimped cable shoes
Rack:	0			Without rack
	1			With steel rack



Switching unit/automatic switch box for TT and TN grids

valid from 01.07.2011 to 31.12.2011

AS-BOX-M-20 (price before options):	1	0	x	x	1-phase automatic switching unit for TT and TN grounding systems, consumer power 7.4 kW/32 A, PV power 5.7 kW/25 A, connection for 1 SBU 5000, PV array connection 7.4 kW/32 A, 1 x 5 m synchronization cable, 1 x 5 m communication cable from SBU 5000 to AS-BOX
Documentation:			DE		German
			EN		English
			GR		Greek
Voltage range				0	Voltage: 220 V/ 230 V (187 V to 253 V)
				1	Voltage: 230 V/ 240 V (195,5 V to 260 V)

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

valid from 01.07.2011 to 31.12.2011

AS-BOX-L-20 (price before options):	1	0	x	x	3-phase automatic switching unit for TT and TN grounding systems, consumer power 35 kW/3 x 50 A, PV power 28 kW/3 x 40 A, connection for 3 SBU 5000, PV array connection 28 kW/3 x 40 A, 1 x 5 m synchronization cable, 3 x 5 m communication cable from SBU 5000 to AS-BOX
Documentation:			DE		German
			EN		English
			GR		Greek
Voltage range				0	Voltage: 220 V/ 230 V (187 V to 253 V)
				1	Voltage: 230 V/ 240 V (195,5 V to 260 V)

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years



Switching unit/automatic switch box for TN grids only

valid from 01.07.2011 to 31.12.2011

<p>AS-BOX-S.1 (price before options):</p>	<p>0 0</p>				<p>1-phase automatic switching unit only for TN grounding systems, consumer power 5.8 kW/25 A, PV power 4.6 kW/20 A, connection for 1 SBU 2200, 2 x 5 m communication cable from SBU 2200 to AS-BOX-S</p>
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Warranty extension up to 10 years
Warranty extension up to 15 years
Warranty extension up to 20 years
Warranty extension up to 25 years

valid from 01.07.2011 to 31.12.2011

<p>AS-BOX-XL (price before options):</p>	<p>1 0</p>	<p>x x</p>	<p>x x</p>		<p>3-phase automatic switching unit only for TN grounding systems, consumer power 110 kW/3 x 160 A, PV power 110 kW/3 x 160 A, connection for 12 SBU 5000, PV array connection 110 kW/3 x 160 A, 1 x 5 m synchronization cable, 3 x 5 m communication cable from SBU 5000 to AS-BOX</p>
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<p>MC Piggy-Back:</p>		<p>0 2 3 4</p>			<p>Without Multicluster-PB 2 Clusters incl. 2 x Multicluster-Piggy-Back (CAN and RS485 bus) for SBU 5000, 2 x 5 m communication cable 3 Clusters (3 Multicluster Piggy-Back, 3 cables) 4 Clusters (4 Multicluster Piggy-Back, 4 cables)</p>
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<p>Documentation:</p>			<p>DE EN GR</p>		<p>German English Greek</p>
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<p>Voltage range</p>				<p>0 1</p>	<p>0 Voltage: 220 V/ 230 V (187 V to 253 V) 1 Voltage: 230 V/ 240 V (195,5 V to 260 V)</p>
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Warranty extension up to 10 years
Warranty extension up to 15 years
Warranty extension up to 20 years
Warranty extension up to 25 years



Sunny Backup Systems



Sunny Backup Systems for use in TT and TN grids

A typical Sunny Backup System M for TT and TN grids is made up of the following components:

- 1 x Battery inverter Sunny Backup 5000,
Order code example: SBU 5000:00DE
- 1 x Switching unit AS-Box M-20 for TT and TN grounding systems (with PV array connection),
Order code example: AS-Box M-20: 10DE0
- 1 x Sunny Backup battery incl. battery connection cable,
order code example: SBU-BAT48-140:100

The total price for system M as specified above for TT and TN grids is



The order codes given above are only examples. The ultimate order code will be specified via the configuration of the individual products (e.g. Sunny Backup 5000 or AS box-M-20)

A typical Sunny Backup System L for TT and TN grids is made up of the following components:

- 3 x Battery inverter Sunny Backup 5000,
Order code example: SBU 5000:00DE
- 1 x Switching unit AS-Box L-20 for TT and TN grounding systems (with PV array connection),
Order code example: AS-Box L-20: 10DE0
- 2 x Sunny Backup battery incl. battery connection cable,
order code example: SBU-BAT48-140:100
- 1 x DC distributor SBU-CON.33 incl. DC cable,
Order code example: SBU-CON.33: 20

The total price for system L as specified above for TT and TN grids is



The order codes given above are only examples. The ultimate order code will be specified via the configuration of the individual products (e.g. Sunny Backup 5000 or AS box L-20)



Sunny Backup systems only for TN grounding systems

valid from 01.07.2011 to 31.12.2011

SBU-SET-S.1 (price before options):	x	x	0	x	x	Sunny Backup Set S only for TN grounding systems, consumer power 5.8 kW/25 A PV power 4.6 kW/20 A backup power 2.9 kW for 30 min, 1 x SBU 2200, 1 x AS-Box S.1, control unit SRC-1, DC fuse BATFUSE-A.01 incl. all necessary communication cables
Communication:	0					Without communication RS485
Language:		DE				German
		EN				English
		GR				Greek
Battery:				0		1 x Sunny Backup battery SBU-BAT 24 V/142 Ah, battery 3,4 kWh,incl. 2 x 2 m ² battery connection cable 35 mm ²
				1		2 x Sunny Backup battery SBU-BAT 24 V/2 x 142 Ah, Battery 6,8 kWh,incl. 4 x 2 m ² battery connection cable 35 mm ²
DC cable:				0		2 x 2 m DC connection cable between DC fuse and SBU 2200
				1		2 x 4 m DC connection cable between DC fuse and SBU 2200

A typical Sunny Backup System XL (only for TN grounding systems) with 12 Sunny Backup 5000 is made up of the following components:

12 x Battery inverter Sunny Backup 5000,
Order code example: SBU 5000:00DE

1 x Switching unit AS-Box XL only for TN grounding systems (with PV array connection and 4 Multicluster Piggy-Backs), Order code example: AS-Box XL: 104DE0

8 x Sunny Backup battery incl. battery connection cable,
order code example: SBU-BAT48-140:100

4 x Battery fuse BATFUSE B.03,
Order code example: BATFUSE B.03: 3DE

12 x DC connection cable DC-CABLE.70-3,
Order code example: DC-CABLE.70-3

The total price for system XL as specified above for TN grids is



The order codes given above are only examples. The ultimate order code will be specified via the configuration of the individual products (e.g. Sunny Backup 5000 or AS-Box-XL)



Sunny Backup Accessories



Sunny Backup Accessories

valid from 01.07.2011 to 31.12.2011

SBU-MeterBox (price before options):	x	0	Interface for the reading out of eHZ meters (Hager meter) for Sunny Backup, 1 x 3 m communication cable, plug-in power supply
Meter readout head:	0	With 2 x readout heads for D0 interface with 0.5 m cable, adaptor for top-hat rail, 1 x 0.5 m communication cable	
	1	Without meter readout heads	

Warranty extension up to 10 years
Warranty extension up to 15 years
Warranty extension up to 20 years
Warranty extension up to 25 years

valid from 01.07.2011 to 31.12.2011

SBU-CON.33 (price before options):	x	0	Sunny Backup DC distribution for the connection of up to 3 Sunny Backup batteries and up to 3 x SBU 5000
Connection:	0	No connection cable	
	1	Connection cable 2 x 3 m, 70mm ² , double insulation, with crimped cable shoes for connection of 1 x SBU 5000	
	2	Connection cable 6 x 3 m, 70mm ² , double insulation, with crimped cable shoes for connection of 3 x SBU 5000	

Warranty extension up to 10 years
Warranty extension up to 15 years
Warranty extension up to 20 years
Warranty extension up to 25 years

valid from 01.07.2011 to 31.12.2011

BATFUSE-A.01 (price before options):	x	x	NH00 battery fuse for SBU 2200
	1		125 A fuse
Connection:	0		No connection cables
	1		2 x 2 m connection cable 35 mm ² with pre crimped cable shoes for connection of the fuse with the SBU 2200
	2		2 x 4 m connection cable 35 mm ² with pre crimped cable shoes for connection of the fuse with the SBU 2200
	3		2 x 6 m connection cable 35 mm ² with pre crimped cable shoes for connection of the fuse with the SBU 2200

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

SRC-1

Control unit Sunny Remote Control for SBU 2200,incl. 128 MB SD card and display cable

MC-PB

Multicluster Piggy-Back for SBU 5000,CAN and RS485-Bus on one Piggy-Back,incl. 2 x 5 m CAN communication cable

BAT-TEMP-SENSOR

Spare battery temperature sensor type KTY with 10 m connection cable, for Sunny Island and Sunny Backup

Central inverters





Sunny Central 100 (SC 100)

valid from 01.07.2011 to 31.12.2011

SC 100 (price before options):	x	x	1	x	x	x	0	3	1	x	Self-commutated PV converter, LF transformer, forced cooling, motor driven DC load break switch, AC fuse and AC circuit-breaker (optional), thermally monitored overvoltage protection for the AC-/DC side optional, key switch for operation, all-pole fused DC inputs, isolation monitoring or GFDI optional, connection for external power supply. Integrated operational management unit with data logging function and comprehensive external interfaces.
specific price 1)											
Type of installation:	0										Outdoor
	1										Indoor
Device type:	0										400 V with Circuit breaker
	1										400 V with fuse-switch disconnecter
	2										High efficiency - without transformer
Max. DC-Power:			1								1000 V DC (EVR)
Insulation monitoring:			0								fixed Riso
			1								Riso adjustable
			2								GFDI minus grounding
			3								GFDI plus grounding
			4								GFDI minus grounding (soft)
			5								GFDI plus grounding (soft)
AC surge voltage protector:					0						Without
					1						Typ 1/TNC-grid
					2						Typ 1/TT-TNS-grid
					3						Typ 2/TNC-grid
					4						Typ 2/TT-TNS-grid
Internal supply:					0						internal auxiliary supply
					1						external auxiliary supply
					2						external auxiliary supply Type 1/TT-TNS
					3						external auxiliary supply Type 2/TT-TNS
Communication:							3				NET: Modem Ethernet
Language:										0	German
										1	English
										2	Spanish
										3	Korean
										4	Italian
										5	French
										6	Chinese
										7	Polish
										8	Czech
										9	Greek

Comments

1) Can differ depending on options.



Service and Maintenance (Sunny Central 100 price before options)

Maintenance

Scope of Maintenance

Maintenance includes labor, material and transport costs for all maintenance activities that are specified in the SMA maintenance protocol (available on SMA Homepage). Including costs for travelling and accommodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Spare Parts Guarantee

Scope Spare Parts Guarantee

Spare Parts Guarantee includes material for the devices. Labor costs are not included. Usually SMA will send the spare parts ex-works within one working day.

The Spare Part Guarantee is available worldwide. A standard shipment (transport time can differ depending on country) is included in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Diagnosis + Repair*

First** and Second Level Support by SMA

First Level Support** by Customer,

Second Level Support by SMA

Scope of Diagnosis + Repair

Diagnosis + Repair includes labor costs for all repair activities of SMA (scope depending on selected option). Costs for spare parts and transport are not included.

Including costs for travelling and accommodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Inverter Availability*

98% Inverter Availability

99% Inverter Availability

Scope of Inverter Availability

Guarantee of technical inverter availability of up to 99%. This service is available in connection with the standard factory warranty or the module Spare Parts together with the module Diagnosis + Repair.

The customer will receive an annually report of technical availability by SMA. Costs for spare parts and labor for maintenance work as well as the repair work are not included. In case the technical availability guarantee is not reached, SMA will grant a yield loss compensation of 1.40 € per kW/per day (at nominal AC Power of the defective unit) in Summer months and 1.00 € per kW/per day (at nominal AC Power of the defective unit) in Winter months. The Inverter Availability is available in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Commissioning

by SMA Servicepersonel

Scope of commissioning

Checking of the AC power cabling, checking of the DC power cabling, checking of the communication cables, setting of all relevant parameters, commissioning of all components included in delivery, briefing of the service personnel on the site.

Preconditions for the commissioning: Installation of the Sunny Central inverters following the documentation (e.g. removal of the transportation locks and installation of the inverters), connection of the entire cabling to the inverters, the Sunny String Monitors and the communication products, a minimum of 50 % of the module power must be already connected. If the preconditions are not fulfilled by the customer and SMA is therefore not in the position to execute the commissioning work, SMA will charge 1,000 € per construction site to the customer. Travel and accommodation costs of the SMA Service personnel are charged separately.

Comments

* Only if SMA's monitoring solution (e. g. Sunny WebBox) is accessible.

** First Level Support (FLS): Detect failure type (visual, mechanical, electrical and/or software) and resolve minor defects (e. g. exchange of fuses). Inform SMA about failure, maintenance. Including First Level Support training.

In case of distance (one-way) larger than 500 km between service station and plant an Extra charge will be calculated.

Prices before options and exclusively for the listed inverter.



Sunny Central 250 (SC 250)

valid from 01.07.2011 to 31.12.2011

SC 250 (price before options):	0	x	x	x	x	x	x	3	1	0	0	x	<p>Self-commutated PV converter, LF transformer, forced cooling, motor driven DC load break switch, AC fuse and AC circuit-breaker (optional), thermally monitored overvoltage protection for the AC-/DC side optional, key switch for operation, all-pole fused DC inputs, isolation monitoring or GFDI optional, connection for external power supply. Integrated operational management unit with data logging function and comprehensive external interfaces.</p>
specific price 1)													
Device type:	0												Standard
Team function:	0												Without
	1												Team master
	2												Team member
Max. DC-Power:		0											880 V DC
		1											1000 V DC (EVR)
DC connection:			0										Bus bar
			1										fuse input 80 A
			2										fuse input 100 A
			3										fuse input 125 A
			4										fuse input 160 A
			5										fuse input 200 A
			6										fuse input 250 A
			7										fuse input 315 A
Isolation- monitoring:				0									Riso threshold value can be set
				1									GFDI minus grounding
				2									GFDI plus grounding
				3									Soft grounding minus
				4									Soft grounding plus
Ventilation:					0								Topside
					1								Backside
					3								Topside + Protection against chemically active substances
					4								Backside + Protection against chemically active substances
Communication:								3					NET: Modem Ethernet
Language:													0 German
													1 English
													2 Spanish
													3 Korean
													4 Italian
													5 French
													6 Chinese
													7 Polish
													8 Czech
													9 Greek

Comments

1) Can differ depending on options.



Service and Maintenance (Sunny Central 250 price before options)

Maintenance

Scope of Maintenance

Maintenance includes labor, material and transport costs for all maintenance activities that are specified in the SMA maintenance protocol (available on SMA Homepage). Including costs for travelling and accommodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Spare Parts Guarantee

Scope Spare Parts Guarantee

Spare Parts Guarantee includes material for the devices. Labor costs are not included. Usually SMA will send the spare parts ex-works within one working day.

The Spare Part Guarantee is available worldwide. A standard shipment (transport time can differ depending on country) is included in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Diagnosis + Repair*

First** and Second Level Support by SMA

First Level Support** by Customer,

Second Level Support by SMA

Scope of Diagnosis + Repair

Diagnosis + Repair includes labor costs for all repair activities of SMA (scope depending on selected option). Costs for spare parts and transport are not included.

Including costs for travelling and accommodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Inverter Availability*

98% Inverter Availability

99% Inverter Availability

Scope of Inverter Availability

Guarantee of technical inverter availability of up to 99%. This service is available in connection with the standard factory warranty or the module Spare Parts together with the module Diagnosis + Repair.

The customer will receive an annually report of technical availability by SMA. Costs for spare parts and labor for maintenance work as well as the repair work are not included. In case the technical availability guarantee is not reached, SMA will grant a yield loss compensation of 1.40 € per kW/per day (at nominal AC Power of the defective unit) in Summer months and 1.00 € per kW/per day (at nominal AC Power of the defective unit) in Winter months. The Inverter Availability is available in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Commissioning

by SMA Servicepersonel

Scope of commissioning

Checking of the AC power cabling, checking of the DC power cabling, checking of the communication cables, setting of all relevant parameters, commissioning of all components included in delivery, briefing of the service personnel on the site.

Preconditions for the commissioning: Installation of the Sunny Central inverters following the documentation (e.g. removal of the transportation locks and installation of the inverters), connection of the entire cabling to the inverters, the Sunny String Monitors and the communication products, a minimum of 50 % of the module power must be already connected. If the preconditions are not fulfilled by the customer and SMA is therefore not in the position to execute the commissioning work, SMA will charge 1,000 € per construction site to the customer. Travel and accommodation costs of the SMA Service personnel are charged separately.

Comments

* Only if SMA's monitoring solution (e. g. Sunny WebBox) is accessible.

** First Level Support (FLS): Detect failure type (visual, mechanical, electrical and/or software) and resolve minor defects (e. g. exchange of fuses). Inform SMA about failure, maintenance. Including First Level Support training.

In case of distance (one-way) larger than 500 km between service station and plant an Extra charge will be calculated.

Prices before options and exclusively for the listed inverter.



Sunny Central 250 HE (SC 250 HE)

valid from 01.07.2011 to 31.12.2011

SC 250 HE (price before options):	1	x	x	x	x	x	3	1	0	0	x	Self-commutated converter, forced cooling, motor driven DC load break switch, AC fuse and AC fuse-switch-disconnector, thermally monitored overvoltage protection for the DC side, emergency off-switch, key switch for operation, all-pole fused DC inputs, team operation optional, connection for external power supply. Intended for connection to a separate external medium-voltage transformer.
specific price 1)												
Device type:	1											High efficiency - without transformer
Team function:	0											Without
	1											Team master
	2											Team member
Max. DC-Power:		0										880 V DC
		1										1000 V DC (EVR)
DC connection:			0									Bus bar
			1									fuse input 80 A
			2									fuse input 100 A
			3									fuse input 125 A
			4									fuse input 160 A
			5									fuse input 200 A
			6									fuse input 250 A
			7									fuse input 315 A
Isolation- monitoring:				0								Riso threshold value can be set
				1								GFDI minus grounding
				2								GFDI plus grounding
				3								Soft grounding minus
				4								Soft grounding plus
Ventilation:				0								Topside
				1								Backside
				3								Topside + Protection against chemically active substances
				4								Backside + Protection against chemically active substances
Communication:							3					NET: Modem Ethernet
Language:												0 German
												1 English
												2 Spanish
												3 Korean
												4 Italian
												5 French
												6 Chinese
												7 Polish
												8 Czech
												9 Greek

Comments

1) Can differ depending on options.



Service and Maintenance (Sunny Central 250 HE price before options)

Maintenance

Scope of Maintenance

Maintenance includes labor, material and transport costs for all maintenance activities that are specified in the SMA maintenance protocol (available on SMA Homepage). Including costs for travelling and accommodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.
For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Spare Parts Guarantee

Scope Spare Parts Guarantee

Spare Parts Guarantee includes material for the devices. Labor costs are not included. Usually SMA will send the spare parts ex-works within one working day. The Spare Part Guarantee is available worldwide. A standard shipment (transport time can differ depending on country) is included in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.
For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Diagnosis + Repair*

First** and Second Level Support by SMA

First Level Support** by Customer,
Second Level Support by SMA

Scope of Diagnosis + Repair

Diagnosis + Repair includes labor costs for all repair activities of SMA (scope depending on selected option). Costs for spare parts and transport are not included. Including costs for travelling and accommodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.
For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Inverter Availability*

98% Inverter Availability

99% Inverter Availability

Scope of Inverter Availability

Guarantee of technical inverter availability of up to 99%. This service is available in connection with the standard factory warranty or the module Spare Parts together with the module Diagnosis + Repair.

The customer will receive an annually report of technical availability by SMA. Costs for spare parts and labor for maintenance work as well as the repair work are not included. In case the technical availability guarantee is not reached, SMA will grant a yield loss compensation of 1.40 € per kW/per day (at nominal AC Power of the defective unit) in Summer months and 1.00 € per kW/per day (at nominal AC Power of the defective unit) in Winter months. The Inverter Availability is available in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.
For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Commissioning

by SMA Servicepersonel

Scope of commissioning

Checking of the AC power cabling, checking of the DC power cabling, checking of the communication cables, setting of all relevant parameters, commissioning of all components included in delivery, briefing of the service personnel on the site.

Preconditions for the commissioning: Installation of the Sunny Central inverters following the documentation (e.g. removal of the transportation locks and installation of the inverters), connection of the entire cabling to the inverters, the Sunny String Monitors and the communication products, a minimum of 50 % of the module power must be already connected. If the preconditions are not fulfilled by the customer and SMA is therefore not in the position to execute the commissioning work, SMA will charge 1,000 € per construction site to the customer. Travel and accommodation costs of the SMA Service personnel are charged separately.

Comments

* Only if SMA's monitoring solution (e. g. Sunny WebBox) is accessible.

** First Level Support (FLS): Detect failure type (visual, mechanical, electrical and/or software) and resolve minor defects (e. g. exchange of fuses). Inform SMA about failure, maintenance. Including First Level Support training.

In case of distance (one-way) larger than 500 km between service station and plant an Extra charge will be calculated.

Prices before options and exclusively for the listed inverter.



Sunny Central 350 (SC 350)

valid from 01.07.2011 to 31.12.2011

SC 350 (price before options):	0	x	x	x	x	2	3	1	0	0	x	Self-commutated PV converter, LF transformer, forced cooling, motor driven DC load break switch, AC fuse and AC circuit-breaker (optional), thermally monitored overvoltage protection for the AC-/DC side optional, key switch for operation, all-pole fused DC inputs, isolation monitoring or GFDI optional, connection for external power supply. Integrated operational management unit with data logging function and comprehensive external interfaces.
specific price 1)												
Device type:	0											Standard
Team function:	0											Without
	1											Team master
	2											Team member
Max. DC-Power:		0										880 V DC
		1										1000 V DC (EVR)
DC connection:			0									Bus bar
			1									fuse input 80 A
			2									fuse input 100 A
			3									fuse input 125 A
			4									fuse input 160 A
			5									fuse input 200 A
			6									fuse input 250 A
			7									fuse input 315 A
Isolation- monitoring:				0								Riso threshold value can be set
				1								GFDI minus grounding
				2								GFDI plus grounding
Ventilation:					2							Top- and backside
Communication:						3						NET: Modem Ethernet
Language:												0 German
												1 English
												2 Spanish
												3 Korean
												4 Italian
												5 French
												6 Chinese
												7 Polish
												8 Czech
												9 Greek

Comments

1) Can differ depending on options.



Service and Maintenance (Sunny Central 350 price before options)

Maintenance

Scope of Maintenance

Maintenance includes labor, material and transport costs for all maintenance activities that are specified in the SMA maintenance protocol (available on SMA Homepage). Including costs for travelling and accommodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Spare Parts Guarantee

Scope Spare Parts Guarantee

Spare Parts Guarantee includes material for the devices. Labor costs are not included. Usually SMA will send the spare parts ex-works within one working day.

The Spare Part Guarantee is available worldwide. A standard shipment (transport time can differ depending on country) is included in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Diagnosis + Repair*

First** and Second Level Support by SMA

First Level Support** by Customer,

Second Level Support by SMA

Scope of Diagnosis + Repair

Diagnosis + Repair includes labor costs for all repair activities of SMA (scope depending on selected option). Costs for spare parts and transport are not included.

Including costs for travelling and accommodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Inverter Availability*

98% Inverter Availability

99% Inverter Availability

Scope of Inverter Availability

Guarantee of technical inverter availability of up to 99%. This service is available in connection with the standard factory warranty or the module Spare Parts together with the module Diagnosis + Repair.

The customer will receive an annually report of technical availability by SMA. Costs for spare parts and labor for maintenance work as well as the repair work are not included. In case the technical availability guarantee is not reached, SMA will grant a yield loss compensation of 1.40 € per kW/per day (at nominal AC Power of the defective unit) in Summer months and 1.00 € per kW/per day (at nominal AC Power of the defective unit) in Winter months. The Inverter Availability is available in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea. For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Commissioning

by SMA Servicepersonel

Scope of commissioning

Checking of the AC power cabling, checking of the DC power cabling, checking of the communication cables, setting of all relevant parameters, commissioning of all components included in delivery, briefing of the service personnel on the site.

Preconditions for the commissioning: Installation of the Sunny Central inverters following the documentation (e.g. removal of the transportation locks and installation of the inverters), connection of the entire cabling to the inverters, the Sunny String Monitors and the communication products, a minimum of 50 % of the module power must be already connected. If the preconditions are not fulfilled by the customer and SMA is therefore not in the position to execute the commissioning work, SMA will charge 1,000 € per construction site to the customer. Travel and accommodation costs of the SMA Service personnel are charged separately.

Comments

* Only if SMA's monitoring solution (e. g. Sunny WebBox) is accessible.

** First Level Support (FLS): Detect failure type (visual, mechanical, electrical and/or software) and resolve minor defects (e. g. exchange of fuses). Inform SMA about failure, maintenance. Including First Level Support training.

In case of distance (one-way) larger than 500 km between service station and plant an Extra charge will be calculated.

Prices before options and exclusively for the listed inverter.



Sunny Central 400 HE-11 (SC 400 HE-11)

valid from 01.07.2011 to 31.12.2011

SC 400 HE-11 (price before options):	1	x	x	x	x	x	x	3	1	0	0	x	Self-commutated converter, forced cooling (RPM controlled), extended DC input voltage range (1000 V) as standard, system-integrated DC main distribution frame with up to 8 inputs (optional), motor driven DC load break switch, AC fuse and AC fuse-switch-disconnector, thermally monitored overvoltage protection AC-/DC side, emergency off-switch, connection for external power supply. Intended for connection to an external transformer.
specific price 1)													
Device type:	1												High efficiency - without transformer
Installation:	0												DC cabinet left
	3												DC cabinet right
DC connection:		0											Bus bar
		1											8 fuses per potential
		2											8 fuses and 8 isolating blades
DC fuses:				0									Without
				1									fuse input 80 A
				2									fuse input 100 A
				3									fuse input 125 A
				4									fuse input 160 A
				5									fuse input 200 A
				6									fuse input 250 A
				7									fuse input 315 A
				8									fuse input 400 A
Isolation- monitoring:						0							Riso threshold value can be set
						1							GFDI minus grounding
						2							GFDI plus grounding
						3							GFDI minus grounding (soft)
						4							GFDI plus grounding (soft)
Ventilation:								2					Top- and backside
								5					Protection against chemically active substances
Communication:									3				NET: Modem Ethernet
Language:													0 German
													1 English
													2 Spanish
													3 Korean
													4 Italian
													5 French
													6 Chinese
													7 Polish
													8 Czech
													9 Greek

Comments

1) Can differ depending on options.



Service and Maintenance (Sunny Central 400 HE-11 price before options)

Maintenance

Scope of Maintenance

Maintenance includes labor, material and transport costs for all maintenance activities that are specified in the SMA maintenance protocol (available on SMA Homepage). Including costs for travelling and accommodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.
For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Spare Parts Guarantee

Scope Spare Parts Guarantee

Spare Parts Guarantee includes material for the devices. Labor costs are not included. Usually SMA will send the spare parts ex-works within one working day. The Spare Part Guarantee is available worldwide. A standard shipment (transport time can differ depending on country) is included in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.
For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Diagnosis + Repair*

First** and Second Level Support by SMA

First Level Support** by Customer,
Second Level Support by SMA

Scope of Diagnosis + Repair

Diagnosis + Repair includes labor costs for all repair activities of SMA (scope depending on selected option). Costs for spare parts and transport are not included. Including costs for travelling and accommodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.
For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Inverter Availability*

98% Inverter Availability

99% Inverter Availability

Scope of Inverter Availability

Guarantee of technical inverter availability of up to 99%. This service is available in connection with the standard factory warranty or the module Spare Parts together with the module Diagnosis + Repair.

The customer will receive an annually report of technical availability by SMA. Costs for spare parts and labor for maintenance work as well as the repair work are not included. In case the technical availability guarantee is not reached, SMA will grant a yield loss compensation of 1.40 € per kW/per day (at nominal AC Power of the defective unit) in Summer months and 1.00 € per kW/per day (at nominal AC Power of the defective unit) in Winter months. The Inverter Availability is available in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.
For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Commissioning

by SMA Servicepersonel

Scope of commissioning

Checking of the AC power cabling, checking of the DC power cabling, checking of the communication cables, setting of all relevant parameters, commissioning of all components included in delivery, briefing of the service personnel on the site.

Preconditions for the commissioning: Installation of the Sunny Central inverters following the documentation (e.g. removal of the transportation locks and installation of the inverters), connection of the entire cabling to the inverters, the Sunny String Monitors and the communication products, a minimum of 50 % of the module power must be already connected. If the preconditions are not fulfilled by the customer and SMA is therefore not in the position to execute the commissioning work, SMA will charge 1,000 € per construction site to the customer. Travel and accommodation costs of the SMA Service personnel are charged separately.

Comments

* Only if SMA's monitoring solution (e. g. Sunny WebBox) is accessible.

** First Level Support (FLS): Detect failure type (visual, mechanical, electrical and/or software) and resolve minor defects (e. g. exchange of fuses). Inform SMA about failure, maintenance. Including First Level Support training.

In case of distance (one-way) larger than 500 km between service station and plant an Extra charge will be calculated.

Prices before options and exclusively for the listed inverter.



Sunny Central 500 HE-11 (SC 500 HE-11)

valid from 01.07.2011 to 31.12.2011

SC 500 HE-11 (price before options):	1	x	x	x	x	x	x	3	1	0	0	x	<p>Self-commutated converter, forced cooling (RPM controlled), extended DC input voltage range (1000 V) as standard, system-integrated DC main distribution frame with up to 8 inputs (optional), motor driven DC load break switch, AC fuse and AC fuse-switch-disconnector, thermally monitored overvoltage protection AC/DC side, emergency off-switch, connection for external power supply. Intended for connection to an external transformer.</p> <p>Note: The option "Ventilation: Protection against chemically active substances" initiates a power derating in the temperature range of +40 °C to +50 °C about 18kW/°C.</p>
specific price 1)													
Device type:	1												High efficiency - without transformer
Installation:	0												DC cabinet left
	3												DC cabinet right
DC connection:			0										Bus bar
			1										8 fuses per potential
			2										8 fuses and 8 isolating blades
DC fuses:				0									Without
				1									fuse input 80 A
				2									fuse input 100 A
				3									fuse input 125 A
				4									fuse input 160 A
				5									fuse input 200 A
				6									fuse input 250 A
				7									fuse input 315 A
				8									fuse input 400 A
Isolation- monitoring:					0								Riso threshold value can be set
					1								GFDI minus grounding
					2								GFDI plus grounding
					3								GFDI minus grounding (soft)
					4								GFDI plus grounding (soft)
Ventilation:						2							Top- and backside
						5							Protection against chemically active substances
Communication:								3					NET: Modem Ethernet
Language:													0 German
													1 English
													2 Spanish
													3 Korean
													4 Italian
													5 French
													6 Chinese
													7 Polish
													8 Czech
													9 Greek

Comments

1) Can differ depending on options.



Service and Maintenance (Sunny Central 500 HE-11 price before options)

Maintenance

Scope of Maintenance

Maintenance includes labor, material and transport costs for all maintenance activities that are specified in the SMA maintenance protocol (available on SMA Homepage). Including costs for travelling and accommodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.
For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Spare Parts Guarantee

Scope Spare Parts Guarantee

Spare Parts Guarantee includes material for the devices. Labor costs are not included. Usually SMA will send the spare parts ex-works within one working day. The Spare Part Guarantee is available worldwide. A standard shipment (transport time can differ depending on country) is included in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.
For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Diagnosis + Repair*

First** and Second Level Support by SMA

First Level Support** by Customer,
Second Level Support by SMA

Scope of Diagnosis + Repair

Diagnosis + Repair includes labor costs for all repair activities of SMA (scope depending on selected option). Costs for spare parts and transport are not included. Including costs for travelling and accommodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.
For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Inverter Availability*

98% Inverter Availability

99% Inverter Availability

Scope of Inverter Availability

Guarantee of technical inverter availability of up to 99%. This service is available in connection with the standard factory warranty or the module Spare Parts together with the module Diagnosis + Repair.

The customer will receive an annually report of technical availability by SMA. Costs for spare parts and labor for maintenance work as well as the repair work are not included. In case the technical availability guarantee is not reached, SMA will grant a yield loss compensation of 1.40 € per kW/per day (at nominal AC Power of the defective unit) in Summer months and 1.00 € per kW/per day (at nominal AC Power of the defective unit) in Winter months. The Inverter Availability is available in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.
For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Commissioning

by SMA Servicepersonel

Scope of commissioning

Checking of the AC power cabling, checking of the DC power cabling, checking of the communication cables, setting of all relevant parameters, commissioning of all components included in delivery, briefing of the service personnel on the site.

Preconditions for the commissioning: Installation of the Sunny Central inverters following the documentation (e.g. removal of the transportation locks and installation of the inverters), connection of the entire cabling to the inverters, the Sunny String Monitors and the communication products, a minimum of 50 % of the module power must be already connected. If the preconditions are not fulfilled by the customer and SMA is therefore not in the position to execute the commissioning work, SMA will charge 1,000 € per construction site to the customer. Travel and accommodation costs of the SMA Service personnel are charged separately.

Comments

* Only if SMA's monitoring solution (e. g. Sunny WebBox) is accessible.

** First Level Support (FLS): Detect failure type (visual, mechanical, electrical and/or software) and resolve minor defects (e. g. exchange of fuses). Inform SMA about failure, maintenance. Including First Level Support training.

In case of distance (one-way) larger than 500 km between service station and plant an Extra charge will be calculated.

Prices before options and exclusively for the listed inverter.



Sunny Central 630 HE-11 (SC 630 HE-11)

valid from 01.07.2011 to 31.12.2011

SC 630 HE-11 (price before options):	1	x	x	x	x	x	x	3	1	0	0	x	Self-commutated converter, forced cooling (RPM controlled), extended DC input voltage range (1000 V) as standard, system-integrated DC main distribution frame with up to 8 inputs (optional), motor driven DC load break switch, AC fuse and AC fuse-switch-disconnector, thermally monitored overvoltage protection AC/DC side, emergency off-switch, connection for external power supply. Intended for connection to an external transformer.
specific price 1)													
Device type:	1												High efficiency - without transformer
Installation:	0												DC cabinet left
	3												DC cabinet right
DC connection:			0										Bus bar
			1										8 fuses per potential
			2										8 fuses and 8 isolating blades
DC fuses:				0									Without
				1									fuse input 80 A
				2									fuse input 100 A
				3									fuse input 125 A
				4									fuse input 160 A
				5									fuse input 200 A
				6									fuse input 250 A
				7									fuse input 315 A
				8									fuse input 400 A
Isolation- monitoring:					0								Riso threshold value can be set
					1								GFDI minus grounding
					2								GFDI plus grounding
					3								GFDI minus grounding (soft)
					4								GFDI plus grounding (soft)
Ventilation:						2							Top- and backside
						5							Protection against chemically active substances
Communication:								3					NET: Modem Ethernet
Language:													0 German
													1 English
													2 Spanish
													3 Korean
													4 Italian
													5 French
													6 Chinese
													7 Polish
													8 Czech
													9 Greek

Comments

1) Can differ depending on options.



Service and Maintenance (Sunny Central 630 HE-11 price before options)

Maintenance

Scope of Maintenance

Maintenance includes labor, material and transport costs for all maintenance activities that are specified in the SMA maintenance protocol (available on SMA Homepage). Including costs for travelling and accommodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.
For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Spare Parts Guarantee

Scope Spare Parts Guarantee

Spare Parts Guarantee includes material for the devices. Labor costs are not included. Usually SMA will send the spare parts ex-works within one working day. The Spare Part Guarantee is available worldwide. A standard shipment (transport time can differ depending on country) is included in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.
For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Diagnosis + Repair*

First** and Second Level Support by SMA

First Level Support** by Customer,
Second Level Support by SMA

Scope of Diagnosis + Repair

Diagnosis + Repair includes labor costs for all repair activities of SMA (scope depending on selected option). Costs for spare parts and transport are not included. Including costs for travelling and accommodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.
For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Inverter Availability*

98% Inverter Availability

99% Inverter Availability

Scope of Inverter Availability

Guarantee of technical inverter availability of up to 99%. This service is available in connection with the standard factory warranty or the module Spare Parts together with the module Diagnosis + Repair.

The customer will receive an annually report of technical availability by SMA. Costs for spare parts and labor for maintenance work as well as the repair work are not included. In case the technical availability guarantee is not reached, SMA will grant a yield loss compensation of 1.40 € per kW/per day (at nominal AC Power of the defective unit) in Summer months and 1.00 € per kW/per day (at nominal AC Power of the defective unit) in Winter months. The Inverter Availability is available in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.
For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Commissioning

by SMA Servicepersonel

Scope of commissioning

Checking of the AC power cabling, checking of the DC power cabling, checking of the communication cables, setting of all relevant parameters, commissioning of all components included in delivery, briefing of the service personnel on the site.

Preconditions for the commissioning: Installation of the Sunny Central inverters following the documentation (e.g. removal of the transportation locks and installation of the inverters), connection of the entire cabling to the inverters, the Sunny String Monitors and the communication products, a minimum of 50 % of the module power must be already connected. If the preconditions are not fulfilled by the customer and SMA is therefore not in the position to execute the commissioning work, SMA will charge 1,000 € per construction site to the customer. Travel and accommodation costs of the SMA Service personnel are charged separately.

Comments

* Only if SMA's monitoring solution (e. g. Sunny WebBox) is accessible.

** First Level Support (FLS): Detect failure type (visual, mechanical, electrical and/or software) and resolve minor defects (e. g. exchange of fuses). Inform SMA about failure, maintenance. Including First Level Support training.

In case of distance (one-way) larger than 500 km between service station and plant an Extra charge will be calculated.

Prices before options and exclusively for the listed inverter.



Stations und Transformers


Concrete station 1250MV-DE incl. transformer (SC 1250MV-DE)

valid from 01.07.2011 to 31.12.2011

SC 1250MV-DE (price before options):	0	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of two inverters of the type series SC 630HE-11 and a transformer room incl. a 1250 kVA - 20/2*0.315 kV oil-hermetic transformer, vector group Dy11y11, completely installed.	
	Medium voltage transformer:	0						20 kV Iron-core Transformer
		1						30 kV Iron-core Transformer
		2						15 kV Iron-core Transformer
		3						20 kV Amorphous core Transformer
Internal power supply:	0						Without	
	1						10 kVA Transformer	
	2						20 kVA Transformer	
Medium voltage switchgear:	0						Without	
	1						String connection (20 kV)	
	2						Ring connection (20 kV)	
Station ventilation:	0						Standard	
	1						Protection against chemically active substances	
Language:	0						German	
	1						English	
	2						Spanish	
	3						Korean	
	4						Italian	
	5						French	
	6						Chinese	

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

DE) Version for Germany


Concrete station 1000MV-DE incl. transformer (SC 1000MV-DE)

valid from 01.07.2011 to 31.12.2011

SC 1000MV-DE (price before options):	1	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of two inverters of the type series SC 500HE-11 and a transformer room incl. a 1000 kVA - 20/2*0.27 kV oil-hermetic transformer, vector group Dy11y11, completely installed.	
	Medium voltage transformer:	0						20 kV Iron-core Transformer
		1						30 kV Iron-core Transformer
		2						15 kV Iron-core Transformer
		3						20 kV Amorphous core Transformer
Internal power supply:	0						Without	
	1						10 kVA Transformer	
	2						20 kVA Transformer	
Medium voltage switchgear:	0						Without	
	1						String connection (20 kV)	
	2						Ring connection (20 kV)	
Station ventilation:	0						Standard	
	1						Protection against chemically active substances	
Language:	0						German	
	1						English	
	2						Spanish	
	3						Korean	
	4						Italian	
	5						French	
	6						Chinese	

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

DE) Version for Germany


Concrete station 800MV-DE incl. transformer (SC 800MV-DE)

valid from 01.07.2011 to 31.12.2011

SC 800MV-DE (price before options):	2	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of two inverters of the type series SC 400HE11 and a transformer room incl. a 1000 kVA - 20/2*0.27 kV oil-hermetic transformer, vector group Dy11y11, completely installed.	
	Medium voltage transformer:	0						20 kV Iron-core Transformer
		1						30 kV Iron-core Transformer
		2						15 kV Iron-core Transformer
		3						20 kV Amorphous core Transformer
Internal power supply:			0				Without	
			1				10 kVA Transformer	
			2				20 kVA Transformer	
Medium voltage switchgear:			0				Without	
			1				String connection (20 kV)	
			2				Ring connection (20 kV)	
Station ventilation:					0		Standard	
					1		Protection against chemically active substances	
Language:					0		German	
					1		English	
					2		Spanish	
					3		Korean	
					4		Italian	
					5		French	
					6		Chinese	

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

DE) Version for Germany


Concrete station 630MV-DE incl. transformer (SC 630MV-DE)

valid from 01.07.2011 to 31.12.2011

SC 630MV-DE (price before options):	3	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of an inverter of the type series SC 630HE.11 and a transformer room incl. a 630 kVA - 20/0.315 kV oil-hermetic transformer, vector group Dy11, completely installed.	
	Medium voltage transformer:	0						20 kV Iron-core Transformer
		1						30 kV Iron-core Transformer
		2						15 kV Iron-core Transformer
		3						20 kV Amorphous core Transformer
Internal power supply:			0				Without	
			1				10 kVA Transformer	
			2				20 kVA Transformer	
Medium voltage switchgear:			0				Without	
			1				String connection (20 kV)	
			2				Ring connection (20 kV)	
Station ventilation:					0		Standard	
					1		Protection against chemically active substances	
Language:					0		German	
					1		English	
					2		Spanish	
					3		Korean	
					4		Italian	
					5		French	
					6		Chinese	

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

DE) Version for Germany


Concrete station 500MV-DE incl. transformer (SC 500MV-DE)

valid from 01.07.2011 to 31.12.2011

SC 500MV-DE (price before options):	4	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of an inverter of the type series SC 500HE-11 and a transformer room incl. a 500 kVA - 20/0.27 kV oil-hermetic transformer, vector group Dy11, completely installed.	
	Medium voltage transformer:	0						20 kV Iron-core Transformer
		1						30 kV Iron-core Transformer
		2						15 kV Iron-core Transformer
		3						20 kV Amorphous core Transformer
Internal power supply:			0				Without	
			1				10 kVA Transformer	
			2				20 kVA Transformer	
Medium voltage switchgear:			0				Without	
			1				String connection (20 kV)	
			2				Ring connection (20 kV)	
Station ventilation:					0		Standard	
					1		Protection against chemically active substances	
Language:					0		German	
					1		English	
					2		Spanish	
					3		Korean	
					4		Italian	
					5		French	
					6		Chinese	

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

DE) Version for Germany


Concrete station 400MV-DE incl. transformer (SC 400MV-DE)

valid from 01.07.2011 to 31.12.2011

SC 400MV-DE (price before options):	5	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of an inverter of the type series SC 400HE-11 and a transformer room incl. a 500 kVA - 20/0.27 kV oil-hermetic transformer, vector group Dy11, completely installed.	
	<hr/>							
	Medium voltage transformer:	0						20 kV Iron-core Transformer
		1						30 kV Iron-core Transformer
		2						15 kV Iron-core Transformer
		3						20 kV Amorphous core Transformer
Internal power supply:			0				Without	
			1				10 kVA Transformer	
			2				20 kVA Transformer	
Medium voltage switchgear:				0			Without	
				1			String connection (20 kV)	
				2			Ring connection (20 kV)	
Station ventilation:					0		Standard	
					1		Protection against chemically active substances	
Language:						0	German	
						1	English	
						2	Spanish	
						3	Korean	
						4	Italian	
						5	French	
						6	Chinese	

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

DE) Version for Germany


Concrete station 1250MV-IT incl. transformer (SC 1250MV-IT)

valid from 01.07.2011 to 31.12.2011

SC 1250MV-IT (price before options):	0	x	x	x	x	x	x	Combination of prefabricated concrete substations, designed as two walkable 2-room station type P54, each with separated doors Dimension and weight acc. station-drawings, devided in: one low-voltage room, prepared for installation of one inverter of type SC 630HE-11 one transformer room incl. one 630 kVA - 20/0,315 kV oil-hermetic-transformer, vector group Dy11, completely installed.
Medium voltage transformer:	0	1	2					20 kV 30 kV 15 kV
Internal power supply:			0	1	2			Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:			0	1	2			Without String connection (20 kV) Ring connection (20 kV)
Station ventilation:				0	1			Standard Protection against chemically active substances
Counter for low voltage side				0	1	2		Without One counter type GSE Two counter type GSE
Language:							0	German 1 English 2 Spanish 3 Korean 4 Italian 5 French 6 Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Italy (mainland, Sardinia and Sicily).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

IT) Italian version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).


Concrete station 1000MV-IT incl. transformer (SC 1000MV-IT)

valid from 01.07.2011 to 31.12.2011

SC 1000MV-IT (price before options):	1	x	x	x	x	x	x	Combination of Prefabricated concrete substations, designed as two walkable 2-room station type P54, each with separated doors Dimension and weight acc. station-drawings, devided in: One low-voltage room, prepared for installation of one inverter of type SC 400HE-11 resp. SC 500HE-11 One transformer room incl. one 500 kVA - 20/0,27 kV oil-hermetic-transformer, vector group Dy11, completely installed.
Medium voltage transformer:	0	1	2					20 kV 30 kV 15 kV
Internal power supply:			0	1	2			Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:			0	1	2			Without String connection (20 kV) Ring connection (20 kV)
Station ventilation:				0	1			Standard Protection against chemically active substances
Counter for low voltage side					0	1	2	Without One counter type GSE Two counter type GSE
Language:							0	0 German 1 English 2 Spanish 3 Korean 4 Italian 5 French 6 Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Italy (mainland, Sardinia and Sicily).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

IT) Italian version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).


Concrete station 800MV-IT incl. transformer (SC 800MV-IT)

valid from 01.07.2011 to 31.12.2011

SC 800MV-IT (price before options):	2	x	x	x	x	x	x	Combination of Prefabricated concrete substations, designed as two walkable 2-room station type P54, each with separated doors Dimension and weight acc. station-drawings, devided in: One low-voltage room, prepared for installation of one inverter of type SC 400HE-11 resp. SC 500HE-11 One transformer room incl. one 500 kVA - 20/0,27 kV oil-hermetic-transformer, vector group Dy11, completely installed.
Medium voltage transformer:	0	1	2					20 kV 30 kV 15 kV
Internal power supply:			0	1	2			Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:			0	1	2			Without String connection (20 kV) Ring connection (20 kV)
Station ventilation:				0	1			Standard Protection against chemically active substances
Counter for low voltage side					0	1	2	Without One counter type GSE Two counter type GSE
Language:							0	0 German 1 English 2 Spanish 3 Korean 4 Italian 5 French 6 Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Italy (mainland, Sardinia and Sicily).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

IT) Italian version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).


Concrete station 630MV-IT incl. transformer (SC 630MV-IT)

valid from 01.07.2011 to 31.12.2011

SC 630MV-IT (price before options):	3	x	x	x	x	x	x	Concrete substation, consists of a walk-in 3-room station type P54 with separate doors; Dimensions and weight appropriate to the station plans; separated into: a low-voltage room prepared for the installation of an inverter of the type series SC 630HE-11 a transformer room incl. a 630 kVA - 20/0.315 kV oil-hermetic transformer, vector group Dy11, completely installed.
Medium voltage transformer:	0	1	2					20 kV 30 kV 15 kV
Internal power supply:			0	1	2			Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:			0	1	2			Without String connection (20 kV) Ring connection (20 kV)
Station ventilation:				0	1			Standard Protection against chemically active substances
Counter for low voltage side					0	1	2	Without One counter type GSE Two counter type GSE
Language:							0	German 1 English 2 Spanish 3 Korean 4 Italian 5 French 6 Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Italy (mainland, Sardinia and Sicily).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

IT) Italian version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).


Concrete station 500MV-IT incl. transformer (SC 500MV-IT)

valid from 01.07.2011 to 31.12.2011

SC 500MV-IT (price before options):	4	x	x	x	x	x	x	Concrete substation, consists of a walk-in 3-room station type P54 with separate doors; Dimensions and weight appropriate to the station plans; separated into: a low-voltage room prepared for the installation of an inverter of the type series SC 400HE-11 or SC 500HE-11 a transformer room incl. a 500 kVA - 20/0.27 kV oil-hermetic transformer, vector group Dy11, completely installed.
Medium voltage transformer:	0	1	2					20 kV 30 kV 15 kV
Internal power supply:			0	1	2			Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:			0	1	2			Without String connection (20 kV) Ring connection (20 kV)
Station ventilation:				0	1			Standard Protection against chemically active substances
Counter for low voltage side					0	1	2	Without One counter type GSE Two counter type GSE
Language:							0	German 1 English 2 Spanish 3 Korean 4 Italian 5 French 6 Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Italy (mainland, Sardinia and Sicily).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

IT) Italian version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).


Concrete station 400MV-IT incl. transformer (SC 400MV-IT)

valid from 01.07.2011 to 31.12.2011

SC 400MV-IT (price before options):	5	x	x	x	x	x	x	Concrete substation, consists of a walk-in 3-room station type P54 with separate doors; Dimensions and weight appropriate to the station plans; separated into: a low-voltage room prepared for the installation of an inverter of the type series SC 400HE-11 or SC 500HE-11 a transformer room incl. a 500 kVA - 20/0.27 kV oil-hermetic transformer, vector group Dy11, completely installed.
Medium voltage transformer:	0	1	2					20 kV 30 kV 15 kV
Internal power supply:			0	1	2			Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:			0	1	2			Without String connection (20 kV) Ring connection (20 kV)
Station ventilation:				0	1			Standard Protection against chemically active substances
Counter for low voltage side					0	1	2	Without One counter type GSE Two counter type GSE
Language:							0	German 1 English 2 Spanish 3 Korean 4 Italian 5 French 6 Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Italy (mainland, Sardinia and Sicily).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

IT) Italian version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).


Concrete station 1250MV-FR incl. transformer (SC 1250MV-FR)

valid from 01.07.2011 to 31.12.2011

SC 1250MV-FR (price before options):	0	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of two inverters of the type series SC630HE-11 and a transformer room incl. a 1250 kVA - 20/2*0.315 kV oil-hermetic transformer, vector group Dy11y11, with reduced losses completely installed.
Medium voltage transformer:	0	2					20 kV 15 kV
Internal power supply:			0	1	2		Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:			0	1	2		Without String connection (20 kV) Ring connection (20 kV)
Station ventilation:				0	1		Standard Protection against chemically active substances
Language:						0	German
						1	English
						2	Spanish
						3	Korean
						4	Italian
						5	French
						6	Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within France (not including islands, not including overseas).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

FR) France version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).


Concrete station 1000MV-FR incl. transformer (SC 1000MV-FR)

valid from 01.07.2011 to 31.12.2011

SC 1000MV-FR (price before options):							Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of two inverters of the type series SC500HE-11 and a transformer room incl. a 1000 kVA - 20/2*0.27 kV oil-hermetic transformer, vector group Dy11y11, with reduced losses completely installed.
	1	x	x	x	x	x	
Medium voltage transformer:		0 2					20 kV 15 kV
Internal power supply:			0 1 2				Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:				0 1 2			Without String connection (20 kV) Ring connection (20 kV)
Station ventilation:					0 1		Standard Protection against chemically active substances
Language:						0 1 2 3 4 5 6	German English Spanish Korean Italian French Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within France (not including islands, not including overseas).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

FR) France version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).


Concrete station 800MV-FR incl. transformer (SC 800MV-FR)

valid from 01.07.2011 to 31.12.2011

SC 800MV-FR (price before options):	2	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of two inverters of the type series SC400HE-11 and a transformer room incl. a 1000 kVA - 20/2*0.27 kV oil-hermetic transformer, vector group Dy11y11, with reduced losses completely installed.
Medium voltage transformer:	0	2					20 kV 15 kV
Internal power supply:			0	1	2		Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:			0	1	2		Without String connection (20 kV) Ring connection (20 kV)
Station ventilation:				0	1		Standard Protection against chemically active substances
Language:						0	German
						1	English
						2	Spanish
						3	Korean
						4	Italian
						5	French
						6	Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within France (not including islands, not including overseas).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

FR) France version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).


Concrete station 630MV-FR incl. transformer (SC 630MV-FR)

valid from 01.07.2011 to 31.12.2011

SC 630MV-FR (price before options):	3	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of an inverter of the type series SC630HE-11 and a transformer room incl. a 630 kVA - 20/0.315 kV oil-hermetic transformer, vector group Dy11, with reduced losses completely installed.
Medium voltage transformer:	0	2					20 kV 15 kV
Internal power supply:			0	1	2		Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:			0	1	2		Without String connection (20 kV) Ring connection (20 kV)
Station ventilation:				0	1		Standard Protection against chemically active substances
Language:						0	German
						1	English
						2	Spanish
						3	Korean
						4	Italian
						5	French
						6	Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within France (not including islands, not including overseas).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

FR) France version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).


Concrete station 500MV-FR incl. transformer (SC 500MV-FR)

valid from 01.07.2011 to 31.12.2011

SC 500MV-FR (price before options):							Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of an inverter of the type series SC500HE-11 and a transformer room incl. a 500 kVA - 20/0.27 kV oil-hermetic transformer, vector group Dy11, with reduced losses completely installed.
	4	x	x	x	x	x	
Medium voltage transformer:		0 2					20 kV 15 kV
Internal power supply:			0 1 2				Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:				0 1 2			Without String connection (20 kV) Ring connection (20 kV)
Station ventilation:					0 1		Standard Protection against chemically active substances
Language:						0 1 2 3 4 5 6	German English Spanish Korean Italian French Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within France (not including islands, not including overseas).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

FR) France version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).


Concrete station 400MV-FR incl. transformer (SC 400MV-FR)

valid from 01.07.2011 to 31.12.2011

SC 400MV-FR (price before options):	5	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of an inverter of the type series SC400HE-11 and a transformer room incl. a 500 kVA - 20/0.27 kV oil-hermetic transformer, vector group Dy11, with reduced losses completely installed.
Medium voltage transformer:		0 2					20 kV 15 kV
Internal power supply:			0 1 2				Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:				0 1 2			Without String connection (20 kV) Ring connection (20 kV)
Station ventilation:					0 1		Standard Protection against chemically active substances
Language:						0 1 2 3 4 5 6	German English Spanish Korean Italian French Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within France (not including islands, not including overseas).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

FR) France version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).


Concrete station 1250MV-CZ incl. transformer (SC 1250MV-CZ)

valid from 01.07.2011 to 31.12.2011

SC 1250MV-CZ (price before options):	0	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of two inverters of the type series SC 630HE-11 and a transformer room incl. a 1250 kVA - 22/2*0.315 kV oil-hermetic transformer, vector group Dy1y1, completely installed.
Medium voltage transformer:	0 1						22 kV 35 kV
Internal power supply:			0 1 2				Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:				0 1 2			Without String connection (22 kV) Ring connection (22 kV)
Station ventilation:					0 1		Standard Protection against chemically active substances
Language:						0 1 2 3 4 5 6 7	German English Spanish Korean Italian French Chinese Czech

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within the Czech Republic and Slovakia

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

CZ) Version for the Czech Republic and Slovakia


Concrete station 1000MV-CZ incl. transformer (SC 1000MV-CZ)

valid from 01.07.2011 to 31.12.2011

SC 1000MV-CZ (price before options):								Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of two inverters of the type series SC 500HE-11 and a transformer room incl. a 1000 kVA - 22/2*0.27 kV oil-hermetic transformer, vector group Dy1y1, completely installed.
	1	x	x	x	x	x	x	
Medium voltage transformer:		0						22 kV 35 kV
Internal power supply:			0					Without
			1					10 kVA Transformer
			2					20 kVA Transformer
Medium voltage switchgear:			0					Without
			1					String connection (22 kV)
			2					Ring connection (22 kV)
Station ventilation:						0		Standard
						1		Protection against chemically active substances
Language:							0	German
							1	English
							2	Spanish
							3	Korean
							4	Italian
							5	French
							6	Chinese
							7	Czech

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within the Czech Republic and Slovakia

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

CZ) Version for the Czech Republic and Slovakia


Concrete station 800MV-CZ incl. transformer (SC 800MV-CZ)

valid from 01.07.2011 to 31.12.2011

SC 800MV-CZ (price before options):	2	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of two inverters of the type series SC 400HE-11 and a transformer room incl. a 1000 kVA - 22/2*0.27 kV oil-hermetic transformer, vector group Dy1y1, completely installed.
Medium voltage transformer:	0						22 kV 35 kV
Internal power supply:			0				Without
			1				10 kVA Transformer
			2				20 kVA Transformer
Medium voltage switchgear:			0				Without
			1				String connection (22 kV)
			2				Ring connection (22 kV)
Station ventilation:					0		Standard
					1		Protection against chemically active substances
Language:						0	German
						1	English
						2	Spanish
						3	Korean
						4	Italian
						5	French
						6	Chinese
						7	Czech

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within the Czech Republic and Slovakia

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

CZ) Version for the Czech Republic and Slovakia


Concrete station 630MV-CZ incl. transformer (SC 630MV-CZ)

valid from 01.07.2011 to 31.12.2011

SC 630MV-CZ (price before options):	3	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of an inverter of the type series SC 630HE.11 and a transformer room incl. a 630 kVA - 22/0.315 kV oil-hermetic transformer, vector group Dy11, completely installed.
Medium voltage transformer:		0 1					22 kV 35 kV
Internal power supply:			0 1 2				Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:				0 1 2			Without String connection (22 kV) Ring connection (22 kV)
Station ventilation:					0 1		Standard Protection against chemically active substances
Language:						0 1 2 3 4 5 6 7	German English Spanish Korean Italian French Chinese Czech

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within the Czech Republic and Slovakia

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

CZ) Version for the Czech Republic and Slovakia


Concrete station 500MV-CZ incl. transformer (SC 500MV-CZ)

valid from 01.07.2011 to 31.12.2011

SC 500MV-CZ (price before options):	4	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of an inverter of the type series SC 500HE-11 and a transformer room incl. a 500 kVA - 22/0.27 kV oil-hermetic transformer, vector group Dy11, completely installed.
Medium voltage transformer:		0 1					22 kV 35 kV
Internal power supply:			0 1 2				Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:				0 1 2			Without String connection (22 kV) Ring connection (22 kV)
Station ventilation:					0 1		Standard Protection against chemically active substances
Language:						0 1 2 3 4 5 6 7	German English Spanish Korean Italian French Chinese Czech

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within the Czech Republic and Slovakia

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

CZ) Version for the Czech Republic and Slovakia


Concrete station 400MV-CZ incl. transformer (SC 400MV-CZ)

valid from 01.07.2011 to 31.12.2011

SC 400MV-CZ (price before options):	5	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of an inverter of the type series SC 400HE-11 and a transformer room incl. a 500 kVA - 22/0.27 kV oil-hermetic transformer, vector group Dy11, completely installed.
Medium voltage transformer:		0 1					22 kV 35 kV
Internal power supply:			0 1 2				Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:				0 1 2			Without String connection (22 kV) Ring connection (22 kV)
Station ventilation:					0 1		Standard Protection against chemically active substances
Language:						0 1 2 3 4 5 6 7	German English Spanish Korean Italian French Chinese Czech

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within the Czech Republic and Slovakia

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

CZ) Version for the Czech Republic and Slovakia


Concrete station 1250MV-BG incl. transformer (SC 1250MV-BG)

valid from 01.07.2011 to 31.12.2011

SC 1250MV-BG (price before options):	0	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of two inverters of the type series SC 630HE-11 and a transformer room incl. a 1250 kVA - 20/2*0.315 kV oil-hermetic transformer, vector group Dy11y11, completely installed.
Medium voltage transformer:	0	1	2				20 kV Iron-core Transformer 30 kV Iron-core Transformer 15 kV Iron-core Transformer
Internal power supply:			0	1	2		Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:				0	1	2	Without String connection (20 kV) Ring connection (20 kV)
Station ventilation:					0	1	Standard Protection against chemically active substances
Language:						0	German
						1	English
						2	Spanish
						3	Korean
						4	Italian
						5	French
						6	Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Bulgaria (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

BG) Version for Bulgaria


Concrete station 1000MV-BG incl. transformer (SC 1000MV-BG)

valid from 01.07.2011 to 31.12.2011

SC 1000MV-BG (price before options):	1	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of two inverters of the type series SC 500HE-11 and a transformer room incl. a 1000 kVA - 20/2*0.27 kV oil-hermetic transformer, vector group Dy11y11, completely installed.
Medium voltage transformer:	0						20 kV Iron-core Transformer
	1						30 kV Iron-core Transformer
	2						15 kV Iron-core Transformer
Internal power supply:			0				Without
			1				10 kVA Transformer
			2				20 kVA Transformer
Medium voltage switchgear:			0				Without
			1				String connection (20 kV)
			2				Ring connection (20 kV)
Station ventilation:				0			Standard
				1			Protection against chemically active substances
Language:					0		German
					1		English
					2		Spanish
					3		Korean
					4		Italian
					5		French
					6		Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Bulgaria (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

BG) Version for Bulgaria


Concrete station 800MV-BG incl. transformer (SC 800MV-BG)

valid from 01.07.2011 to 31.12.2011

SC 800MV-BG (price before options):	2	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of two inverters of the type series SC 400HE-11 and a transformer room incl. a 1000 kVA - 20/2*0.27 kV oil-hermetic transformer, vector group Dy11y11, completely installed.
Medium voltage transformer:	0						20 kV Iron-core Transformer
	1						30 kV Iron-core Transformer
	2						15 kV Iron-core Transformer
Internal power supply:			0				Without
			1				10 kVA Transformer
			2				20 kVA Transformer
Medium voltage switchgear:			0				Without
			1				String connection (20 kV)
			2				Ring connection (20 kV)
Station ventilation:				0			Standard
				1			Protection against chemically active substances
Language:					0		German
					1		English
					2		Spanish
					3		Korean
					4		Italian
					5		French
					6		Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Bulgaria (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

BG) Version for Bulgaria


Concrete station 630MV-BG incl. transformer (SC 630MV-BG)

valid from 01.07.2011 to 31.12.2011

SC 630MV-BG (price before options):	3	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of an inverter of the type series SC 630HE.11 and a transformer room incl. a 630 kVA - 20/0.315 kV oil-hermetic transformer, vector group Dy11, completely installed.
Medium voltage transformer:	0						20 kV Iron-core Transformer
	1						30 kV Iron-core Transformer
	2						15 kV Iron-core Transformer
Internal power supply:			0				Without
			1				10 kVA Transformer
			2				20 kVA Transformer
Medium voltage switchgear:				0			Without
				1			String connection (20 kV)
				2			Ring connection (20 kV)
Station ventilation:					0		Standard
					1		Protection against chemically active substances
Language:						0	German
						1	English
						2	Spanish
						3	Korean
						4	Italian
						5	French
						6	Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Bulgaria (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

BG) Version for Bulgaria


Concrete station 500MV-BG incl. transformer (SC 500MV-BG)

valid from 01.07.2011 to 31.12.2011

SC 500MV-BG (price before options):	4	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of an inverter of the type series SC 500HE-11 and a transformer room incl. a 500 kVA - 20/0.27 kV oil-hermetic transformer, vector group Dy11, completely installed.
Medium voltage transformer:	0						20 kV Iron-core Transformer
	1						30 kV Iron-core Transformer
	2						15 kV Iron-core Transformer
Internal power supply:			0				Without
			1				10 kVA Transformer
			2				20 kVA Transformer
Medium voltage switchgear:			0				Without
			1				String connection (20 kV)
			2				Ring connection (20 kV)
Station ventilation:				0			Standard
				1			Protection against chemically active substances
Language:					0		German
					1		English
					2		Spanish
					3		Korean
					4		Italian
					5		French
					6		Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Bulgaria (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

BG) Version for Bulgaria


Concrete station 400MV-BG incl. transformer (SC 400MV-BG)

valid from 01.07.2011 to 31.12.2011

SC 400MV-BG (price before options):	5	x	x	x	x	x	Concrete substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of an inverter of the type series SC 400HE-11 and a transformer room incl. a 500 kVA - 20/0.27 kV oil-hermetic transformer, vector group Dy11, completely installed.
Medium voltage transformer:	0						20 kV Iron-core Transformer
	1						30 kV Iron-core Transformer
	2						15 kV Iron-core Transformer
Internal power supply:			0				Without
			1				10 kVA Transformer
			2				20 kVA Transformer
Medium voltage switchgear:				0			Without
				1			String connection (20 kV)
				2			Ring connection (20 kV)
Station ventilation:					0		Standard
					1		Protection against chemically active substances
Language:						0	German
						1	English
						2	Spanish
						3	Korean
						4	Italian
						5	French
						6	Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Bulgaria (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

BG) Version for Bulgaria


Concrete station 1250MV-GR incl. transformer (SC 1250MV-GR)

valid from 01.07.2011 to 31.12.2011

SC 1250MV-GR (price before options):	0	x	x	x	x	x	Steel substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of two inverters of the type series SC 630HE-11 and a transformer room incl. a 1250 kVA - 20/2*0.315 kV oil-hermetic transformer, vector group Dy11y11, completely installed.				
Medium voltage transformer:	0	1	2				20 kV 30 kV 15 kV				
Internal power supply:			0	1	2		Without 10 kVA Transformer 20 kVA Transformer				
Medium voltage switchgear:			0	1	2		Without String connection (20 kV) Ring connection (20 kV)				
Station ventilation:				0	1		Standard Protection against chemically active substances				
Language:				0	1	2	3	4	5	6	German English Spanish Korean Italian French Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

GR) Version for Greece



Concrete station 1000MV-GR incl. transformer (SC 1000MV-GR)

valid from 01.07.2011 to 31.12.2011

SC 1000MV-GR (price before options):	1	x	x	x	x	x	Steel substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of two inverters of the type series SC 500HE-11 and a transformer room incl. a 1000 kVA - 20/2*0.27 kV oil-hermetic transformer, vector group Dy11y11, completely installed.				
Medium voltage transformer:	0	1	2				20 kV 30 kV 15 kV				
Internal power supply:			0	1	2		Without 10 kVA Transformer 20 kVA Transformer				
Medium voltage switchgear:			0	1	2		Without String connection (20 kV) Ring connection (20 kV)				
Station ventilation:				0	1		Standard Protection against chemically active substances				
Language:				0	1	2	3	4	5	6	German English Spanish Korean Italian French Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

GR) Version for Greece


Concrete station 800MV-GR incl. transformer (SC 800MV-GR)

valid from 01.07.2011 to 31.12.2011

SC 800MV-GR (price before options):	2	x	x	x	x	x	Steel substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of two inverters of the type series SC 400HE-11 and a transformer room incl. a 1000 kVA - 20/2*0.27 kV oil-hermetic transformer, vector group Dy11y11, completely installed.				
Medium voltage transformer:	0	1	2				20 kV 30 kV 15 kV				
Internal power supply:			0	1	2		Without 10 kVA Transformer 20 kVA Transformer				
Medium voltage switchgear:			0	1	2		Without String connection (20 kV) Ring connection (20 kV)				
Station ventilation:				0	1		Standard Protection against chemically active substances				
Language:				0	1	2	3	4	5	6	German English Spanish Korean Italian French Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

GR) Version for Greece


Concrete station 630MV-GR incl. transformer (SC 630MV-GR)

valid from 01.07.2011 to 31.12.2011

SC 630MV-GR (price before options):	3	x	x	x	x	x	Steel substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of an inverter of the type series SC 630HE.11 and a transformer room incl. a 630 kVA - 20/0.315 kV oil-hermetic transformer, vector group Dy11, completely installed.				
Medium voltage transformer:	0	1	2				20 kV 30 kV 15 kV				
Internal power supply:			0	1	2		Without 10 kVA Transformer 20 kVA Transformer				
Medium voltage switchgear:			0	1	2		Without String connection (20 kV) Ring connection (20 kV)				
Station ventilation:				0	1		Standard Protection against chemically active substances				
Language:				0	1	2	3	4	5	6	German English Spanish Korean Italian French Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

GR) Version for Greece


Concrete station 500MV-GR incl. transformer (SC 500MV-GR)

valid from 01.07.2011 to 31.12.2011

SC 500MV-GR (price before options):	4	x	x	x	x	x	Steel substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of an inverter of the type series SC 500HE.11 and a transformer room incl. a 500 kVA - 20/0.27 kV oil-hermetic transformer, vector group Dy11, completely installed.				
Medium voltage transformer:	0	1	2				20 kV 30 kV 15 kV				
Internal power supply:			0	1	2		Without 10 kVA Transformer 20 kVA Transformer				
Medium voltage switchgear:			0	1	2		Without String connection (20 kV) Ring connection (20 kV)				
Station ventilation:				0	1		Standard Protection against chemically active substances				
Language:				0	1	2	3	4	5	6	German English Spanish Korean Italian French Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

GR) Version for Greece


Concrete station 400MV-GR incl. transformer (SC 400MV-GR)

valid from 01.07.2011 to 31.12.2011

SC 400MV-GR (price before options):	5	x	x	x	x	x	Steel substation, consists of a walk-in 2-room station with separate doors; Dimensions and weights appropriate to the station plans; separated into: a low-voltage room prepared for the installation of an inverter of the type series SC 400HE.11 and a transformer room incl. a 500 kVA - 20/0.27 kV oil-hermetic transformer, vector group Dy11, completely installed.				
Medium voltage transformer:	0	1	2				20 kV 30 kV 15 kV				
Internal power supply:			0	1	2		Without 10 kVA Transformer 20 kVA Transformer				
Medium voltage switchgear:			0	1	2		Without String connection (20 kV) Ring connection (20 kV)				
Station ventilation:				0	1		Standard Protection against chemically active substances				
Language:				0	1	2	3	4	5	6	German English Spanish Korean Italian French Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

GR) Version for Greece


Concrete station 1250MV-ES incl. transformer (SC 1250MV-ES)

valid from 01.07.2011 to 31.12.2011

SC 1250MV-ES (price before options):	0	x	x	x	x	x	Combination of two pre-fabricated concrete substations with several rooms. Substation with two rooms consists of: low-voltage room prepared for the installation of an inverter of the series SC630HE-11 and transformer room incl. a 630 kVA - 20/0.315 kV oil-hermetical transformer, vector group Dy11, with reduced losses.
Medium voltage transformer:	0	1	2				20 kV 30 kV 15 kV
Internal power supply:			0	1	2		Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:				0	1	2	Without String connection (20 kV) Ring connection (20 kV)
Station ventilation:					0	1	Standard Protection against chemically active substances
Language:						0	German 1 English 2 Spanish 3 Korean 4 Italian 5 French 6 Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Spain (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

ES) Spanish version: Temperature class T10 for concrete station (inclusive), Interlocking system high-voltage side integrated in concrete station (inclusive).


Concrete station 1000MV-ES incl. transformer (SC 1000MV-ES)

valid from 01.07.2011 to 31.12.2011

SC 1000MV-ES (price before options):	1	x	x	x	x	x	Combination of two pre-fabricated concrete substations with several rooms. Substation with two rooms consists of: low-voltage room prepared for the installation of an inverter of the series SC500HE-11 and transformer room incl. a 500 kVA - 20/0.27 kV oil-hermetical transformer, vector group Dy11, with reduced losses.
Medium voltage transformer:	0	1	2				20 kV 30 kV 15 kV
Internal power supply:			0	1	2		Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:			0	1	2		Without String connection (20 kV) Ring connection (20 kV)
Station ventilation:					0	1	Standard Protection against chemically active substances
Language:						0	German 1 English 2 Spanish 3 Korean 4 Italian 5 French 6 Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Spain (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

ES) Spanish version: Temperature class T10 for concrete station (inclusive), Interlocking system high-voltage side integrated in concrete station (inclusive).


Concrete station 800MV-ES incl. transformer (SC 800MV-ES)

valid from 01.07.2011 to 31.12.2011

SC 800MV-ES (price before options):	2	x	x	x	x	x	Combination of two pre-fabricated concrete substations with several rooms. Substation with two rooms consists of: low-voltage room prepared for the installation of an inverter of the series SC400HE-11 and a transformer room incl. a 500 kVA - 20/0.27 kV oil-hermetical transformer, vector group Dy11, with reduced losses.				
Medium voltage transformer:	0	1	2				20 kV 30 kV 15 kV				
Internal power supply:			0	1	2		Without 10 kVA Transformer 20 kVA Transformer				
Medium voltage switchgear:			0	1	2		Without String connection (20 kV) Ring connection (20 kV)				
Station ventilation:				0	1		Standard Protection against chemically active substances				
Language:				0	1	2	3	4	5	6	German English Spanish Korean Italian French Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Spain (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

ES) Spanish version: Temperature class T10 for concrete station (inclusive), Interlocking system high-voltage side integrated in concrete station (inclusive).


Concrete station 630MV-ES incl. transformer (SC 630MV-ES)

valid from 01.07.2011 to 31.12.2011

SC 630MV-ES (price before options):	3	x	x	x	x	x	Substation with two rooms consists of: low-voltage room prepared for the installation of an inverter of the series SC630HE-11 and transformer room incl. a 630 kVA - 20/0.315 kV oil-hermetical transformer, vector group Dy11, with reduced losses.
Medium voltage transformer:	0						20 kV
	1						30 kV
	2						15 kV
Internal power supply:			0				Without
			1				10 kVA Transformer
			2				20 kVA Transformer
Medium voltage switchgear:			0				Without
			1				String connection (20 kV)
			2				Ring connection (20 kV)
Station ventilation:					0		Standard
					1		Protection against chemically active substances
Language:						0	German
						1	English
						2	Spanish
						3	Korean
						4	Italian
						5	French
						6	Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Spain (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

ES) Spanish version: Temperature class T10 for concrete station (inclusive), Interlocking system high-voltage side integrated in concrete station (inclusive).


Concrete station 500MV-ES incl. transformer (SC 500MV-ES)

valid from 01.07.2011 to 31.12.2011

SC 500MV-ES (price before options):	4	x	x	x	x	x	Substation with two rooms consists of: low-voltage room prepared for the installation of an inverter of the series SC500HE-11 and transformer room incl. a 500 kVA - 20/0.27 kV oil-hermetical transformer, vector group Dy11, with reduced losses.
Medium voltage transformer:		0 1 2					20 kV 30 kV 15 kV
Internal power supply:			0 1 2				Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:				0 1 2			Without String connection (20 kV) Ring connection (20 kV)
Station ventilation:					0 1		Standard Protection against chemically active substances
Language:						0 1 2 3 4 5 6	German English Spanish Korean Italian French Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Spain (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

ES) Spanish version: Temperature class T10 for concrete station (inclusive), Interlocking system high-voltage side integrated in concrete station (inclusive).


Concrete station 400MV-ES incl. transformer (SC 400MV-ES)

valid from 01.07.2011 to 31.12.2011

SC 400MV-ES (price before options):	5	x	x	x	x	x	Substation with two rooms consists of: low-voltage room prepared for the installation of an inverter of the series SC400HE-11 and a transformer room incl. a 500 kVA - 20/0.27 kV oil-hermetical transformer, vector group Dy11, with reduced losses.
Medium voltage transformer:	0	1	2				20 kV 30 kV 15 kV
Internal power supply:			0	1	2		Without 10 kVA Transformer 20 kVA Transformer
Medium voltage switchgear:				0	1	2	Without String connection (20 kV) Ring connection (20 kV)
Station ventilation:					0	1	Standard Protection against chemically active substances
Language:						0	German
						1	English
						2	Spanish
						3	Korean
						4	Italian
						5	French
						6	Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Spain (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

ES) Spanish version: Temperature class T10 for concrete station (inclusive), Interlocking system high-voltage side integrated in concrete station (inclusive).



Sunny Central Accessories



Sunny Main Box (SMB)

valid from 01.07.2011 to 31.12.2011

SMB (price before options):	x	x	x	x	Main DC-distribution with fuses for the single-pole connection of up to 8 Sunny String Monitors, weatherproof housing for outdoor use, up to 8 NH-fuses, cables are lead into the enclosure with metric cable glands.	
Device type:	0				1 x 8 Inputs (max. 160 A)	
DC connection:	0				14 - 28 mm (3 x M40 cable screw connection)	
	1				27 - 36 mm (2 x M50 cable screw connection)	
Fuses:		0			80 A	
			1		100 A	
				2	125 A	
					3	160 A
Language:				0	German	
					1	English
					2	Spanish
					3	Korean
					4	Italian
					5	French
					6	Chinese
					7	Polish
					8	Czech
				9	Greek	


Sunny Main Box Cabinet (SMB-C)

valid from 01.07.2011 to 31.12.2011

SMB-C (price before options):	x	x	x	x	Main DC-distribution (standing cabinet) with fuses for both polarities for the connection of up to 8 Sunny String Monitors, weatherproof housing for the external units, separate access via door for each potential, doors with triple locks and swing arm lock for profile half cylinder (can be supplied on site).
Device type:	0				2 x 8 inputs (max. 160 A)
	1				2 x (2 x 3) inputs (max. 250 A)
	2				2 x (2 x 4) inputs (max. 200 A)
DC connection:	0				Fuses in plus and minus
	1				Fuses in plus, isolating blades in minus
	2				Fuses in minus, isolating blades in plus
Fuses:	0				80 A
	1				100 A
	2				125 A
	3				160 A
	4				200 A
	5				250 A
Language:	0				German
	1				English
	2				Spanish
	3				Korean
	4				Italian
	5				French
	6				Chinese
	7				Polish
	8				Czech
	9				Greek



Sunny String Monitor (SSM)

valid from 01.07.2011 to 31.12.2011

SSM (price before options):	x	x	x	x	x	DC distribution with 8 current sensors and fuses for both polarities, incl. thermally monitored overvoltage protection. Optional connection via spring type clamp or SUNCLIX, optional switch-disconnector for output, weatherproof enclosure for outdoor use, communication unit RS485 for data transmission and evaluation with Sunny Central inverters.
Device type:	0					insulated
	1					Negative ground connection
	2					Positive ground connection
DC switch:	0					no
	1					Yes, without remote disconnection
	2					Yes, incl. remote disconnection via undervoltage release
	3					Yes, incl. remote disconnection via shunt trip
String connection:	4					2 x 16 screw connection (5 mm)
	5					2 x 16 screw connection (7 mm)
	6					2 x 16 screw connection (9 mm)
	9					Without
	A					2 x 8 SUNCLIX
	B					2 x 16 SUNCLIX
String fuse:	0					10 A (1000 V DC)
	1					12 A (1000 V DC)
	2					16 A (1000 V DC)
	3					20 A (1000 V DC)
	4					25 A (900 V DC)
	5					25 A (950 V DC)
Language:	0					German
	1					English
	2					Spanish
	3					Korean
	4					Italian
	5					French
	6					Chinese
	7					Polish
	8					Czech
	9					Greek



Sunny String Monitor SSM16-11

valid from 01.07.2011 to 31.12.2011

SSM16-11 (price before options):	x	x	x	x	x	x	x	x	x	xx	DC distribution unit with optionally 16 current sensors and fuses for both poles, including thermally monitored overvoltage protection and DC switch. String current measurement of all 16 channels incl. RS485 communication unit for data transmission and data evaluation in Sunny Central.
Cabinet:	0 1										Wall mounting Standing cabinet
Device type:	0 1										Sunny String Monitor Sunny String Box
Version:		0 1 2									insulated Negative ground connection Positive ground connection
String fuse:			0 1 2 3 4 5								10 A (1000 V) 12 A (1000 V) 16 A (1000 V) 20 A (1000 V) 25 A (900 V) 25 A (950 V)
DC switch:				2 3 4							DC switch without remote disconnection DC switch incl. remote disconnection via undervoltage release DC switch incl. remote disconnection via shunt trip
Connections per input:				0 1 2 3							without base plate 1) single assignment double plug connector double cable glands
Connector:					0 4						Without SUNCLIX
Cable glands with sealing area:					0 1 2 3 4 5						Without 5.0 to 5.5 mm 5.6 to 6.0 mm 6.1 to 7.0 mm 7.1 to 8.0 mm 8.1 to 9.0 mm
DC output:						0 1 2 3					max. 240 mm ² max. 300 mm ² max. 2 x 240 mm ² max. 2 x 300 mm ²
Language:											DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese PL Polish CZ Czech GR Greek PT Portuguese NL Dutch

1) Only for enclosure with socket, no plug connectors or cable glands



Sunny String Monitor SSM24-11

valid from 01.07.2011 to 31.12.2011

SSM24-11 (price before options):	x	x	x	x	x	x	x	x	x	xx	DC distribution with 24 current sensors and fuses for both polarities, incl. thermally monitored overvoltage protection. String current measurement of all 24 channels incl. RS485 communication unit for data transmission and data evaluation in Sunny Central.
Cabinet:	0 1										Wall mounting Enclosure with base
Device type:	0 1										Sunny String Monitor Sunny String Box
Version:		0 1 2									insulated Negative ground connection Positive ground connection
String fuse:			0 1 2 3								10 A 12 A 16 A 20 A
DC switch:				2 3 4							DC switch without remote disconnection DC switch incl. remote disconnection via undervoltage release DC switch incl. remote disconnection via shunt trip
Connections per input:					0 1 2 3						without base plate single assignment double plug connector double cable glands
Connector:						0 4					Without SUNCLIX
Cable glands with sealing area:							0 1 2 3 4 5				Without 5.0 to 5.5 mm 5.6 to 6.0 mm 6.1 to 7.0 mm 7.1 to 8.0 mm 8.1 to 9.0 mm
DC output:								0 1 2 3			max. 240 mm ² max. 300 mm ² max. 2 x 240 mm ² max. 2 x 300 mm ²
Language:											DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese PL Polish CZ Czech GR Greek PT Portuguese NL Dutch



Sunny String Box (SSB)

valid from 01.07.2011 to 31.12.2011

SSB (price before options):	x	x	x	x	x	DC distribution with 8 fuses for both polarities, incl. thermally monitored overvoltage protection. Optional connection possibilities via spring type clamp or SUNCLIX, optional switch-disconnector for output, weatherproof housing with for outdoor use.
Device type:	3					insulated
	4					Negative ground connection
	5					Positive ground connection
DC switch:	0					no
	1					Yes, without remote disconnection
	2					Yes, incl. remote disconnection via undervoltage release
	3					Yes, incl. remote disconnection via shunt trip
String connection:	4					2 x 16 screw connection (5 mm)
	5					2 x 16 screw connection (7 mm)
	6					2 x 16 screw connection (9 mm)
	9					Without
	A					2 x 8 SUNCLIX
	B					2 x 16 SUNCLIX
String fuse:	0					10 A (1000 V DC)
	1					12 A (1000 V DC)
	2					16 A (1000 V DC)
	3					20 A (1000 V DC)
	4					25 A (900 V DC)
	5					25 A (950 V DC)
Language:	0					German
	1					English
	2					Spanish
	3					Korean
	4					Italian
	5					French
	6					Chinese
	7					Polish
	8					Czech
	9					Greek



Communit

valid from 01.07.2011 to 31.12.2011

Communit-10	x	x	x	x	x	x	x	x	xx	Communication distribution box for up to 7 communication components, incl. 24 V power supply for connection to 100 ... 240 V AC, 45 ... 65 Hz.
Cabinet:	0									Wall mounting
	1									Base Mounting
	2									Mast mounting
Installation location 1	0									Without
	1									WebBox Ethernet
	2									WebBox RS485
	4									Power Reducer Box
Installation location 2			0							Without
			1							WebBox Ethernet
			2							WebBox RS485
			3							WebBox + SensorBox*1
			4							Power Reducer Box
Installation location 3			0							Without
			1							WebBox Ethernet
			2							WebBox RS485
			3							WebBox + SensorBox*1
			7							Customer installation location
Network installation location 4			0							Without
			1							Switch 8 TX
			2							Switch 2 FX-M (SC) 8 TX
			3							Switch 2 FX-S (SC) 8 TX
			B							Switch 2 FX-M (SC) 6 TX MNG
			C							Switch 2 FX-S (SC) 6 TX MNG
			D							Switch 2 FX-M (SC) 14 TX MNG
			F							Switch 2 FX-S (SC) 14 TX MNG
Network installation location 5			0							Without
			1							Switch 8 TX
			2							Switch 2 FX-M (SC) 8 TX
			3							Switch 2 FX-S (SC) 8 TX
			B							Switch 2 FX-M (SC) 6 TX MNG
			C							Switch 2 FX-S (SC) 6 TX MNG
			D							Switch 2 FX-M (SC) 14 TX MNG
			F							Switch 2 FX-S (SC) 14 TX MNG
Router:			0							Without
			1							Ethernet
			2							UMTS/GSM/GPRS
			3							DSL + modem (Annex A and B)
Power Supply:			0							Power supply unit, redundant
			2							Power supply unit redundant, buffered
Patch panel:			0							no
			1							Optical fiber splice box SC 4M
			2							Optical fiber splice box SC 4S
			3							Optical fiber splice box SC 2M2S
Language:										DE German
										EN English
										ES Spanish
										KR Korean
										IT Italian
										FR French
										CN Chinese
										PL Polish
										CZ Czech
										GR Greek
										PT Portuguese
										NL Dutch

Comments

*1 It is not possible to combine options. Only option 3/3 or 4/3 can be selected.
Market launch in quarter 4/2011



Cabinet for communication components small (Com-B)

valid from 01.07.2011 to 31.12.2011

Com-B	x	x	x	0	x	x	x	Communication distribution box for the recording of up to 7 communication components, incl. 24 V power supply unit for connection to 230 VAC/ 50 Hz							
Cabinet:	0	1	2					Indoor, wall mounting Outdoor, wall mounting Outdoor, with pedestal							
Sunny WebBox *	0	1	2	3	4	5	6	7	8	9	Without 1 Ethernet 1 RS 485*** 2 Ethernet*** 2 RS 485*** 1 Ethernet, 1 RS 485, 1 SensorBox*** 2 Ethernet, 1 RS 485, 1 SensorBox*** 1 RS 485, 1 SensorBox*** 2 RS 485, 1 SensorBox*** 3 RS 485, 1 SensorBox***				
Router:			0	1	3	4					Without GSM/GPRS DSL without Modem 3G-UMTS-Router**				
Power Reducer Box ***			0	1	2						Without one piece two pieces				
Ethernet 8-Port switch:				0	1	2					Without one piece two pieces				
RJ45/LWL converter:				0	1	2	3	4			Without one piece (Multi Mode) two pieces (Multi Mode) one piece (Single Mode) two pieces (Single Mode)				
Language:								0	1	2	3	4	5	6	German English Spanish Korean Italian French Chinese

Max. number of components COM-B for enclosure option: 0 (indoor)

Max. 3 x Sunny WebBox, thereof max. 2 Power Reducer Box
Max. 1 x router
Max. 3 components of Ethernet switch and RJ45/fiber optic converter

Max. number of components COM-B for enclosure option: 1 or 2

Max. 1 x Sunny WebBox
Max. 1 x router
Max. 3 components of Ethernet switch and RJ45/fiber optic converter

*incl. 2 GB SD card

**incl. GSM-UMTS-OUTAN antenna

***available only for enclosure option 0



Cabinet for communication components large (Com-C)

valid from 01.07.2011 to 31.12.2011

Com-C	x	x	x	x	x	x	x	Communication distribution box for the recording of up to 9 communication components, incl. 24 V power supply unit for connection to 230 VAC/ 50 Hz.
Cabinet:	0							Indoor, wall mounting
	1							Outdoor, wall mounting
	2							Outdoor, with pedestal
Sunny WebBox:	0							Without
	1							1 Ethernet
	2							2 Ethernet
	3							3 Ethernet
	4							1 RS485*
	5							2 RS485*
	6							1 Ethernet, 1 RS485, 1 SensorBox*
	7							1 RS485, 1 SensorBox*
	8							2 RS485, 1 SensorBox*
	9							3 RS485, 1 SensorBox*
Router:	0							Without
	1							one GSM/GPRS
	2							two GSM/GPRS
	5							DSL without Modem
	7							3G-UMTS-Router**
Power Reducer Box	0							Without
	1							one piece*
	2							two pieces*
Ethernet 8-Port switch:	0							Without
	1							one piece
	2							two pieces
	3							three pieces
	4							four pieces
Converter RJ45/LWL:	0							Without
	1							one piece (Multi Mode)
	2							two pieces (multi mode)
	3							three pieces (Multi Mode)
	4							four pieces (Multi Mode)
	5							one piece (Single Mode)
	6							two pieces (single mode)
	7							three pieces (Single Mode)
	8							four pieces (Single Mode)
Language:	0							German
	1							English
	2							Spanish
	3							Korean
	4							Italian
	5							French
	6							Chinese
	7							Polish
	8							Czech
	9							Greek

Max. mounting COM-C:

Max. 3 x Sunny WebBox

Max. 1 x router and max. 1 x modem or max. 2 x router

Sum of Ethernet 8-Port switch and Converter RJ45/LWL should not exceed 6 pieces

*available only for enclosure options 1 and 2

**incl. GSM-UMTS-OUTAN antenna



GSM-UMTS-OUTAN Antenna with a 5 m cable and an SMA plug for GSM and UMTS

3G-UMTS-Router VPN router for the wireless plant access for UMTS / HSDPA and GPRS



Central inverters CP



Sunny Central 800-CP-10 (SC 800-CP-10)

valid from 01.07.2011 to 31.12.2011

SC800-CP-10 (price before options):	x	x	x	x	x	x	x	x	xx	xx	x	x	x			Self-commutated converter suitable for outdoor use with IP54-protected enclosure, connection area IP 23, innovative cooling concept OptiCool, standard DC input voltage range 1000 V, (optional up to 1100V), system-integrated DC main distribution with up to 9 inputs, power-operated DC switch-disconnector, AC contactor and AC circuit breaker, overvoltage protection for AC and DC side, comprehensive grid management functions (incl. LVRT). Connection for external power supply. Designed for connection to an external transformer.
specific price 1)																
Max. DC-Power:	0															1000 V
	1															1100 V
DC connection:	0															Fuses on all poles
	1															Fuses in plus, isolating blades in minus
	2															Fuses in minus, isolating blades in plus
	4															Bus bar
DC fuses:	0															Without
	1															200 A (9 per pole)
	2															250 A (9 per pole)
	3															315 A (7 per pole)
	4															400 A (6 per pole)
	5															125 A (9 pcs. per pole)
	6															160 A (9 pcs. per pole)
Grounding:	0															Without
	1															GFDI minus grounding
	2															Remote GFDI minus grounding
	3															GFDI plus grounding
	4															Remote GFDI plus grounding
	5															Soft grounding plus
	6															Soft grounding minus
Insulation monitoring:				0												none
				1												Yes
				2												Yes, with GFDI
Communication:					0											Display
					1											no display
Fiber optic components:						0										none
						1										Fiber optic converter
Language:/Country of destination:							DE	DE								German/Germany
							EN	EN								English/England
							ES	ES								Spanish/Spain
							KR	KR								Korean/Korea
							IT	IT								Italian/Italy
							FR	FR								French/France
							CN	CN								Chinese/China
							CZ	CZ								Czech/Czech Republic
							GR	GR								Greek/Greece
							PT	PT								Portuguese/Portugal
							NL	NL								Dutch/Netherlands
							US	US								USA
AC switch:										2						With
										3						Without
String current monitoring:											0					none
											1					yes, 2 hubs
											2					yes, 3 hubs
AC voltage:												0				360 V (800 kVA)
Cabinet layout:													0			without double wall
													1			double wall
													2			For station installation

Comments

1) Can differ depending on options.



Service and Maintenance (Sunny Central 800-CP-10 price before options)

Maintenance

Scope of Maintenance

Maintenance includes labor, material and transport costs for all maintenance activities that are specified in the SMA maintenance protocol (available on SMA Homepage). Including costs for travelling and accomodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Spare Parts Guarantee

Scope Spare Parts Guarantee

Spare Parts Guarantee includes material for the devices. Labor costs are not included. Usually SMA will send the spare parts ex-works within one working day.

The Spare Part Guarantee is available worldwide. A standard shipment (transport time can differ depending on country) is included in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Diagnosis + Repair*

First** and Second Level Support by SMA

First Level Support** by Customer,
Second Level Support by SMA

Scope of Diagnosis + Repair

Diagnosis + Repair includes labor costs for all repair activities of SMA (scope depending on selected option). Costs for spare parts and transport are not included.

Including costs for travelling and accomodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Inverter Availability*

98% Inverter Availability

99% Inverter Availability

Scope of Inverter Availability

Guarantee of technical inverter availability of up to 99%. This service is available in connection with the standard factory warranty or the module Spare Parts together with the module Diagnosis + Repair.

The customer will receive an annually report of technical availability by SMA. Costs for spare parts and labor for maintenance work as well as the repair work are not included. In case the technical availability guarantee is not reached, SMA will grant a yield loss compensation of 1.40 € per kW/per day (at nominal AC Power of the defective unit) in Summer months and 1.00 € per kW/per day (at nominal AC Power of the defective unit) in Winter months. The Inverter Availability is available in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Commissioning

by SMA Servicepersonel

Scope of commissioning

Checking of the AC power cabling, checking of the DC power cabling, checking of the communication cables, setting of all relevant parameters, commissioning of all components included in delivery, briefing of the service personnel on the site.

Preconditions for the commissioning: Installation of the Sunny Central inverters following the documentation (e.g. removal of the transportation locks and installation of the inverters), connection of the entire cabling to the inverters, the Sunny String Monitors and the communication products, a minimum of 50 % of the module power must be already connected. If the preconditions are not fulfilled by the customer and SMA is therefore not in the position to execute the commissioning work, SMA will charge 1,000 € per construction site to the customer. Travel and accomodation costs of the SMA Service peronnel are charged separately.

Comments

* Only if SMA's monitoring solution (e. g. Sunny WebBox) is accessible.

** First Level Support (FLS): Detect failure type (visual, mechanical, electrical and/or software) and resolve minor defects (e. g. exchange of fuses). Inform SMA about failure, maintenance. Including First Level Support training.

In case of distance (one-way) larger than 500 km between service station and plant an Extra charge will be calculated.

Prices before options and exclusivly for the listed inverter.



Sunny Central 760-CP-10 (SC 760-CP-10)

valid from 01.07.2011 to 31.12.2011

SC760-CP-10 (price before options):	x	x	x	x	x	x	x	x	xx	xx	x	x	x	x		Self-commutated converter suitable for outdoor use with IP54-protected enclosure, connection area IP 23, innovative cooling concept OptiCool, standard DC input voltage range 1000 V, (optional up to 1100V), system-integrated DC main distribution with up to 9 inputs, power-operated DC switch-disconnector, AC contactor and AC circuit breaker, overvoltage protection for AC and DC side, comprehensive grid management functions (incl. LVRT). Connection for external power supply. Designed for connection to an external transformer.
specific price 1)																
Max. DC-Power:	0															1000 V
	1															1100 V
DC connection:	0															Fuses on all poles
	1															Fuses in plus, isolating blades in minus
	2															Fuses in minus, isolating blades in plus
	4															Bus bar
DC fuses:	0															Without
	1															200 A (9 per pole)
	2															250 A (9 per pole)
	3															315 A (7 per pole)
	4															400 A (6 per pole)
	5															125 A (9 pcs. per pole)
	6															160 A (9 pcs. per pole)
Grounding:	0															Without
	1															GFDI minus grounding
	2															Remote GFDI minus grounding
	3															GFDI plus grounding
	4															Remote GFDI plus grounding
	5															Soft grounding plus
	6															Soft grounding minus
Insulation monitoring:				0												none
				1												Yes
				2												Yes, with GFDI
Communication:					0											Display
					1											no display
Fiber optic components:						0										none
						1										Fiber optic converter
Language:/Country of destination:							DE	DE								German/Germany
							EN	EN								English/England
							ES	ES								Spanish/Spain
							KR	KR								Korean/Korea
							IT	IT								Italian/Italy
							FR	FR								French/France
							CN	CN								Chinese/China
							CZ	CZ								Czech/Czech Republic
							GR	GR								Greek/Greece
							PT	PT								Portuguese/Portugal
							NL	NL								Dutch/Netherlands
							US	US								USA
AC switch:										2						With
										3						Without
String current monitoring:											0					none
											1					yes, 2 hubs
											2					yes, 3 hubs
AC voltage:												2				342 V (760 kVA)
Cabinet layout:													0			without double wall
													1			double wall
													2			For station installation

Comments

1) Can differ depending on options.



Service and Maintenance (Sunny Central 760-CP-10 price before options)

Maintenance

Scope of Maintenance

Maintenance includes labor, material and transport costs for all maintenance activities that are specified in the SMA maintenance protocol (available on SMA Homepage). Including costs for travelling and accomodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Spare Parts Guarantee

Scope Spare Parts Guarantee

Spare Parts Guarantee includes material for the devices. Labor costs are not included. Usually SMA will send the spare parts ex-works within one working day.

The Spare Part Guarantee is available worldwide. A standard shipment (transport time can differ depending on country) is included in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Diagnosis + Repair*

First** and Second Level Support by SMA

First Level Support** by Customer,
Second Level Support by SMA

Scope of Diagnosis + Repair

Diagnosis + Repair includes labor costs for all repair activities of SMA (scope depending on selected option). Costs for spare parts and transport are not included.

Including costs for travelling and accomodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Inverter Availability*

98% Inverter Availability

99% Inverter Availability

Scope of Inverter Availability

Guarantee of technical inverter availability of up to 99%. This service is available in connection with the standard factory warranty or the module Spare Parts together with the module Diagnosis + Repair.

The customer will receive an annually report of technical availability by SMA. Costs for spare parts and labor for maintenance work as well as the repair work are not included. In case the technical availability guarantee is not reached, SMA will grant a yield loss compensation of 1.40 € per kW/per day (at nominal AC Power of the defective unit) in Summer months and 1.00 € per kW/per day (at nominal AC Power of the defective unit) in Winter months. The Inverter Availability is available in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Commissioning

by SMA Servicepersonel

Scope of commissioning

Checking of the AC power cabling, checking of the DC power cabling, checking of the communication cables, setting of all relevant parameters, commissioning of all components included in delivery, briefing of the service personnel on the site.

Preconditions for the commissioning: Installation of the Sunny Central inverters following the documentation (e.g. removal of the transportation locks and installation of the inverters), connection of the entire cabling to the inverters, the Sunny String Monitors and the communication products, a minimum of 50 % of the module power must be already connected. If the preconditions are not fulfilled by the customer and SMA is therefore not in the position to execute the commissioning work, SMA will charge 1,000 € per construction site to the customer. Travel and accomodation costs of the SMA Service peronnel are charged separately.

Comments

* Only if SMA's monitoring solution (e. g. Sunny WebBox) is accessible.

** First Level Support (FLS): Detect failure type (visual, mechanical, electrical and/or software) and resolve minor defects (e. g. exchange of fuses). Inform SMA about failure, maintenance. Including First Level Support training.

In case of distance (one-way) larger than 500 km between service station and plant an Extra charge will be calculated.

Prices before options and exclusivly for the listed inverter.



Sunny Central 720-CP-10 (SC 720-CP-10)

valid from 01.07.2011 to 31.12.2011

SC720-CP-10 (price before options):	x	x	x	x	x	x	x	xx	xx	x	x	x	x	Self-commutated converter suitable for outdoor use with IP54-protected enclosure, connection area IP 23, innovative cooling concept OptiCool, standard DC input voltage range 1000 V, (optional up to 1100V), system-integrated DC main distribution with up to 9 inputs, power-operated DC switch-disconnector, AC contactor and AC circuit breaker, overvoltage protection for AC and DC side, comprehensive grid management functions (incl. LVRT). Connection for external power supply. Designed for connection to an external transformer.
specific price 1)														
Max. DC-Power:	0													1000 V
	1													1100 V
DC connection:	0													Fuses on all poles
	1													Fuses in plus, isolating blades in minus
	2													Fuses in minus, isolating blades in plus
	4													Bus bar
DC fuses:	0													Without
	1													200 A (9 per pole)
	2													250 A (9 per pole)
	3													315 A (7 per pole)
	4													400 A (6 per pole)
	5													125 A (9 pcs. per pole)
	6													160 A (9 pcs. per pole)
Grounding:	0													Without
	1													GFDI minus grounding
	2													Remote GFDI minus grounding
	3													GFDI plus grounding
	4													Remote GFDI plus grounding
	5													Soft grounding plus
	6													Soft grounding minus
Insulation monitoring:				0										none
				1										Yes
				2										Yes, with GFDI
Communication:					0									Display
					1									no display
Fiber optic components:						0								none
						1								Fiber optic converter
Language:/Country of destination:							DE	DE						German/Germany
							EN	EN						English/England
							ES	ES						Spanish/Spain
							KR	KR						Korean/Korea
							IT	IT						Italian/Italy
							FR	FR						French/France
							CN	CN						Chinese/China
							CZ	CZ						Czech/Czech Republic
							GR	GR						Greek/Greece
							PT	PT						Portuguese/Portugal
							NL	NL						Dutch/Netherlands
								US					USA	
AC switch:									2					With
									3					Without
String current monitoring:										0				none
										1				yes, 2 hubs
										2				yes, 3 hubs
AC voltage:											4			324 V (720 kVA)
Cabinet layout:												0		without double wall
												1		double wall
												2		For station installation

Comments

1) Can differ depending on options.



Service and Maintenance (Sunny Central 720-CP-10 price before options)

Maintenance

Scope of Maintenance

Maintenance includes labor, material and transport costs for all maintenance activities that are specified in the SMA maintenance protocol (available on SMA Homepage). Including costs for travelling and accomodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Spare Parts Guarantee

Scope Spare Parts Guarantee

Spare Parts Guarantee includes material for the devices. Labor costs are not included. Usually SMA will send the spare parts ex-works within one working day.

The Spare Part Guarantee is available worldwide. A standard shipment (transport time can differ depending on country) is included in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Diagnosis + Repair*

First** and Second Level Support by SMA

First Level Support** by Customer,
Second Level Support by SMA

Scope of Diagnosis + Repair

Diagnosis + Repair includes labor costs for all repair activities of SMA (scope depending on selected option). Costs for spare parts and transport are not included.

Including costs for travelling and accomodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Inverter Availability*

98% Inverter Availability

99% Inverter Availability

Scope of Inverter Availability

Guarantee of technical inverter availability of up to 99%. This service is available in connection with the standard factory warranty or the module Spare Parts together with the module Diagnosis + Repair.

The customer will receive an annually report of technical availability by SMA. Costs for spare parts and labor for maintenance work as well as the repair work are not included. In case the technical availability guarantee is not reached, SMA will grant a yield loss compensation of 1.40 € per kW/per day (at nominal AC Power of the defective unit) in Summer months and 1.00 € per kW/per day (at nominal AC Power of the defective unit) in Winter months. The Inverter Availability is available in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Commissioning

by SMA Servicepersonel

Scope of commissioning

Checking of the AC power cabling, checking of the DC power cabling, checking of the communication cables, setting of all relevant parameters, commissioning of all components included in delivery, briefing of the service personnel on the site.

Preconditions for the commissioning: Installation of the Sunny Central inverters following the documentation (e.g. removal of the transportation locks and installation of the inverters), connection of the entire cabling to the inverters, the Sunny String Monitors and the communication products, a minimum of 50 % of the module power must be already connected. If the preconditions are not fulfilled by the customer and SMA is therefore not in the position to execute the commissioning work, SMA will charge 1,000 € per construction site to the customer. Travel and accomodation costs of the SMA Service peronnel are charged separately.

Comments

* Only if SMA's monitoring solution (e. g. Sunny WebBox) is accessible.

** First Level Support (FLS): Detect failure type (visual, mechanical, electrical and/or software) and resolve minor defects (e. g. exchange of fuses). Inform SMA about failure, maintenance. Including First Level Support training.

In case of distance (one-way) larger than 500 km between service station and plant an Extra charge will be calculated.

Prices before options and exclusivly for the listed inverter.



Sunny Central 630-CP-10 (SC 630-CP-10)

valid from 01.07.2011 to 31.12.2011

SC630-CP-10 (price before options):	x	x	x	x	x	x	x	x	xx	xx	x	x	x	x		Self-commutated converter suitable for outdoor use with IP54-protected enclosure, connection area IP 23, innovative cooling concept OptiCool, standard DC input voltage range 1000 V, (optional up to 1100V), system-integrated DC main distribution with up to 9 inputs, power-operated DC switch-disconnector, AC contactor and AC circuit breaker, overvoltage protection for AC and DC side, comprehensive grid management functions (incl. LVRT). Connection for external power supply. Designed for connection to an external transformer.	
specific price 1)																	
Max. DC-Power:	0																1000 V
	1																1100 V
DC connection:	0																Fuses on all poles
	1																Fuses in plus, isolating blades in minus
	2																Fuses in minus, isolating blades in plus
	4																Bus bar
DC fuses:	0																Without
	1																200 A (9 per pole)
	2																250 A (9 per pole)
	3																315 A (7 per pole)
	4																400 A (6 per pole)
	5																125 A (9 pcs. per pole)
	6																160 A (9 pcs. per pole)
Grounding:	0																Without
	1																GFDI minus grounding
	2																Remote GFDI minus grounding
	3																GFDI plus grounding
	4																Remote GFDI plus grounding
	5																Soft grounding plus
	6																Soft grounding minus
Insulation monitoring:				0													none
				1													Yes
				2													Yes, with GFDI
Communication:					0												Display
					1												no display
Fiber optic components:						0											none
						1											Fiber optic converter
Language:/Country of destination:									DE	DE							German/Germany
									EN	EN							English/England
									ES	ES							Spanish/Spain
									KR	KR							Korean/Korea
									IT	IT							Italian/Italy
									FR	FR							French/France
									CN	CN							Chinese/China
									CZ	CZ							Czech/Czech Republic
									GR	GR							Greek/Greece
									PT	PT							Portuguese/Portugal
								NL	NL							Dutch/Netherlands	
																USA	
AC switch:											2						With
											3						Without
String current monitoring:												0					none
												1					yes, 2 hubs
												2					yes, 3 hubs
AC voltage:													5				315 V
Cabinet layout:														0			without double wall
														1			double wall
														2			For station installation

Comments
1) Can differ depending on options.



Service and Maintenance (Sunny Central 630-CP-10 price before options)

Maintenance

Scope of Maintenance

Maintenance includes labor, material and transport costs for all maintenance activities that are specified in the SMA maintenance protocol (available on SMA Homepage). Including costs for travelling and accomodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Spare Parts Guarantee

Scope Spare Parts Guarantee

Spare Parts Guarantee includes material for the devices. Labor costs are not included. Usually SMA will send the spare parts ex-works within one working day.

The Spare Part Guarantee is available worldwide. A standard shipment (transport time can differ depending on country) is included in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Diagnosis + Repair*

First** and Second Level Support by SMA

First Level Support** by Customer,
Second Level Support by SMA

Scope of Diagnosis + Repair

Diagnosis + Repair includes labor costs for all repair activities of SMA (scope depending on selected option). Costs for spare parts and transport are not included.

Including costs for travelling and accomodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Inverter Availability*

98% Inverter Availability

99% Inverter Availability

Scope of Inverter Availability

Guarantee of technical inverter availability of up to 99%. This service is available in connection with the standard factory warranty or the module Spare Parts together with the module Diagnosis + Repair.

The customer will receive an annually report of technical availability by SMA. Costs for spare parts and labor for maintenance work as well as the repair work are not included. In case the technical availability guarantee is not reached, SMA will grant a yield loss compensation of 1.40 € per kW/per day (at nominal AC Power of the defective unit) in Summer months and 1.00 € per kW/per day (at nominal AC Power of the defective unit) in Winter months. The Inverter Availability is available in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Commissioning

by SMA Servicepersonel

Scope of commissioning

Checking of the AC power cabling, checking of the DC power cabling, checking of the communication cables, setting of all relevant parameters, commissioning of all components included in delivery, briefing of the service personnel on the site.

Preconditions for the commissioning: Installation of the Sunny Central inverters following the documentation (e.g. removal of the transportation locks and installation of the inverters), connection of the entire cabling to the inverters, the Sunny String Monitors and the communication products, a minimum of 50 % of the module power must be already connected. If the preconditions are not fulfilled by the customer and SMA is therefore not in the position to execute the commissioning work, SMA will charge 1,000 € per construction site to the customer. Travel and accomodation costs of the SMA Service peronnel are charged separately.

Comments

* Only if SMA's monitoring solution (e. g. Sunny WebBox) is accessible.

** First Level Support (FLS): Detect failure type (visual, mechanical, electrical and/or software) and resolve minor defects (e. g. exchange of fuses). Inform SMA about failure, maintenance. Including First Level Support training.

In case of distance (one-way) larger than 500 km between service station and plant an Extra charge will be calculated.

Prices before options and exclusivly for the listed inverter.



Sunny Central 500-CP-10 (SC 500-CP-10)

valid from 01.07.2011 to 31.12.2011

SC500-CP-10 (price before options):	x	x	x	x	x	x	x	x	xx	xx	x	x	x							Self-commutated converter suitable for outdoor use with IP54-protected enclosure, connection area IP 23, innovative cooling concept OptiCool, standard DC input voltage range 1000 V, (optional up to 1100V), system-integrated DC main distribution with up to 9 inputs, power-operated DC switch-disconnector, AC contactor and AC circuit breaker, overvoltage protection for AC and DC side, comprehensive grid management functions (incl. LVRT). Connection for external power supply. Designed for connection to an external transformer.
specific price 1)																				
Max. DC-Power:	0																			1000 V
	1																			1100 V
DC connection:	0																			Fuses on all poles
	1																			Fuses in plus, isolating blades in minus
	2																			Fuses in minus, isolating blades in plus
	4																			Bus bar
DC fuses:	0																			Without
	1																			200 A (9 per pole)
	2																			250 A (9 per pole)
	3																			315 A (7 per pole)
	4																			400 A (6 per pole)
	5																			125 A (9 pcs. per pole)
	6																			160 A (9 pcs. per pole)
Grounding:	0																			Without
	1																			GFDI minus grounding
	2																			Remote GFDI minus grounding
	3																			GFDI plus grounding
	4																			Remote GFDI plus grounding
	5																			Soft grounding plus
	6																			Soft grounding minus
Insulation monitoring:					0															none
					1															Yes
					2															Yes, with GFDI
Communication:						0														Display
						1														no display
Fiber optic components:							0													none
							1													Fiber optic converter
Language:/Country of destination:								DE	DE											German/Germany
								EN	EN											English/England
								ES	ES											Spanish/Spain
								KR	KR											Korean/Korea
								IT	IT											Italian/Italy
								FR	FR											French/France
								CN	CN											Chinese/China
								CZ	CZ											Czech/Czech Republic
								GR	GR											Greek/Greece
								PT	PT											Portuguese/Portugal
								NL	NL											Dutch/Netherlands
								US	US											USA
AC switch:										2										With
										3										Without
String current monitoring:											0									none
											1									yes, 2 hubs
											2									yes, 3 hubs
AC voltage:												6								270 V
Cabinet layout:													0							without double wall
													1							double wall
													2							For station installation

Comments

1) Can differ depending on options.



Service and Maintenance (Sunny Central 500-CP-10 price before options)

Maintenance

Scope of Maintenance

Maintenance includes labor, material and transport costs for all maintenance activities that are specified in the SMA maintenance protocol (available on SMA Homepage). Including costs for travelling and accomodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Spare Parts Guarantee

Scope Spare Parts Guarantee

Spare Parts Guarantee includes material for the devices. Labor costs are not included. Usually SMA will send the spare parts ex-works within one working day.

The Spare Part Guarantee is available worldwide. A standard shipment (transport time can differ depending on country) is included in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Diagnosis + Repair*

First** and Second Level Support by SMA

First Level Support** by Customer,
Second Level Support by SMA

Scope of Diagnosis + Repair

Diagnosis + Repair includes labor costs for all repair activities of SMA (scope depending on selected option). Costs for spare parts and transport are not included.

Including costs for travelling and accomodation in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Inverter Availability*

98% Inverter Availability

99% Inverter Availability

Scope of Inverter Availability

Guarantee of technical inverter availability of up to 99%. This service is available in connection with the standard factory warranty or the module Spare Parts together with the module Diagnosis + Repair.

The customer will receive an annually report of technical availability by SMA. Costs for spare parts and labor for maintenance work as well as the repair work are not included. In case the technical availability guarantee is not reached, SMA will grant a yield loss compensation of 1.40 € per kW/per day (at nominal AC Power of the defective unit) in Summer months and 1.00 € per kW/per day (at nominal AC Power of the defective unit) in Winter months. The Inverter Availability is available in the following countries: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Greece, Italy, India, Luxembourg, Netherlands, Portugal, Suisse, Spain, South Korea.

For further information please refer to the Sunny Central Service data sheet and as well to the service contract.

Commissioning

by SMA Servicepersonel

Scope of commissioning

Checking of the AC power cabling, checking of the DC power cabling, checking of the communication cables, setting of all relevant parameters, commissioning of all components included in delivery, briefing of the service personnel on the site.

Preconditions for the commissioning: Installation of the Sunny Central inverters following the documentation (e.g. removal of the transportation locks and installation of the inverters), connection of the entire cabling to the inverters, the Sunny String Monitors and the communication products, a minimum of 50 % of the module power must be already connected. If the preconditions are not fulfilled by the customer and SMA is therefore not in the position to execute the commissioning work, SMA will charge 1,000 € per construction site to the customer. Travel and accomodation costs of the SMA Service peronnel are charged separately.

Comments

* Only if SMA's monitoring solution (e. g. Sunny WebBox) is accessible.

** First Level Support (FLS): Detect failure type (visual, mechanical, electrical and/or software) and resolve minor defects (e. g. exchange of fuses). Inform SMA about failure, maintenance. Including First Level Support training.

In case of distance (one-way) larger than 500 km between service station and plant an Extra charge will be calculated.

Prices before options and exclusivly for the listed inverter.



Stations und Transformers



Transformer Compact Station for SC-CP-Inverter (TCS 1600SC-DE)

valid from 01.07.2011 to 31.12.2011

TCS 1600SC-DE (price before options):	5	x	x	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.
Cabinet:	0	1											Steel compact station Concrete compact station
LV power switch:			0	1									Without With
Medium voltage transformer:					0	1							Transformer with iron core Transformer with amorphous core
Internal power supply:							0	1					Without 6 kVA Transformer
Medium voltage switchgear:							0	1	2				Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:								0	1				Standard Protection against chemically active substances
Base for inverter:									0	2			Without two pieces
Cable set for inverter:									0	1	2	3	Without Length: 2 x 5 m Length: 2 x 10 m Length: 2 x 15 m
Language:													DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

DE) Version for Germany

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 1250SC-DE)

valid from 01.07.2011 to 31.12.2011

TCS 1250SC-DE (price before options):	4	x	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.
Cabinet:		0 1										Steel compact station Concrete compact station
LV power switch:			0 1									Without With
Medium voltage transformer:				0 1								Transformer with iron core Transformer with amorphous core
Internal power supply:					0 1							Without 6 kVA Transformer
Medium voltage switchgear:						0 1 2						Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:							0 1					Standard Protection against chemically active substances
Base for inverter:								0 2				Without two pieces
Cable set for inverter:									0 1 2 3			Without Length: 2 x 5 m Length: 2 x 10 m Length: 2 x 15 m
Language:										DE EN ES KR IT FR CN		German English Spanish Korean Italian French Chinese

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

DE) Version for Germany

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 1000SC-DE)

valid from 01.07.2011 to 31.12.2011

TCS 1000SC-DE (price before options):	3	x	x	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.
Cabinet:	0 1												Steel compact station Concrete compact station
LV power switch:	0 1												Without With
Medium voltage transformer:			0 1										Transformer with iron core Transformer with amorphous core
Internal power supply:				0 1									Without 6 kVA Transformer
Medium voltage switchgear:					0 1 2								Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:						0 1							Standard Protection against chemically active substances
Base for inverter:							0 2						Without two pieces
Cable set for inverter:								0 1 2 3					Without Length: 2 x 5 m Length: 2 x 10 m Length: 2 x 15 m
Language:													DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

DE) Version for Germany

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 800SC-DE)

valid from 01.07.2011 to 31.12.2011

TCS 800SC-DE (price before options):	2	x	x	x	x	x	x	x	x	x	x	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.
Cabinet:	0	1										Steel compact station Concrete compact station
LV power switch:		0	1									Without With
Medium voltage transformer:			0	1								Transformer with iron core Transformer with amorphous core
Internal power supply:				0	1							Without 3 kVA Transformer
Medium voltage switchgear:					0	1	2					Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:					0	1						Standard Protection against chemically active substances
Base for inverter:						0	1					Without one piece
Cable set for inverter:							0	1	2	3		Without Length: 1 x 5 m Length: 1 x 10 m Length: 1 x 15 m
Language:											DE	German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

DE) Version for Germany

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 630SC-DE)

valid from 01.07.2011 to 31.12.2011

TCS 630SC-DE (price before options):	1	x	x	x	x	x	x	x	x	x	x	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.
Cabinet:		0 1										Steel compact station Concrete compact station
LV power switch:			0 1									Without With
Medium voltage transformer:				0 1								Transformer with iron core Transformer with amorphous core
Internal power supply:					0 1							Without 3 kVA Transformer
Medium voltage switchgear:						0 1 2						Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:							0 1					Standard Protection against chemically active substances
Base for inverter:								0 1				Without one piece
Cable set for inverter:									0 1 2 3			Without Length: 1 x 5 m Length: 1 x 10 m Length: 1 x 15 m
Language:										DE EN ES KR IT FR CN		German English Spanish Korean Italian French Chinese

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

DE) Version for Germany

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 500SC-DE)

valid from 01.07.2011 to 31.12.2011

TCS 500SC-DE (price before options):	0	x	x	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.
Cabinet:	0 1												Steel compact station Concrete compact station
LV power switch:	0 1												Without With
Medium voltage transformer:			0 1										Transformer with iron core Transformer with amorphous core
Internal power supply:				0 1									Without 3 kVA Transformer
Medium voltage switchgear:					0 1 2								Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:						0 1							Standard Protection against chemically active substances
Base for inverter:							0 1						Without one piece
Cable set for inverter:								0 1 2 3					Without Length: 1 x 5 m Length: 1 x 10 m Length: 1 x 15 m
Language:												DE EN ES KR IT FR CN	German English Spanish Korean Italian French Chinese

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Germany (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

DE) Version for Germany

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 1600SC-IT)

valid from 01.07.2011 to 31.12.2011

TCS 1600SC-IT (price before options):	5	x	x	x	x	x	x	x	x	x	x	x	x	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:	0													Concrete compact station
LV power switch:		0	1											Without With
Counter for low voltage side			0	1										Without With
Internal power supply:				0	1									Without With
Medium voltage switchgear:					0	1	2							Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:						0	1							Standard Protection against chemically active substances
Base for inverter:							0	2						Without two pieces
Cable set for inverter:								0	1	2	3			Without Length: 2 x 5 m Length: 2 x 10 m Length: 2 x 15 m
Language:												DE		German
												EN		English
												ES		Spanish
												KR		Korean
												IT		Italian
												FR		French
												CN		Chinese
Transport & SC CP connection*													0	Without
													1	With

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Italy (mainland, Sardinia and Sicily).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

IT) Italian version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.

*The Sunny Centrals will be transported directly to the construction site and unloaded there. In addition, the electrical connection between Sunny Central CP and TCS will be executed (preparation and cabling to be provided on-site)



Transformer Compact Station for SC-CP-Inverter (TCS 1000SC-IT)

valid from 01.07.2011 to 31.12.2011

TCS 1000SC-IT (price before options):	3	x	x	x	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		0												Concrete compact station
LV power switch:			0											Without With
Counter for low voltage side				0										Without With
Internal power supply:					0									Without With
Medium voltage switchgear:						0								Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:							0							Standard Protection against chemically active substances
Base for inverter:								0						Without two pieces
Cable set for inverter:									0					Without Length: 2 x 5 m Length: 2 x 10 m Length: 2 x 15 m
Language:													DE EN ES KR IT FR CN	German English Spanish Korean Italian French Chinese
Transport & SC CP connection*													0 1	Without With

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Italy (mainland, Sardinia and Sicily).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

IT) Italian version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.

*The Sunny Centrals will be transported directly to the construction site and unloaded there. In addition, the electrical connection between Sunny Central CP and TCS will be executed (preparation and cabling to be provided on-site)



Transformer Compact Station for SC-CP-Inverter (TCS 800SC-IT)

valid from 01.07.2011 to 31.12.2011

TCS 800SC-IT (price before options):	2	x	x	x	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		0												Concrete compact station
LV power switch:			0											Without With
Counter for low voltage side				0										Without With
Internal power supply:					0									Without With
Medium voltage switchgear:						0								Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:							0							Standard Protection against chemically active substances
Base for inverter:								0						Without one piece
Cable set for inverter:									0					Without Length: 1 x 5 m Length: 1 x 10 m Length: 1 x 15 m
Language:													DE EN ES KR IT FR CN	German English Spanish Korean Italian French Chinese
Transport & SC CP connection*													0 1	Without With

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Italy (mainland, Sardinia and Sicily).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

IT) Italian version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.

*The Sunny Centrals will be transported directly to the construction site and unloaded there. In addition, the electrical connection between Sunny Central CP and TCS will be executed (preparation and cabling to be provided on-site)



Transformer Compact Station for SC-CP-Inverter (TCS 630SC-IT)

valid from 01.07.2011 to 31.12.2011

TCS 630SC-IT (price before options):	1	x	x	x	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		0												Concrete compact station
LV power switch:			0											Without With
Counter for low voltage side				0										Without With
Internal power supply:					0									Without With
Medium voltage switchgear:						0								Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:							0							Standard Protection against chemically active substances
Base for inverter:								0						Without one piece
Cable set for inverter:									0					Without Length: 1 x 5 m Length: 1 x 10 m Length: 1 x 15 m
Language:													DE EN ES KR IT FR CN	German English Spanish Korean Italian French Chinese
Transport & SC CP connection*													0 1	Without With

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Italy (mainland, Sardinia and Sicily).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

IT) Italian version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.

*The Sunny Centrals will be transported directly to the construction site and unloaded there. In addition, the electrical connection between Sunny Central CP and TCS will be executed (preparation and cabling to be provided on-site)



Transformer Compact Station for SC-CP-Inverter (TCS 500SC-IT)

valid from 01.07.2011 to 31.12.2011

TCS 500SC-IT (price before options):	0	x	x	x	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:	0													Concrete compact station
LV power switch:			0											Without With
Counter for low voltage side				0										Without With
Internal power supply:					0									Without With
Medium voltage switchgear:						0								Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:							0							Standard Protection against chemically active substances
Base for inverter:								0						Without one piece
Cable set for inverter:									0					Without Length: 1 x 5 m Length: 1 x 10 m Length: 1 x 15 m
Language:													DE EN ES KR IT FR CN	German English Spanish Korean Italian French Chinese
Transport & SC CP connection*													0 1	Without With

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Italy (mainland, Sardinia and Sicily).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

IT) Italian version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.

*The Sunny Centrals will be transported directly to the construction site and unloaded there. In addition, the electrical connection between Sunny Central CP and TCS will be executed (preparation and cabling to be provided on-site)



Transformer Compact Station for SC-CP-Inverter (TCS 1600SC-FR)

valid from 01.07.2011 to 31.12.2011

TCS 1600SC-FR (price before options):	5	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.	
Cabinet:	0										Concrete compact station	
Internal power supply:			0	1							Without 6 kVA Transformer	
Medium voltage switchgear:				0	1	2					Without String connection (20 kV) Ring connection (20 kV)	
Cascaded medium voltage switch gear:					0	1					Without With	
Surrounding area:						0	1				Standard Protection against chemically active substances	
Base for inverter:							0	2			Without two pieces	
Cable set for inverter:								0	1	2	3	Without Length: 2 x 5 m Length: 2 x 10 m Length: 2 x 15 m
Language:												DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within France (not including islands, not including overseas).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

FR) France version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 1250SC-FR)

valid from 01.07.2011 to 31.12.2011

TCS 1250SC-FR (price before options):	4	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.	
Cabinet:	0										Concrete compact station	
Internal power supply:			0	1							Without 6 kVA Transformer	
Medium voltage switchgear:				0	1	2					Without String connection (20 kV) Ring connection (20 kV)	
Cascaded medium voltage switch gear:					0	1					Without With	
Surrounding area:						0	1				Standard Protection against chemically active substances	
Base for inverter:							0	2			Without two pieces	
Cable set for inverter:								0	1	2	3	Without Length: 2 x 5 m Length: 2 x 10 m Length: 2 x 15 m
Language:												DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within France (not including islands, not including overseas).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

FR) France version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 1000SC-FR)

valid from 01.07.2011 to 31.12.2011

TCS 1000SC-FR (price before options):	3	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.	
Cabinet:	0										Concrete compact station	
Internal power supply:			0	1							Without 6 kVA Transformer	
Medium voltage switchgear:				0	1	2					Without String connection (20 kV) Ring connection (20 kV)	
Cascaded medium voltage switch gear:					0	1					Without With	
Surrounding area:						0	1				Standard Protection against chemically active substances	
Base for inverter:							0	2			Without two pieces	
Cable set for inverter:								0	1	2	3	Without Length: 2 x 5 m Length: 2 x 10 m Length: 2 x 15 m
Language:												DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within France (not including islands, not including overseas).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

FR) France version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 800SC-FR)

valid from 01.07.2011 to 31.12.2011

TCS 800SC-FR (price before options):	2	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.	
Cabinet:	0										Concrete compact station	
Internal power supply:			0	1							Without 3 kVA Transformer	
Medium voltage switchgear:				0	1	2					Without String connection (20 kV) Ring connection (20 kV)	
Cascaded medium voltage switch gear:					0	1					Without With	
Surrounding area:						0	1				Standard Protection against chemically active substances	
Base for inverter:							0	1			Without one piece	
Cable set for inverter:								0	1	2	3	Without Length: 1 x 5 m Length: 1 x 10 m Length: 1 x 15 m
Language:												DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within France (not including islands, not including overseas).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

FR) France version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 630SC-FR)

valid from 01.07.2011 to 31.12.2011

TCS 630SC-FR (price before options):	1	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.	
Cabinet:		0									Concrete compact station	
Internal power supply:			0	1							Without 3 kVA Transformer	
Medium voltage switchgear:				0	1	2					Without String connection (20 kV) Ring connection (20 kV)	
Cascaded medium voltage switch gear:					0	1					Without With	
Surrounding area:						0	1				Standard Protection against chemically active substances	
Base for inverter:							0	1			Without one piece	
Cable set for inverter:								0	1	2	3	Without Length: 1 x 5 m Length: 1 x 10 m Length: 1 x 15 m
Language:												DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within France (not including islands, not including overseas).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

FR) France version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 500SC-FR)

valid from 01.07.2011 to 31.12.2011

TCS 500SC-FR (price before options):	0	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.	
Cabinet:	0										Concrete compact station	
Internal power supply:			0	1							Without 3 kVA Transformer	
Medium voltage switchgear:				0	1	2					Without String connection (20 kV) Ring connection (20 kV)	
Cascaded medium voltage switch gear:					0	1					Without With	
Surrounding area:						0	1				Standard Protection against chemically active substances	
Base for inverter:							0	1			Without one piece	
Cable set for inverter:								0	1	2	3	Without Length: 1 x 5 m Length: 1 x 10 m Length: 1 x 15 m
Language:												DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within France (not including islands, not including overseas).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

FR) France version: Temperatur class T10 for Concrete station (inclusive), Interlocking-System upper voltage side integrated in Concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 1600SC-ES)

valid from 01.07.2011 to 31.12.2011

TCS 1600SC-ES (price before options):	5	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.	
Cabinet:	0										Concrete compact station	
LV power switch:			0	1							Without With	
Internal power supply:				0	1						Without 6 kVA Transformer	
Medium voltage switchgear:					0	1	2				Without String connection (20 kV) Ring connection (20 kV)	
Surrounding area:						0	1				Standard Protection against chemically active substances	
Base for inverter:							0	2			Without two pieces	
Cable set for inverter:								0	1	2	3	Without Length: 2 x 5 m Length: 2 x 10 m Length: 2 x 15 m
Language:												DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

ES) Spanish version: Temperature class T10 for concrete station (inclusive), Interlocking system high-voltage side integrated in concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 1250SC-ES)

valid from 01.07.2011 to 31.12.2011

TCS 1250SC-ES (price before options):	4	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.
Cabinet:	0										Concrete compact station
LV power switch:			0	1							Without With
Internal power supply:				0	1						Without 6 kVA Transformer
Medium voltage switchgear:				0	1	2					Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:					0	1					Standard Protection against chemically active substances
Base for inverter:						0	2				Without two pieces
Cable set for inverter:							0	1	2	3	Without Length: 2 x 5 m Length: 2 x 10 m Length: 2 x 15 m
Language:											DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

ES) Spanish version: Temperature class T10 for concrete station (inclusive), Interlocking system high-voltage side integrated in concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 1000SC-ES)

valid from 01.07.2011 to 31.12.2011

TCS 1000SC-ES (price before options):	3	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.
Cabinet:	0										Concrete compact station
LV power switch:			0 1								Without With
Internal power supply:				0 1							Without 6 kVA Transformer
Medium voltage switchgear:					0 1 2						Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:						0 1					Standard Protection against chemically active substances
Base for inverter:							0 2				Without two pieces
Cable set for inverter:								0 1 2 3			Without Length: 2 x 5 m Length: 2 x 10 m Length: 2 x 15 m
Language:											DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

ES) Spanish version: Temperature class T10 for concrete station (inclusive), Interlocking system high-voltage side integrated in concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 800SC-ES)

valid from 01.07.2011 to 31.12.2011

TCS 800SC-ES (price before options):	2	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.	
Cabinet:	0										Concrete compact station	
LV power switch:			0	1							Without With	
Internal power supply:				0	1						Without 3 kVA Transformer	
Medium voltage switchgear:					0	1	2				Without String connection (20 kV) Ring connection (20 kV)	
Surrounding area:						0	1				Standard Protection against chemically active substances	
Base for inverter:							0	1			Without one piece	
Cable set for inverter:								0	1	2	3	Without Length: 1 x 5 m Length: 1 x 10 m Length: 1 x 15 m
Language:												DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

ES) Spanish version: Temperature class T10 for concrete station (inclusive), Interlocking system high-voltage side integrated in concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 630SC-ES)

valid from 01.07.2011 to 31.12.2011

TCS 630SC-ES (price before options):	1	x	x	x	x	x	x	x	x	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:	0									Concrete compact station
LV power switch:			0 1							Without With
Internal power supply:				0 1						Without 3 kVA Transformer
Medium voltage switchgear:					0 1 2					Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:						0 1				Standard Protection against chemically active substances
Base for inverter:							0 1			Without one piece
Cable set for inverter:								0 1 2 3		Without Length: 1 x 5 m Length: 1 x 10 m Length: 1 x 15 m
Language:										DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

ES) Spanish version: Temperature class T10 for concrete station (inclusive), Interlocking system high-voltage side integrated in concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 500SC-ES)

valid from 01.07.2011 to 31.12.2011

TCS 500SC-ES (price before options):	0	x	x	x	x	x	x	x	x	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.
Cabinet:	0									Concrete compact station
LV power switch:			0 1							Without With
Internal power supply:				0 1						Without 3 kVA Transformer
Medium voltage switchgear:					0 1 2					Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:						0 1				Standard Protection against chemically active substances
Base for inverter:							0 1			Without one piece
Cable set for inverter:								0 1 2 3		Without Length: 1 x 5 m Length: 1 x 10 m Length: 1 x 15 m
Language:										DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

ES) Spanish version: Temperature class T10 for concrete station (inclusive), Interlocking system high-voltage side integrated in concrete station (inclusive).

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 1600SC-CZ)

valid from 01.07.2011 to 31.12.2011

TCS 1600SC-CZ (price before options):	5	x	x	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 22 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.	
Cabinet:		1											Concrete compact station	
LV power switch:			0	1									Without With	
Medium voltage transformer:				0									Transformer with iron core	
Internal power supply:					0	1							Without 6 kVA Transformer	
Medium voltage switchgear:						0	1	2					Without String connection (22 kV) Ring connection (22 kV)	
Surrounding area:							0	1					Standard Protection against chemically active substances	
Base for inverter:								0	2				Without two pieces	
Cable set for inverter:										0	1	2	3	Without Length: 2 x 5 m Length: 2 x 10 m Length: 2 x 15 m
Language:														DE German CZ Czech EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the offloading site.

Prices valid for delivery within the Czech Republic and Slovakia

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

CZ) Version for the Czech Republic and Slovakia

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 1250SC-CZ)

valid from 01.07.2011 to 31.12.2011

TCS 1250SC-CZ (price before options):	4	x	x	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 22 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.
Cabinet:		1											Concrete compact station
LV power switch:			0 1										Without With
Medium voltage transformer:				0									Transformer with iron core
Internal power supply:					0 1								Without 6 kVA Transformer
Medium voltage switchgear:						0 1 2							Without String connection (22 kV) Ring connection (22 kV)
Surrounding area:							0 1						Standard Protection against chemically active substances
Base for inverter:								0 2					Without two pieces
Cable set for inverter:									0 1 2 3				Without Length: 2 x 5 m Length: 2 x 10 m Length: 2 x 15 m
Language:													DE German CZ Czech EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the offloading site.

Prices valid for delivery within the Czech Republic and Slovakia

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

CZ) Version for the Czech Republic and Slovakia

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 1000SC-CZ)

valid from 01.07.2011 to 31.12.2011

TCS 1000SC-CZ (price before options):	3	x	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 22 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.	
Cabinet:		1										Concrete compact station	
LV power switch:			0	1								Without With	
Medium voltage transformer:				0								Transformer with iron core	
Internal power supply:					0	1						Without 6 kVA Transformer	
Medium voltage switchgear:						0	1	2				Without String connection (22 kV) Ring connection (22 kV)	
Surrounding area:							0	1				Standard Protection against chemically active substances	
Base for inverter:								0	2			Without two pieces	
Cable set for inverter:									0	1	2	3	Without Length: 2 x 5 m Length: 2 x 10 m Length: 2 x 15 m
Language:													DE German CZ Czech EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within the Czech Republic and Slovakia

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

CZ) Version for the Czech Republic and Slovakia

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 630SC-CZ)

valid from 01.07.2011 to 31.12.2011

TCS 630SC-CZ (price before options):	1	x	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 22 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.
Cabinet:	1											Concrete compact station
LV power switch:			0 1									Without With
Medium voltage transformer:				0								Transformer with iron core
Internal power supply:					0 1							Without 3 kVA Transformer
Medium voltage switchgear:						0 1 2						Without String connection (22 kV) Ring connection (22 kV)
Surrounding area:							0 1					Standard Protection against chemically active substances
Base for inverter:								0 1				Without one piece
Cable set for inverter:									0 1 2 3			Without Length: 1 x 5 m Length: 1 x 10 m Length: 1 x 15 m
Language:												DE German CZ Czech EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and offloading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within the Czech Republic and Slovakia

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

CZ) Version for the Czech Republic and Slovakia

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 1600SC-BG)

valid from 01.07.2011 to 31.12.2011

TCS 1600SC-BG (price before options):	5	x	x	x	x	x	x	x	x	x	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:	1										Concrete compact station
LV power switch:			0	1							Without With
Internal power supply:			0	1							Without 6 kVA Transformer
Medium voltage switchgear:				0	1	2					Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:					0	1					Standard Protection against chemically active substances
Base for inverter:						0	2				Without two pieces
Cable set for inverter:							0	1	2	3	Without Length: 2 x 5 m Length: 2 x 10 m Length: 2 x 15 m
Language:											DE German BG Bulgarian EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Bulgaria (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

BG) Version for Bulgaria

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 1250SC-BG)

valid from 01.07.2011 to 31.12.2011

TCS 1250SC-BG (price before options):	4	x	x	x	x	x	x	x	x	x	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:	1										Concrete compact station
LV power switch:			0	1							Without With
Internal power supply:			0	1							Without 6 kVA Transformer
Medium voltage switchgear:				0	1	2					Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:					0	1					Standard Protection against chemically active substances
Base for inverter:						0	2				Without two pieces
Cable set for inverter:							0	1	2	3	Without Length: 2 x 5 m Length: 2 x 10 m Length: 2 x 15 m
Language:											DE German BG Bulgarian EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Bulgaria (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

BG) Version for Bulgaria

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 1000SC-BG)

valid from 01.07.2011 to 31.12.2011

TCS 1000SC-BG (price before options):	3	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		1									Concrete compact station
LV power switch:			0	1							Without With
Internal power supply:				0	1						Without 6 kVA Transformer
Medium voltage switchgear:				0	1	2					Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:					0	1					Standard Protection against chemically active substances
Base for inverter:						0	2				Without two pieces
Cable set for inverter:							0	1	2	3	Without Length: 2 x 5 m Length: 2 x 10 m Length: 2 x 15 m
Language:											DE German BG Bulgarian EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Bulgaria (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

BG) Version for Bulgaria

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 800SC-BG)

valid from 01.07.2011 to 31.12.2011

TCS 800SC-BG (price before options):	2	x	x	x	x	x	x	x	x	x	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		1									Concrete compact station
LV power switch:			0	1							Without With
Internal power supply:				0	1						Without 3 kVA Transformer
Medium voltage switchgear:				0	1	2					Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:					0	1					Standard Protection against chemically active substances
Base for inverter:					0	1					Without one piece
Cable set for inverter:					0	1	2	3			Without Length: 1 x 5 m Length: 1 x 10 m Length: 1 x 15 m
Language:											DE German BG Bulgarian EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Bulgaria (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

BG) Version for Bulgaria

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 630SC-BG)

valid from 01.07.2011 to 31.12.2011

TCS 630SC-BG (price before options):	1	x	x	x	x	x	x	x	x	The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.
Cabinet:	1									Concrete compact station
LV power switch:			0 1							Without With
Internal power supply:				0 1						Without 3 kVA Transformer
Medium voltage switchgear:					0 1 2					Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:						0 1				Standard Protection against chemically active substances
Base for inverter:							0 1			Without one piece
Cable set for inverter:								0 1 2 3		Without Length: 1 x 5 m Length: 1 x 10 m Length: 1 x 15 m
Language:										DE German BG Bulgarian EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Bulgaria (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

BG) Version for Bulgaria

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 500SC-BG)

valid from 01.07.2011 to 31.12.2011

TCS 500SC-BG (price before options):	0	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20°C to +45°C.
Cabinet:		1									Concrete compact station
LV power switch:			0	1							Without With
Internal power supply:				0	1						Without 3 kVA Transformer
Medium voltage switchgear:				0	1	2					Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:					0	1					Standard Protection against chemically active substances
Base for inverter:					0	1					Without one piece
Cable set for inverter:					0	1	2	3			Without Length: 1 x 5 m Length: 1 x 10 m Length: 1 x 15 m
Language:											DE German BG Bulgarian EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Bulgaria (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

BG) Version for Bulgaria

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 1250SC-GR)

valid from 01.07.2011 to 31.12.2011

TCS 1250SC-GR (price before options):	4	x	x	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.
Cabinet:		0											Steel compact station
LV power switch:			0										Without With
Medium voltage transformer:				0									Transformer with iron core Transformer with amorphous core
Internal power supply:					0								Without 6 kVA Transformer
Medium voltage switchgear:						0							Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:							0						Standard Protection against chemically active substances
Base for inverter:								0					Without two pieces
Cable set for inverter:									0				Without Length: 2 x 5 m Length: 2 x 10 m Length: 2 x 15 m
Language:													DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

GR) Version for Greece

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 1000SC-GR)

valid from 01.07.2011 to 31.12.2011

TCS 1000SC-GR (price before options):	3	x	x	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.
Cabinet:	0												Steel compact station
LV power switch:			0	1									Without With
Medium voltage transformer:			0	1									Transformer with iron core Transformer with amorphous core
Internal power supply:				0	1								Without 6 kVA Transformer
Medium voltage switchgear:					0	1	2						Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:						0	1						Standard Protection against chemically active substances
Base for inverter:							0	2					Without two pieces
Cable set for inverter:								0	1	2	3		Without Length: 2 x 5 m Length: 2 x 10 m Length: 2 x 15 m
Language:													DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

GR) Version for Greece

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 800SC-GR)

valid from 01.07.2011 to 31.12.2011

TCS 800SC-GR (price before options):	2	x	x	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.
Cabinet:		0											Steel compact station
LV power switch:			0										Without With
Medium voltage transformer:				0									Transformer with iron core Transformer with amorphous core
Internal power supply:					0								Without 3 kVA Transformer
Medium voltage switchgear:						0							Without String connection (20 kV) Ring connection (20 kV)
Surrounding area:							0						Standard Protection against chemically active substances
Base for inverter:								0					Without one piece
Cable set for inverter:									0				Without Length: 1 x 5 m Length: 1 x 10 m Length: 1 x 15 m
Language:													DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

GR) Version for Greece

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 630SC-GR)

valid from 01.07.2011 to 31.12.2011

TCS 630SC-GR (price before options):	1	x	x	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.	
Cabinet:		0											Steel compact station	
LV power switch:			0	1									Without With	
Medium voltage transformer:				0	1								Transformer with iron core Transformer with amorphous core	
Internal power supply:					0	1							Without 3 kVA Transformer	
Medium voltage switchgear:						0	1	2					Without String connection (20 kV) Ring connection (20 kV)	
Surrounding area:							0	1					Standard Protection against chemically active substances	
Base for inverter:								0	1				Without one piece	
Cable set for inverter:										0	1	2	3	Without Length: 1 x 5 m Length: 1 x 10 m Length: 1 x 15 m
Language:														DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

GR) Version for Greece

The transport costs for release orders and/or orders of individual components will be charged separately.



Transformer Compact Station for SC-CP-Inverter (TCS 500SC-GR)

valid from 01.07.2011 to 31.12.2011

TCS 500SC-GR (price before options):	0	x	x	x	x	x	x	x	x	x	x		The compact station comes with an oil-hermetic transformer for 20 kV, vector group Dy11y11, with reduced losses and is permitted for ambient temperatures from -20 °C to +45 °C.	
Cabinet:	0												Steel compact station	
LV power switch:			0	1									Without With	
Medium voltage transformer:				0	1								Transformer with iron core Transformer with amorphous core	
Internal power supply:					0	1							Without 3 kVA Transformer	
Medium voltage switchgear:						0	1	2					Without String connection (20 kV) Ring connection (20 kV)	
Surrounding area:							0	1					Standard Protection against chemically active substances	
Base for inverter:								0	1				Without one piece	
Cable set for inverter:										0	1	2	3	Without Length: 1 x 5 m Length: 1 x 10 m Length: 1 x 15 m
Language:														DE German EN English ES Spanish KR Korean IT Italian FR French CN Chinese

Comments

Incl. transport, transport insurance and off-loading in the excavation prepared customer-side. The customer guarantees unlimited access to the off-loading site.

Prices valid for delivery within Greece (not including islands).

CIP INCOTERMS® 2010

Depending on country-specific requirements the price and technical parameters can vary.

GR) Version for Greece

The transport costs for release orders and/or orders of individual components will be charged separately.



Sunny CP Accessories



SC-XXX-CP-KIT-SMB The SMB connection kit is part of the accessories to connect the Sunny Main Box to the following inverters:

SC 800CP-10
SC 760CP-10
SC 720CP-10
SC 630CP-10
SC 500CP-10

The busbar enables the connection of up to 4 DC cables.

65-99006109 Concrete base for inverters (Country DE):

SC 800CP-10
SC 760CP-10
SC 720CP-10
SC 630CP-10
SC 500CP-10

65-99004111 Steel base for inverters (Country DE):

SC 800CP-10
SC 760CP-10
SC 720CP-10
SC 630CP-10
SC 500CP-10

65-99003121 Concrete base for inverters (Country IT):

SC 800CP-10
SC 760CP-10
SC 720CP-10
SC 630CP-10
SC 500CP-10

65-99005109 Concrete base for inverters (Country FR):

SC 800CP-10
SC 760CP-10
SC 720CP-10
SC 630CP-10
SC 500CP-10

41-5320 Cable set 5 m for TCS-SC (Countries DE, FR, ES, CZ, BG, GR)

41-5319 Cable set 10 m for TCS-SC (Countries DE, FR, ES, CZ, BG, GR)

41-5318 Cable set 15 m for TCS-SC (Countries DE, FR, ES, CZ, BG, GR)

Communication




Sunny Beam with Bluetooth®

valid from 01.07.2011 to 31.12.2011

BEAM-BT (price before options):	Sunny Beam with Bluetooth® Wireless Technology xx Wireless plant monitoring for up to 12 Sunny Boy and/or Sunny Mini Central inverters, incl. USB cable
Language:	AU Australia (Documentation: English) BE Belgium (Documentation: German, Dutch, French) CZ Czech Republic (Documentation: Czech) DE Germany (Documentation: German) ES Spain (Documentation: Spanish) FR France (Documentation: French) GB Great Britain (Documentation: English) GR Greece (documentation: Greek) IT Italy (Documentation: Italian) NL Netherlands (Documentation: Dutch) PT Portugal (Documentation: Portuguese) US USA (Documentation: English)

BEAM-BT-BATTERY 2 NiMH spare batteries for Sunny Beam with Bluetooth®, rechargeable

BEAM-BT-SUPPLY USB plug-in power supply to charge the Sunny Beam batteries (EU, US, UK)

SBEAM-BAT Spare batteries (2 pSC.), rechargeable

BEAM-AW15 External antenna kit 1.5 m extension cable

BEAM-AW100 External antenna kit 10 m extension cable



SMA Bluetooth® Repeater

valid from 01.07.2011 to 31.12.2011

BTREP-IN (price before options):	x xx	SMA Bluetooth® repeater for increasing the range of SMA Bluetooth® products for use indoors
Power supply:	1 2	with plug-in power supply Power Modul, without plug-in power supply, not for USA
Language:	AU BE CZ DE ES FR GB GR IT KR NL PT US	Australia (Documentation: English) Belgium (Documentation: German, Dutch, French) Czech Republic (Documentation: Czech) Germany (Documentation: German) Spain (Documentation: Spanish) France (Documentation: French) Great Britain (Documentation: English) Greece (documentation: Greek) Italy (Documentation: Italian) Korea (Documentation: Korean) Netherlands (Documentation: Dutch) Portugal (Documentation: Portuguese) USA (Documentation: English)

valid from 01.07.2011 to 31.12.2011

BTREP-OUT (price before options):	x xx	SMA Bluetooth® Repeater Outdoor for increasing the range of SMA Bluetooth® products for use outdoors
Power supply:	1 2	with power supply for DIN rail mounting Power Modul, without power supply for DIN rail mounting, not for USA
Language:	DE	Germany (Documentation: German)



PWRM-10-NR Module for the power supply of the SMA Bluetooth® Repeater or the SMA Power Injector with Bluetooth® from the new Sunny Boy inverters

PWRSUPPLY Plug-in power supply (EU, US, UK) for SMA Bluetooth® Repeater, Sunny WebBox, Power Injector of the Sunny SensorBox and Wireless-Set 485-01/02 radio set

PWRSUPPLY/AU/KR Plug-in power supply (AU, KR) for SMA Bluetooth® Repeater, Sunny WebBox, Power Injector of the Sunny SensorBox and Wireless-Set 485-01/02 radio set for Australia and Korea

Power Reducer Box

valid from 01.07.2011 to 31.12.2011

POWERREDUCER BOX (price before options):	x	x	xx	Power Reducer Box Control device for feed-in and grid safety management according to EEG 2009 for large-scale plants
Inputs:	1			4 digital inputs
Memory Card:	0	4		none 2 GB SDcard
Language:				DE Germany (documentation: German) AU Australia (documentation: English) CZ Czech Republic (documentation: Czech) ES Spain (documentation: Spanish)



Sunny WebBox

valid from 01.07.2011 to 31.12.2011

SUNNYWEBBOX (price before options):	x	x	x	xx	Sunny WebBox Central measurement data acquisition and diagnostic unit for the professional monitoring of the PV plant
SMA COM:	0				Without (Communication via Ethernet) RS485
AUX COM:	0				Without (Communication via Ethernet)
	3				Modem analog
	5				Modem GSM
	6				Modem GSM, incl. SIM card *3)
Memory Card:	0				none
	3				1 GB SD Card
	4				2 GB SD Card
Language:					AU Australia (documentation: English) BE Belgium (documentation: German, Dutch, French) CZ Czech Republic (documentation: Czech) DE Germany (documentation: German) ES Spain (documentation: Spanish) FR France (documentation: French) GB Great Britain (documentation: English) GR Greece (documentation: Greek) IT Italy (documentation: Italian) KR Korea (documentation: Korean) NL Netherlands (documentation: Dutch) PT Portugal (documentation: Portuguese)

*3) Notice: T-Mobile card contract only available for Germany

Sunny WebBox with Bluetooth®

valid from 01.07.2011 to 31.12.2011

WEBBOX-BT-20 (price before options):	x	x	x	xx	Sunny WebBox with Bluetooth® Wireless Technology Central measurement data acquisition and diagnostic unit for the professional monitoring of the PV plant
SMA COM:	0				incl. Bluetooth® Wireless Technology
Memory Card:	0				none
	3				1 GB SD Card
	4				2 GB SD Card
Language:					AU Australia (documentation: English) BE Belgium (documentation: German, Dutch, French) CZ Czech Republic (documentation: Czech) DE Germany (documentation: German) ES Spain (documentation: Spanish) FR France (documentation: French) GB Great Britain (documentation: English) GR Greece (documentation: Greek) IT Italy (documentation: Italian) KR Korea (documentation: Korean) NL Netherlands (documentation: Dutch) PT Portugal (documentation: Portuguese) US USA (documentation: English)



Meter Connection Box

valid from 01.07.2011 to 31.12.2011

METER CONNECTIONBOX (price before options):	xx Device for the transmission of meter pulses of an energy meter with SO impulse output on the Sunny WebBox via the RS485 communication bus.
Language:	DE Germany (documentation: German) GB Great Britain (documentation: English) ES Spain (documentation: Spanish) BE Belgium (documentation: German, Dutch, French) IT Italy (documentation: Italian) FR France (documentation: French) AU Australia (documentation: English) CZ Czech Republic (documentation: Czech) GR Greece (documentation: Greek) NL Netherlands (documentation: Dutch) PT Portugal (documentation: Portuguese)

SWB-OUTANGSM 100 GSM antenna supplementary set for mounting the Sunny WebBox GSM antenna outside, incl. 10 m cable and mounting angle

SD-Card 1 GB 1 GB Secure Digital Memory Card for Sunny WebBox, I-Grade

SD-Card 2 GB 2 GB Secure Digital Memory Card for Sunny WebBox, I-Grade (for Sunny WebBox Firmware 1.42)

SIMCARD T-Mobile GSM cellular phone network data card for use with Sunny WebBox and Sunny Boy Control, incl. contract form sheet and documentation
NOTICE: Only available for Germany!

SUNNYWEBBOX-DUMMY Sunny WebBox Demo, no function

WEBBOX-20-DUMMY Non-functioning dummy for Sunny WebBox with Bluetooth®



Sunny SensorBox

valid from 01.07.2011 to 31.12.2011

SUNNYSSENSOR (price before options):	x	x	xx	Sunny SensorBox Measuring system for environmental data capture for professional monitoring of the PV plant, incl. integrated irradiation and external module temperature sensor
SMA Power-Injector:	1			RS485 Power Injector Feed-in unit for power supply via the RS485 communication bus, incl. plug-in power supply and installation
	2			SMA Power Injector with BLUETOOTH® Feed-in and communication unit for power supply via the RS485 communication bus and connection to the Sunny SensorBox to the SMA Bluetooth communication, incl. plug-in power supply and mounting material
	3			SMA Power Injector with BLUETOOTH® incl. Power Modul Feed-in and communication unit for power supply via the RS485 communication bus and connection to the Sunny SensorBox to the SMA Bluetooth communication, incl. Power Modul for power supply from the SB 3/4/5000TL-20, STP 8/10/12/15/17000TL-10, WB 3600TL-20 and 5000TL-20 (instead of plug-in power supply) and mounting material
Mounting plate:	0			Without
	1			Mounting plate for mounting the Sunny SensorBox on module rail
Language:				AU Australia (documentation: English) BE Belgium (documentation: German, Dutch, French) CZ Czech Republic (documentation: Czech) DE Germany (documentation: German) ES Spain (documentation: Spanish) FR France (documentation: French) GB Great Britain (documentation: English) GR Greece (documentation: Greek) IT Italy (documentation: Italian) KR Korea (documentation: Korean) NL Netherlands (documentation: Dutch) PT Portugal (documentation: Portuguese) US USA (documentation: English)

SEALKIT-SENSOR

Set of replacement sealings for the Sunny SensorBox consisting of 1 x enclosure sealing and 6 x cable gland incl. corresponding sealings



valid from 01.07.2011 to 31.12.2011

WINDSENSOR (price before options):	xx Wind speed sensor for connection to Sunny SensorBox; 0.8 ... 40 m/s, incl. 3 m connection cable, mounting angle and pole clamp
Language:	AU Australia (documentation: English) BE Belgium (documentation: German, Dutch, French) CZ Czech Republic (documentation: Czech) DE Germany (documentation: German) ES Spain (documentation: Spanish) FR France (documentation: French) GB Great Britain (documentation: English) GR Greece (documentation: Greek) IT Italy (documentation: Italian) KR Korea (documentation: Korean) NL Netherlands (documentation: Dutch) PT Portugal (documentation: Portuguese) US USA (documentation: English)

Wall-Mount-Bracket wall mounting angle for mounting the wind speed sensor to wall, length 35 cm/90°

valid from 01.07.2011 to 31.12.2011

TEMPSENSOR-AMBIENT (price before options):	xx PT100 ambient temperature sensor for Sunny SensorBox, measuring range -30°C to 80°C incl. mounting materials
Language:	AU Australia (documentation: English) BE Belgium (documentation: German, Dutch, French) CZ Czech Republic (documentation: Czech) DE Germany (documentation: German) ES Spain (documentation: Spanish) FR France (documentation: French) GB Great Britain (documentation: English) GR Greece (documentation: Greek) IT Italy (documentation: Italian) KR Korea (documentation: Korean) NL Netherlands (documentation: Dutch) PT Portugal (documentation: Portuguese) US USA (documentation: English)

valid from 01.07.2011 to 31.12.2011

BT-485-CON-DEV (price before options):	SMA Power Injector with BLUETOOTH® x Feed-in and communication unit for power supply via the RS485 communication bus and connection to the Sunny SensorBox to the SMA Bluetooth communication, incl. plug-in power supply and mounting material
	0 without plug-in power supply 1 with plug-in power supply 2 incl. Power Modul for power supply from the SB 3/4/5000TL-20, STP 8/10/12/15/17000TL-10, WB 3600TL-20 and 5000TL-20 (instead of plug-in power supply) and mounting material



Sunny Matrix

valid from 01.07.2011 to 31.12.2011

SMATRIX	x	x	x	x	x	x	xx	Sunny Matrix Large display for data visualization, with customer-specific front panel, incl. Ethernet interface
Cabinet:	0							Enclosure size: 800 mm x 400 mm
	1							Enclosure size: 800 mm x 800 mm
	2							Enclosure size: 800 mm x 1000 mm
Line 1:		1						line 4 characters
		2						line 8 characters
		3						line 12 characters
		4						line 16 characters
Line 2:			0					without line 2
			1					line 4 characters
			2					line 8 characters
			3					line 12 characters
			4					line 16 characters
Line 3*:				0				without line 3
				1				line 4 characters
				2				line 8 characters
				3				line 12 characters
				4				line 16 characters
Line 4*:					0			without line 4
					1			line 4 characters
					2			line 8 characters
					3			line 12 characters
					4			line 16 characters
Power plug:						0		Power plug: SCHUKO (standard)
						1		Power plug: UK
Language:							DE	Germany (Software and documentation language: German)
							ES	Spain (Software and documentation language: Spanish)
							FR	France (Software and documentation language: French)
							GB	Great Britain (Software and documentation language: English)
							IT	Italy (Software and documentation language: Italian)
							NL	Netherlands (Software and documentation language: Dutch)
							PT	Portugal (Software and documentation language: Portuguese)

*only available with enclosure size 800 mm x 800 mm and larger



When ordering a Sunny Matrix with a customer-specific front panel, a suitable image must be provided. The specifications regarding the requirements of the image that is to be used on the front panel of the Sunny Matrix may be downloaded on the SMA website (www.SMA.de) on the Sunny Matrix product page.

**SMATRIX-STD-40**

Sunny Matrix Standard *5) external Display for data visualization,
incl. Ethernet interface Enclosure size: 800 mm x 400 mm 1 line 16 digits
Power plug: SCHUKO Software and documentation
language: English

SMATRIX-STD-80

Sunny Matrix Standard *5) external Display for data visualization, incl. Ethernet interface Enclosure size: 800 mm x 800 mm 2 lines,
16 digits each Power plug: SCHUKO Software and documentation language: English

SMATRIX-STD-100

Sunny Matrix Standard *5) external Display for data visualization, incl. Ethernet interface Enclosure size: 800 mm x 1000 mm 2 lines,
16 digits each Power plug: SCHUKO Software and documentation language: English

*5) Changing the defined configuration or the front panel design is not possible.



Software

SMAOPCSERVER	SMA OPC Server, the standardized data interface for large plants PC Software for Windows XP Professional (SP2), Windows Server 2003 (recommended)
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Communication Accessories

I-7520	Interface converter RS485/RS232 incl. RS232 cable 1.8 m (RS485: terminal block/RS232: D-Sub 9-pin socket)
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I-7561	Interface converter RS485/USB, RS422/USB, RS232/USB (RS485/422/232: terminal block)
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WS485-01-10*	Wireless-Set 485-01 radio set for longer distances with RS485 communication for operation with Sunny Boy Control and Sunny WebBox, incl. antenna for outside mounting
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WS485-02-10*	Wireless-Set 485-02 radio set Extension kit for Wireless-Set 485-01 for second radio link
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WS485-01-11*	Wireless-Set 485-01 radio set for AUSTRALIA
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WS485-02-11*	Extension kit for Wireless-Set 485-01 for AUSTRALIA
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* except combination of the Sunny Boy Control and inverters type

SB 3000TL-20, SB 4000TL-20, SB 5000TL-20, STP 8000TL-10, STP 10000TL-10, STP 12000TL-10, STP 15000TL-10, STP 17000TL-10



COMCAB-IN100	Communication cable for RS232 or RS485 system communication for inside application 2 x 2 x 0,22 mm ² , 100 m ring
COMCAB-IN200	Communication cable for RS232 or RS485 system communication for inside application 2 x 2 x 0,22 mm ² , 200 m ring
COMCAB-IN500	Communication cable for RS232 or RS485 system communication for inside application 2 x 2 x 0,22 mm ² , 500 m ring
COMCAB-IN1000	Communication cable for RS232 or RS485 system communication for inside application 2 x 2 x 0,22 mm ² , 1.000 m ring
COMCAB-OUT100	Communication cable for RS232 or RS485 system communication for outside application 2 x 2 x 0,22 mm ² , 100 m ring
COMCAB-OUT200	Communication cable for RS232 or RS485 system communication for outside application 2 x 2 x 0,22 mm ² , 200 m ring
COMCAB-OUT500	Communication cable for RS232 or RS485 system communication for outside application 2 x 2 x 0,22 mm ² , 500 m ring
COMCAB-OUT1000	Communication cable for RS232 or RS485 system communication for outside application 2 x 2 x 0,22 mm ² , 1.000 m ring
SB-PG-OUT	PG cable gland for the connection of the outdoor communication cable COMCAB-OUTx to inverters type SWR/SB/SMC, 10 pc.

Off-grid Inverter





Sunny Island 2012 (SI2012)

valid from 01.07.2011 to 31.12.2011

SI 2012 (price before options):	x	x	x	0	x	Bidirectional battery inverter for stand-alone operation, output voltage: 230 VAC/50 Hz and 220 VAC/60 Hz, nominal power: 2 kW, battery voltage: 12 VDC, external battery temperature sensor, 3 m synchronization cable for indoor installation
Communication:	0 4					No communication RS485
User interface:		0				Master device: with control panel Sunny Remote Control (SRC-1), SD card, 5 m synchronization cable for Indoor installation
		1				Slave device: without control panel
Color of lid:			3			yellow (standard), other colors upon request
Documentation:					DE EN ES FR IT GR	German English Spanish French Italian Greek

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years



Sunny Island 2224 (SI 2224)

valid from 01.07.2011 to 31.12.2011

SI 2224 (price before options):	x	x	x	0	x	Bidirectional battery inverter for stand-alone operation, output voltage: 230 VAC/50 Hz and 220 VAC/60 Hz, nominal power: 2.2 kW, battery voltage: 24 VDC, external battery temperature sensor, 3 m synchronization cable for indoor installation
Communication:	0 4					No communication RS485
User interface:		0				Master device: with control panel Sunny Remote Control (SRC-1), SD card, 5 m synchronization cable for Indoor installation
		1				Slave device: without control panel
Color of lid:			3			yellow (standard), other colors upon request
Documentation:						DE German EN English ES Spanish FR French IT Italian GR Greek

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years


Sunny Island 3324 (SI 3324)

valid from 01.07.2011 to 31.12.2011

SI 3324 (price before options):	x	0	x	x	Bidirectional battery inverter for stand-alone operation, output voltage: 230 VAC/50 Hz and 220 VAC/60 Hz, nominal power: 3.3 kW, battery voltage: 24 VDC, external battery temperature sensor
Communication:	0				No communication
	4				RS485
Color of lid:			3		yellow (standard), other colors upon request
Documentation:				DE	German
				EN	English
				ES	Spanish
				FR	French
				IT	Italian

Warranty extension up to 10 years
Warranty extension up to 15 years
Warranty extension up to 20 years
Warranty extension up to 25 years



Sunny Island 4248 (SI 4248)

valid from 01.07.2011 to 31.12.2011

SI 4248 (price before options):	x	0	x	x	Bidirectional battery inverter for stand-alone operation, output voltage: 230 VAC/50 Hz and 220 VAC/60 Hz, nominal power: 4.2 kW, battery voltage: 48 VDC, external battery temperature sensor
Communication:	0				No communication
	4				RS485
Color of lid:			3		yellow (standard), other colors upon request
Documentation:				DE	German
				EN	English
				ES	Spanish
				FR	French
				IT	Italian

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years



Sunny Island 5048 (SI 5048)

valid from 01.07.2011 to 31.12.2011

SI 5048 (price before options):	x	0	x	x	Bidirectional battery inverter for stand-alone operation, output voltage: 230 VAC/50 Hz and 220 VAC/60 Hz, nominal power: 5.0 kW, battery voltage: 48 VDC, external battery temperature sensor, SD/MMC card, synchronization cable
Communication:	0				No communication
	4				RS485
Color of lid:			3		yellow (standard), other colors upon request
Documentation:				DE	German
				EN	English
				ES	Spanish
				FR	French
				IT	Italian
				GR	Greek

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years



Sunny Island Demo

SI-Dummy2224	Sunny Island 2012/2224 demo device, without function
SI-Dummy4248	Sunny Island 3324/4248 demo device, without function
SI-Dummy5048	Sunny Island 5048 demo device, without function
Ständersystem	Stand system for Sunny Island demo device

Sunny Island Charger

valid from 01.07.2011 to 31.12.2011

SIC50-MPT (price before options):	x	x	0	MPP solar charge controller battery voltage: 48 V/24 V/12 V battery current: 50 A/ 50 A/ 50 A nominal power: 2400 W at 48 V, max. PV voltage: 140 V incl. SIC-PB for communication with Sunny Island
Communication:		0		Sunny Island Charger Piggy Back for the communication between Sunny Island Charger and the Sunny Island 5048, Sunny Island 2224, Sunny Island 2012 via sync bus of the Sunny Islands, including 5 m synchronization cable for indoor installation
		1		No communication
Temperature sensor:		0		Without temperature sensor
		1		With external temperature sensor for systems with Sunny Island 3324 and Sunny Island 4248

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years



Multicluste r-Boxes

Multicluste r Box MC-BOX-6.3

valid from 01.07.2011 to 31.12.2011

MC-BOX-6.3 (price before options):	x	0	0	0	x	3-phase Multicluste r-Box f or 230 V / 50 Hz and 220 V / 60 Hz, connections for: 6 x Sunny Island 5048, 1 x generator connection with 55 kW, 1 x PV connection with 55 kW, 1 x, consumer load 55 kW incl. load-shedding contactor, incl. 1 x 5 m synchronization cable, from SI 5048 to MC-Box, incl. 3 x 5 m communication cable from SI 5048 to MC-Box
Communication:	0	2				1 cluster: without Multicluste r Piggy-Back 2 cluster: 2 x Multicluste r Piggy-Back for SI 5048 incl. accessories (for one MC-PB): CAN and RS485 bus on one Piggy-Back, 1 x 5 m communication cable for CAN bus, 1 x 5 m communication cable for RS485, 1 x grounding cable, 2 x termination resistor
Dokumentation:					DE German EN English ES Spanish FR French IT Italian GR Greek	

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years



Multicluster Box MC-BOX-12.3

valid from 01.07.2011 to 31.12.2011

MC-BOX-12.3 (price before options):	x	0	0	0	x	<p>3-phase Multicluster-Box for 230 V / 50 Hz and 220 V / 60 Hz, connections for: 12 x Sunny Island 5048, 1 x generator connection with 110 kW, 1 x PV connection with 110 kW, 1 x, consumer load 110 kW incl. load-shedding contactor, incl. 1 x 5 m synchronization cable, from SI 5048 to MC-Box, incl. 3 x 5 m communication cable from SI 5048 to MC-Box</p>
Communication:	0					<p>1 cluster: without Multicluster Piggy-Back</p> <p>2 cluster: 2 x Multicluster Piggy-Back for SI 5048 incl. accessories (for one MC-PB): CAN and RS485 bus on one Piggy-Back, 1 x 5 m communication cable for CAN bus, 1 x 5 m communication cable for RS485, 1 x grounding cable, 2 x termination resistor</p> <p>3 cluster: 3 x Multicluster Piggy-Back for SI 5048 incl. accessories</p> <p>4 cluster: 4 x Multicluster Piggy-Back for SI 5048 incl. accessories</p>
Dokumentation:						<p>DE German EN English ES Spanish FR French IT Italian GR Greek</p>

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years



Multiclustertyp MC-BOX-36.3

valid from 01.07.2011 to 31.12.2011

MC-BOX-36.3 (price before options):	x	0	0	0	x	3-phase Multiclustertyp Box for 230 V/50 Hz and 220 V/60 Hz, Connections for: 36 x Sunny Island 5048, 1 x PV array connection with 300 kW, 1 x PV connection with 300 kW, 1 x load connection 300 kW, incl. load shedding contactor, incl. 1 x 5 m synchronization cable from SI 5048 to the MC-Box, incl. 3 x 5 m communication cable from SI 5048 to the MC-Box incl. 1 set (3 pcs. each 500 A) replacement fuse elements for NH3 fuse switch-disconnector
Communication:	0					1 cluster: without Multiclustertyp Piggy-Back 2 cluster: 2 x Multiclustertyp Piggy-Back for SI 5048 incl. accessories (for one MC-PB): CAN and RS485 bus on one Piggy-Back, 1 x 5 m communication cable for CAN bus, 1 x 5 m communication cable for RS485, 1 x grounding cable, 2 x termination resistor 3 cluster: 3 x Multiclustertyp Piggy-Back for SI 5048 incl. accessories 4 cluster: 4 x Multiclustertyp Piggy-Back for SI 5048 incl. accessories 5 cluster: 5 x Multiclustertyp Piggy-Back for SI 5048 incl. accessories 6 cluster: 6 x Multiclustertyp Piggy-Back for SI 5048 incl. accessories 7 cluster: 7 x Multiclustertyp Piggy-Back for SI 5048 incl. accessories 8 cluster: 8 x Multiclustertyp Piggy-Back for SI 5048 incl. accessories 9 cluster: 9 x Multiclustertyp Piggy-Back for SI 5048 incl. accessories 10 cluster: 10 x Multiclustertyp Piggy-Back for SI 5048 incl. accessories 11 cluster: 11 x Multiclustertyp Piggy-Back for SI 5048 incl. accessories 12 cluster: 12 x Multiclustertyp Piggy-Back for SI 5048 incl. accessories
Dokumentation:						DE German EN English ES Spanish FR French IT Italian GR Greek

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years



Smart Load 6000

valid from 01.07.2011 to 31.12.2011

SL6000 (price before options):		x	x	x	x	Electronic control for load resistors up to 6 kW, optimized for the operation in island grid systems with energy sources that only have a slow control possibility or none at all (e.g. wind power systems, combined heat and power systems) Input: 230 V/400 V, 50 Hz/60 Hz, 1-phase or 3-phase, connection for 3 x 2 kW load impedances
Communication:	0 4					No communication RS485
Dokumentation:	0 1					German English
Frequency			0 1			50 Hz 60 Hz
Wiring				0 1		single-phase three-phase

SL-BW6 6 kW load resistor for operation with a Smart Load 6000



Sunny Island Accessories



SI-CONFIG-10	SMA Off-Grid Configurator: Program for the design and dimensioning of off-grid PV plants with SMA components
SRC-1	Control panel Sunny Remote Control for Sunny Island 2012, 2224, incl. 128 MB SD card, and 5 m communication cable for indoor installation, mounting material
232PB-G3	RS232 interface as upgrade kit for Sunny Island SI 3324, SI 4248, SI 5048
485PB-G3	RS485 interface as upgrade kit for Sunny Island SI 2224, SI 2012, SI 3324, SI 4248, SI 5048
MC-PB	Multicluster Piggy-Back for SI 5048, CAN and RS485 bus on one Piggy-Back incl.: 1 x 5 m communication cable for CAN bus, 1 x 5 m communication cable for RS485, 1 x grounding cable, 2 x termination resistor
SIC-PB	SIC Piggy Back for the communication between SIC and the SI5048, SI2224, SI2012 via the sync bus of the Sunny Islands, 5 m synchronization cable for indoor installation
SI-COM-RJ45-3	Adapter cables (from RJ45 to 3 open insulated conductors with bootlace ferrules with fasteners) for using RS485 communication between Sunny Island and Sunny WebBox
SI-COMCAB-OUT2	2 m communication cable with RJ45 plugs on both sides for outdoor installation, suitable for SRC-1, sync bus, CAN bus, RS485 connection
SI-COMCAB-OUT5	5 m communication cable with RJ45 plugs on both sides for outdoor installation, suitable for SRC-1, sync bus, CAN bus, RS485 connection
SI-COMCAB-OUT10	10 m communication cable with RJ45 plugs on both sides for outdoor installation, suitable for SRC-1, sync bus, CAN bus, RS485 connection
SI-COMCAB-OUT20	20 m communication cable with RJ45 plugs on both sides for outdoor installation, suitable for SRC-1, sync bus, CAN bus, RS485 connection

Generator Management Box

SI-GENMAN-TFH230	Generator Management Box for 230 V generators, power supply 12 VDC from generator, incl. transformer (230 V / 12 V) for DIN rail mounting
SI-GENMAN-TFS230	Generator Management Box for 230 V generators, power supply 12 VDC from generator, incl. transformer (230 V / 12 V) as plug-in power supply



Battery fuse boxes

BATFUSE-A.01

valid from 01.07.2011 to 31.12.2011

BATFUSE-A.01 (price before options):	x xx	2-pole NH00 battery fuse for 1 Sunny Island or Sunny Backup, 2 DC input ports (Battery or Sunny Island Charger)
Fuse value:	0	2 x 125 A fuse plug for Sunny Island 2224 with 2 spare fuses
Dokumentation:	DE	German
	EN	English
	ES	Spanish
	FR	French
	IT	Italian
	GR	Greek

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years

BATFUSE-A.03

valid from 01.07.2011 to 31.12.2011

BATFUSE-A.03 (price before options):	x xx	2-pole NH00 battery fuse for up to 3 Sunny Island or Sunny Backup, 4 DC input ports (2 x batteries or 2 x Sunny Island Charger)
Fuse value:	0	6 x 125 A fuse plug for Sunny Island 6 with 2224 spare fuses
Dokumentation:	DE	German
	EN	English
	ES	Spanish
	FR	French
	IT	Italian
	GR	Greek

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years

**BATFUSE-B.01**

valid from 01.07.2011 to 31.12.2011

BATFUSE-A.01 (price before options):	x xx	2-pole NH1 battery fuse switch disconnecter for one Sunny Island or Sunny Backup, 3 DC input ports (1 x battery and 2 x Sunny Island Chargers), 1 X auxiliary voltage output with 8 A
Fuse value:	0 2 3	2 x 125 A fuse plug for Sunny Island 2224/Sunny Backup 2200 with 2 spare fuses 2 x 200 A fuse plug for Sunny Island 4248 with 2 spare fuses 2 x 250 A fuse plug for Sunny Island 2012/3324/5048/Sunny Backup 5000 with 2 spare fuses
Dokumentation:	DE EN ES FR IT GR	German English Spanish French Italian Greek

Warranty extension up to 10 years**Warranty extension up to 15 years****Warranty extension up to 20 years****Warranty extension up to 25 years****BATFUSE-B.03**

valid from 01.07.2011 to 31.12.2011

BATFUSE-A.03 (price before options):	x xx	2-pole NH1 battery fuse switch disconnecter for up to 3 Sunny Island or Sunny Backup, 6 DC input ports (2 x battery and 4 x Sunny Island Charger), 1 X auxiliary voltage output with 8 A
Fuse value:	0 2 3	2 x 125 A fuse plug for Sunny Island 2224/Sunny Backup 2200 with 2 spare fuses 2 x 200 A fuse plug for Sunny Island 4248 with 2 spare fuses 2 x 250 A fuse plug for Sunny Island 2012/3324/5048/Sunny Backup 5000 with 2 spare fuses
Dokumentation:	DE EN ES FR IT GR	German English Spanish French Italian Greek

Warranty extension up to 10 years**Warranty extension up to 15 years****Warranty extension up to 20 years****Warranty extension up to 25 years**



Battery cable sets

DC-CABLE.35-2	2 x 2 m ready to use, double-insulated battery cable type NSGAFöu for connection of the battery or the Batfuse with SI 2224. Cross-section 35 mm ² , with narrow cable shoes pre assembled (M8)
DC-CABLE.35-4	2 x 4 m ready to use, double-insulated battery cable type NSGAFöu for connection of the battery or the Batfuse with SI 2224. Cross-section 35 mm ² , with narrow cable shoes pre assembled (M8)
DC-CABLE.35-6	2 x 6 m ready to use, double-insulated battery cable type NSGAFöu for connection of the battery or the Batfuse with SI 2224. Cross-section 35 mm ² , with narrow cable shoes pre assembled (M8)
DC-CABLE.70-3	2 x 3 m ready to use, double-insulated battery cable type NSGAFöu for connection of the battery or the Batfuse with SI 5048. Cross-section 70 mm ² , with narrow cable shoes pre assembled
DC-CABLE.70-6	2 x 6 m ready to use, double-insulated battery cable type NSGAFöu for connection of the battery or the Batfuse with SI 5048. Cross-section 70 mm ² , with narrow cable shoes pre assembled
DC-CABLE.70-9	2 x 9 m ready to use, double-insulated battery cable type NSGAFöu for connection of the battery or the Batfuse with SI 5048. Cross-section 70 mm ² , with narrow cable shoes pre assembled
DC-CABLE.95-3	2 x 3 m ready to use, double-insulated battery cable type Radox 4GKW for connection of the Batfuse with SI 2012. Cross-section 95 mm ² , with narrow cable shoes pre assembled
DC-CABLE.95-6	2 x 6 m ready to use, double-insulated battery cable type Radox 4GKW for connection of the Batfuse with SI 2012. Cross-section 95 mm ² , with narrow cable shoes pre assembled
DC-CABLE.95-9	2 x 9 m ready to use, double-insulated battery cable type Radox 4GKW for connection of the Batfuse with SI 2012. Cross-section 95 mm ² , with narrow cable shoes pre assembled



SI-LS45-48	3-pole load-shedding contactor with 45 A nominal current (AC-1) with 48 V DC coil for Sunny Island 5048/4248
SI-LS100-48	3-pole load-shedding contactor with 100 A nominal current (AC-1) with 48 V DC coil for Sunny Island 5048/4248
SI-LS25-24	3-pole load-shedding contactor with 25 A nominal current (AC-1) with 24 V DC coil for Sunny Island 2224/3324
SI-LS45-24	3-pole load-shedding contactor with 45 A nominal current (AC-1) with 24 V DC coil for Sunny Island 2224/3324

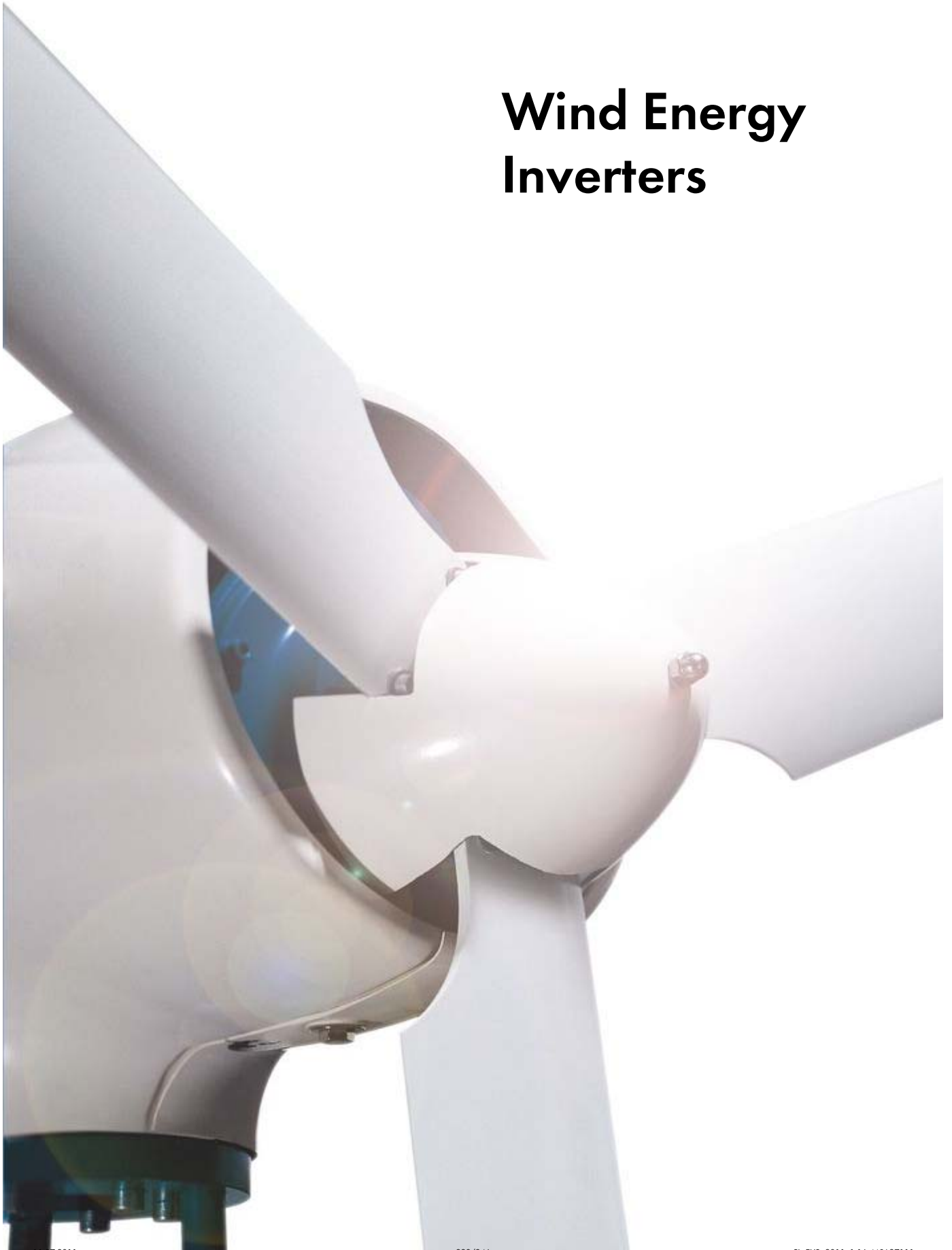
Measuring shunts for the battery current detection

SI-SHUNT200	Battery current measuring shunt for two Sunny Island 5048/2224/2012 (200 A nominal current / 60 mV)
SI-SHUNT400	Battery current measuring shunt for two Sunny Island 5048/2224/2012 (400 A nominal current / 60 mV)
SI-SHUNT600	Battery current measuring shunt for two Sunny Island 5048/2224/2012 (600 A nominal current / 60 mV)
SI-SHUNT800	Battery current measuring shunt for two Sunny Island 5048/2224/2012 (800 A nominal current / 60 mV)

Sunny Island spare parts

BAT-TEMP-SENSOR	Reserve battery temperature sensor type KTY with 10 m connection cable for Sunny Island, Sunny Backup or Sunny Island Charger
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Wind Energy Inverters





Windy Boy 6000A (WB 6000A)

valid from 01.07.2011 to 31.12.2011

WB 6000A (price before options):	x	0	0	x	4	1	-	xx	xx	Inverter for small wind turbine systems, 6000 Wnom/6000 WMax grid-tied operation, grid frequency 50 Hz/60 Hz (auto-detection)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Connector:				4						SUNCLIX
Documentation:								DE		German
								EN		English
								ES		Spanish
								FR		French
								IT		Italian
								PT		Portuguese
Country specific grid settings:								DE		Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
								OF		Default setting for offgrid operation
								ZZ		Grid parameter country settings: customer specification (setting code, if available).

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

Comments

1) Can vary depending on options.

For the Italian market please order the WB 6000A-IT. Options are the same as the options of the WB 6000A.



Windy Boy 5000A (WB 5000A)

valid from 01.07.2011 to 31.12.2011

WB 5000A (price before options):	x	0	0	x	4	1	-	xx	xx	Inverter for small wind turbine systems, 5000 Wnom/5500 WMax grid-tied operation, grid frequency 50 Hz/60 Hz (auto-detection)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Connector:				4						SUNCLIX
Documentation:								DE		German
								EN		English
								ES		Spanish
								FR		French
								IT		Italian
								PT		Portuguese
Country specific grid settings:								DE		Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
								OF		Default setting for offgrid operation
								ZZ		Grid parameter country settings: customer specification (setting code, if available).

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

Comments

1) Can vary depending on options.

For the Italian market please order the WB 5000A-IT. Options are the same as the options of the WB 5000A.


Windy Boy 5000TL (WB 5000TL-20)

valid from 01.07.2011 to 31.12.2011

WB 5000TL-20 (price before options):	x	xx	4	-	xx	xx	Inverter for small wind turbine systems for grid feeding Windy Boy 5000TL, Pac,r/max 4600 W/5000 W transformerless, grid frequency 50 Hz/60 Hz graphic display, rotary coded switch for country settings SMA Bluetooth® communication interface, multi-function relay Multi-String function incl. Electronic Solar Switch (ESS)
specific price 1)							
Communication:	0						Bluetooth communication interface (standard)
	1						Bluetooth wireless + RS485
Color of lid:		00					red (additional colors on request)
Connector:			4				SUNCLIX
Documentation:						DE	German (Standard)
						EN	English
						ES	Spanish
						FR	French
						IT	Italian
						PT	Portuguese
						00	all languages (DE, EN, ES, FR, IT,PT)
Country specific grid settings:						00	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
						0F	Default setting for offgrid operation
						ZZ	Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years
Warranty extension up to 15 years
Warranty extension up to 20 years
Warranty extension up to 25 years
Comments

1) Can vary depending on options.



Windy Boy 3800 (WB 3800)

valid from 01.07.2011 to 31.12.2011

WB 3800 (price before options):	x	0	0	x	4	1	-	xx	xx	Inverter for small wind turbine systems, 3800 Wnom/3800 WMax grid-tied operation, grid frequency 50 Hz/60 Hz (auto-detection)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Connector:				4						SUNCLIX
Documentation:								DE		German
								EN		English
								ES		Spanish
								FR		French
								IT		Italian
								PT		Portuguese
Country specific grid settings:								DE		Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
								OF		Default setting for offgrid operation
								ZZ		Grid parameter country settings: customer specification (setting code, if available).

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

Comments

1) Can vary depending on options.

For the Italian market please order the WB 3800-IT. Options are the same as the options of the WB 3800.


Windy Boy 3600TL (WB 3600TL-20)

valid from 01.07.2011 to 31.12.2011

WB 3600TL-20 (price before options):	x	xx	4	-	xx	xx	Inverter for small wind turbine systems for grid feeding Windy Boy 3600TL, Pac,r/max 3600 W/3600 W transformerless, grid frequency 50 Hz/60 Hz graphic display, rotary coded switch for country settings SMA Bluetooth® communication interface, multi-function relay Multi-String function incl. Electronic Solar Switch (ESS)
specific price 1)							
Communication:	0 1						Bluetooth communication interface (standard) Bluetooth wireless + RS485
Color of lid:		00					red (additional colors on request)
Connector:			4				SUNCLIX
Documentation:						DE EN ES FR IT PT 00	German (Standard) English Spanish French Italian Portuguese all languages (DE, EN, ES, FR, IT,PT)
Country specific grid settings:						00 0F ZZ	Grid parameter country settings: Default Setting VDE0126-1-1 (standard) Default setting for offgrid operation Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years
Warranty extension up to 15 years
Warranty extension up to 20 years
Warranty extension up to 25 years
Comments

1) Can vary depending on options.



Windy Boy 3300 (WB 3300)

valid from 01.07.2011 to 31.12.2011

WB 3300 (price before options):	x	0	0	x	4	1	-	xx	xx	Inverter for small wind turbine systems, 3300 Wnom/3600 WMax grid-tied operation, grid frequency 50 Hz/60 Hz (auto-detection)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Connector:				4						SUNCLIX
Documentation:								DE		German
								EN		English
								ES		Spanish
								FR		French
								IT		Italian
								PT		Portuguese
Country specific grid settings:								DE		Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
								OF		Default setting for offgrid operation
								ZZ		Grid parameter country settings: customer specification (setting code, if available).

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

Comments

1) Can vary depending on options.

For the Italian market please order the WB 3300-IT. Options are the same as the options of the WB 3300.



Windy Boy 3000 (WB 3000)

valid from 01.07.2011 to 31.12.2011

WB 3000 (price before options):	x	0	x	4	1	-	xx	xx	Inverter for small wind turbine systems, 2750 Wnom/3000 WMax grid-tied operation, grid frequency 50 Hz/60 Hz (auto-detection)
specific price 1)									
Communication:	5								without communication interface
	8								RS485
	B								SMA Bluetooth® Piggy-Back
Color of lid:		0							red (additional colors on request)
Connector:			4						SUNCLIX
Documentation:							DE		German
							EN		English
							ES		Spanish
							FR		French
							IT		Italian
							PT		Portuguese
Country specific grid settings:							DE		Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
							OF		Default setting for offgrid operation
							ZZ		Grid parameter country settings: customer specification (setting code, if available).

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

Comments

1) Can vary depending on options.

For the Italian market please order the WB 3000-IT. Options are the same as the options of the WB 3000.



Windy Boy 2500 (WB 2500)

valid from 01.07.2011 to 31.12.2011

WB 2500 (price before options):	x	0	x	4	1	-	xx	xx	Inverter for small wind turbine systems, 2300 Wnom/2500 WMax grid-tied operation, grid frequency 50 Hz/60 Hz (auto-detection)
specific price 1)									
Communication:	5								without communication interface
	8								RS485
	B								SMA Bluetooth® Piggy-Back
Color of lid:		0							red (additional colors on request)
Connector:			4						SUNCLIX
Documentation:							DE		German
							EN		English
							ES		Spanish
							FR		French
							IT		Italian
							PT		Portuguese
Country specific grid settings:							DE		Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
							OF		Default setting for offgrid operation
							ZZ		Grid parameter country settings: customer specification (setting code, if available).

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

Comments

1) Can vary depending on options.

For the Italian market please order the WB 2500-IT. Options are the same as the options of the WB 2500.



Windy Boy 1700 (WB 1700)

valid from 01.07.2011 to 31.12.2011

WB 1700 (price before options):	x	0	0	x	4	1	-	xx	xx	Inverter for small wind turbine systems, 1550 Wnom/1700 WMax grid-tied operation, grid frequency 50 Hz/60 Hz (auto-detection)
specific price 1)										
Communication:	5									without communication interface
	8									RS485
	B									SMA Bluetooth® Piggy-Back
Color of lid:			0							red (additional colors on request)
Connector:				4						SUNCLIX
Documentation:									DE	German
									EN	English
									ES	Spanish
									FR	French
									IT	Italian
									PT	Portuguese
Country specific grid settings:									DE	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
									OF	Default setting for offgrid operation
									ZZ	Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years

Comments

1) Can vary depending on options.

For the Italian market please order the WB 1700-IT. Options are the same as the options of the WB 1700.



Windy Boy 1200 (WB1200)

valid from 01.07.2011 to 31.12.2011

WB 1200 (price before options):	x	x	4	-	xx	xx	Inverter for small wind turbine systems, 1200 Wnom/1200 WMax grid-tied operation, grid frequency 50 Hz/60 Hz (auto-detection)
specific price 1)							
Communication:	5						without communication interface
	8						RS485
	B						SMA Bluetooth® Piggy-Back
Color of lid:	0						red (additional colors on request)
Connector:			4				SUNCLIX
Documentation:						DE	German
						EN	English
						ES	Spanish
						FR	French
						IT	Italian
						PT	Portuguese
Country specific grid settings:						DE	Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
						OF	Default setting for offgrid operation
						ZZ	Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years

Comments

1) Can vary depending on options.

For the Italian market please order the WB 1200-IT. Options are the same as the options of the WB 1200.



Windy Boy 1100LV (WB 1100LV)

valid from 01.07.2011 to 31.12.2011

WB 1100LV (price before options):	x	x	-	xx	xx	Inverter for small wind turbine systems, 1200 Wnom/1200 WMax grid-tied operation, grid frequency 50 Hz/60 Hz (auto-detection)
specific price 1)						
Communication:	5					without communication interface
	8					RS485
	B					SMA Bluetooth® Piggy-Back
Color of lid:		0				red (additional colors on request)
Documentation:				DE		German
				EN		English
				ES		Spanish
				FR		French
				IT		Italian
				PT		Portuguese
Country specific grid settings:				DE		Grid parameter country settings: Default Setting VDE0126-1-1 (standard)
				OF		Default setting for offgrid operation
				ZZ		Grid parameter country settings: customer specification (setting code, if available).

Warranty extension up to 10 years

Warranty extension up to 15 years

Warranty extension up to 20 years

Warranty extension up to 25 years

Comments

1) Can vary depending on options.

For the Italian market please order the WB 1100LV-IT. Options are the same as the options of the WB 1100LV.



Windy Boy Protection Box

WBP-Box 400

WBP-Box 400-11 (price before options):	x	0	0	x	Rectifier and overvoltage protection for Small wind turbine systems with Windy Boy inverters. Generator input: 3-phase up to 500 VAC, Connection Windy Boys with max. DC input voltage of 400 VDC. Including necessary load resistor
Load resistor:	0				With load resistor
	6				Without load resistor
Documentation:				0	German
				1	English

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

WBP-Box 500

WBP-Box 500-11 (price before options):	x	0	0	x	Rectifier and overvoltage protection for Small wind turbine systems with Windy Boy inverters. Generator input: 3-phase up to 500 VAC, Connection Windy Boys with max. DC input voltage of 500 VDC Including necessary load resistor
Load resistor:	0				With load resistor
	6				Without load resistor
Documentation:				0	German
				1	English

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

WBP-Box 600

WBP-Box 600-11 (price before options):	x	0	0	x	Rectifier and overvoltage protection for Small wind turbine systems with Windy Boy inverters. Generator input: 3-phase up to 500 VAC, Connection Windy Boys with max. DC input voltage of 600 VDC. Including necessary load resistor
Load resistor:	0				With load resistor
	6				Without load resistor
Documentation:				0	German
				1	English

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

WBP-LR6

Load resistor for WBP Box. 400/500/600
42 Ω/6 KW/IP 23

Fuel Cell Inverter





Hydro Boy 1124 (HB 1124)

valid from 01.07.2011 to 31.12.2011

HB 1124 (price before options):	x	x	x	x	Inverter for fuel cells, 1100 WNom/1200 WMax grid-tied operation, grid frequency 50 Hz/60 Hz (auto-detection), incl. CAN communication
Country specific grid settings:	1 2 4				Germany Korea Off Grid
Communication:	2 4				RS485 Display + RS232
Color of lid:			0 1		red blue
Documentation:				0 1	German English

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years

Hydro Boy 1324 (HB 1324)

valid from 01.07.2011 to 31.12.2011

HB 1324 (price before options):	x	x	x	x	Inverter for fuel cells, 1200 WNom/1300 WMax grid-tied operation, grid frequency 50 Hz/60 Hz (auto-detection), incl. CAN communication
Country specific grid settings:	1 2 4				Germany Korea Off Grid
Communication:	2 4				RS485 Display + RS232
Color of lid:			0 1		red blue
Documentation:				0 1	German English

- Warranty extension up to 10 years
- Warranty extension up to 15 years
- Warranty extension up to 20 years
- Warranty extension up to 25 years



Extension of warranty

Extension of warranty for Sunny Boy, Windy Boy, Sunny Mini Central, Sunny Island (except Sunny Island SI 4500), Sunny Backup, SmartLoad, Sunny Island Charger (the specified power classes refer to single devices in kWAC).

Warranty extensions can only be canceled if the original warranty certificate is returned within 3 months.

0 kW < 4 kW	10 years warranty
4 kW < 9 kW	10 years warranty
9 kW < 12 kW	10 years warranty
12 kW < 20 kW	10 years warranty

0 kW < 4 kW	15 years warranty
4 kW < 9 kW	15 years warranty
9 kW < 12 kW	15 years warranty
12 kW < 20 kW	15 years warranty

0 kW < 4 kW	20 years warranty
4 kW < 9 kW	20 years warranty
9 kW < 12 kW	20 years warranty
12 kW < 20 kW	20 years warranty

0 kW < 4 kW	25 years warranty
4 kW < 9 kW	25 years warranty
9 kW < 12 kW	25 years warranty
12 kW < 20 kW	25 years warranty

Communication

Sunny WebBox, Sunny Sensor Box, Power Reducer Box	10 years warranty
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Sunny Boy Control (Plus)	10 years warranty
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Sunny Matrix	10 years warranty
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Sunny Island

Group 1: 10 years warranty
 15 years warranty
 20 years warranty
 25 years warranty

Group 2: 10 years warranty
 15 years warranty
 20 years warranty
 25 years warranty

Group 3: 10 years warranty
 15 years warranty
 20 years warranty
 25 years warranty

Group 4: 10 years warranty
 15 years warranty
 20 years warranty
 25 years warranty

Group 1: AS-Box-S.1, BatFuse-A.01, BatFuse-A.03, BatFuse-B.01, BatFuse-B.03, SRC-1, SI-GENMAN-TFH230, SI-GENMAN-TFS230, SBU-CON.33

Group 2: AS-Box-M, AS-Box-M-20, AS-Box-L, AS-Box-L-20, MC-Box-6.3, SIC-50-MPT

Group 3: AS-Box-XL, MC-Box-12.3

Group 4: MC-Box-36.3



Lump-sum compensation for repair cost

Lump-sum compensation for repair cost for Sunny Boy, Windy Boy, Sunny Mini Central, Sunny Island, Sunny Backup, SmartLoad (the specified power classes refer to single devices in kWAC).

0 kW < 4 kW

4 kW < 9 kW

9 kW < 12 kW

12 kW < 20 kW

Communication

Sunny Beam

Sunny WebBox, Sunny Sensor Box

Sunny Boy Control (Plus)

Sunny Matrix

SRC-1

AS-Box-S.1

SIC50-MPT

WBP-Box

All other AS or MC boxes



- The lump-sums stated do not apply to devices destroyed by lightning or overvoltage.

- Prices do not include costs for freight and packaging.

Furthermore, our terms of delivery apply, (see appendix).



Engineering service

Planning and dimensioning of the PV plant

Support for planning and dimensioning of your PV plant includes the following service packages:

- Short training (2 to 4 hours) with special focus on possible AC and DC cabling configuration as well as plant monitoring.
- Basic plant configuration defined cooperatively; customer can then work out detailed planning on his own.
- Provision of documents and examples.

Our application engineers will be happy to talk with you at SMA.

Engineering service for plants up to

20 Sunny Boy

50 Sunny Boy

100 Sunny Boy

>100 Sunny Boy



Initial Start-up

Support in commissioning

If you have made use of our engineering support, we offer you commissioning support at rated fixed prices depending on the number of inverters. One or two SMA service employees (depending on the size of the plant) will commission the plant together with your staff. Our support includes the following services:

- Training "on the job" (for up to 2 of your staff during commissioning)
- Set-Up of plant monitoring devices (Sunny Boy Control, Sunny Data, Sunny Data Control), Sunny WebBox
- Configuration of the inverters
- Check of DC, AC and data cable connections on the inverter
- Spot-check measurements of generator parameters

We will be happy to send you a more detailed description of our services on request.

Among other things, the installation of missing cables and repair of installation faults are not included in commissioning support.

We will charge you any additional services at the rates mentioned below.

Commissioning support (with previous engineering service) for plants up to

15	Sunny Boy
30	Sunny Boy
50	Sunny Boy
100	Sunny Boy
>100	Sunny Boy

Prices do not include additional travel cost and personnel cost for plants outside Germany.



Service and maintenance contracts

On conclusion of a service and maintenance contracts we offer you comprehensive maintenance to optimize the yield of your PV plants.

These services include the following (among other things):

- Regular inspections of the plant
- No repair costs for defective Sunny Boys except in case of third-party responsibility or force majeure (e. g. lightning)
- Remote diagnosis via online connection
- Documentation of evaluation once a year

For our services we charge a lump-sum based on the size, location and types of inverters of the plant.

We will be happy to submit a concrete offer on request.

Support invoiced based on time

Hourly rates	Engineer (Manager) Engineer Technician Skilled worker
Travel expenses	Travel time Cost of car Daily allowance (in Germany) Accommodation cost



Terms of delivery

Prices stated always apply to one item.

Prices are stated ex works.

VAT is not included in prices. It will be surcharged at the respectively applicable rate as stated by law.

Unless otherwise stated, we reserve the right to change without notice values, dimensions and weights et al.

Prices are subject to change without notice. We will charge the Prices applicable at the time of order confirmation.

Errors and changes for all details excepted.

Warranty conditions

Warranty

The warranty period for all products in the price list is 24 months, starting from the date of delivery, but not longer than 27 months after declaration of the ability to deliver.

SMA factory warranty

SMA furthermore grants a voluntary factory warranty period for certain products and in certain countries.

The warranty regulations are available at www.SMA.de

In all other cases, the "General Terms and Conditions of Delivery and Payment of SMA Solar Technology AG" shall apply.

The Terms and Conditions are available at www.SMA.de



Export regulations

The products listed in this catalog / price list may be subject to German and/or US export regulations. Each export subject to approval therefore has to be approved by the relevant authorities.

This price list replaces and renders invalid all previous price lists!

SMA Solar Technology AG

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www.SMA.de

