

Art.No	Article	Description
Solar Module SM 235U (multicrystalline)		
Maximum system voltage: 1000 V(DC), LxWxH 1660x1000x42 mm, 60 Multi text. SC 3BB 156/0, IEC 61215 Ed.II / IEC 61730 - Safety class II, A-Quality		
SM225UE3A	Sunways Solar-Modul SM 235U	Power range: 225 W
SM230UE3A	Sunways Solar-Modul SM 235U	Power range: 230 W
SM235UE3A	Sunways Solar-Modul SM 235U	Power range: 235 W
Solar Module SM 240U Eco Line (multicrystalline)		
Maximum system voltage: 1000 V(DC), LxWxH 1642x994x40 mm, 60 Multi text. SC 3BB 156/0, IEC 61215 Ed.II / IEC 61730 - Safety class II, A-Quality		
SM225UD1A	Sunways Solar Modul SM 240U	Power range: 225 W
SM230UD1A	Sunways Solar Modul SM 240U	Power range: 230 W
SM235UD1A	Sunways Solar Modul SM 240U	Power range: 235 W
SM240UD1A	Sunways Solar Modul SM 240U	Power range: 240 W
SM245UD1A	Sunways Solar Modul SM 240U	Power range: 245 W
Solar Module SM 245M Eco Line (monocrystalline)		
Maximum system voltage: 1000 V(DC), LxWxH 1642x994x40 mm, 60 SC-Mono 3BB 156/0, IEC 61215 Ed.II / IEC 61730 - Safety class II, A-Quality		
SM230MD1A	Sunways Solar Modul SM 245M	Power range: 230 W
SM235MD1A	Sunways Solar Modul SM 245M	Power range: 235 W
SM240MD1A	Sunways Solar Modul SM 245M	Power range: 240 W
SM245MD1A	Sunways Solar Modul SM 245M	Power range: 245 W
Solar Laminate (monocrystalline)		
Maximum system voltage: 1000 V(DC), LxWxH 1674x984x5 mm, 60 SC-Mono 3BB 156/0, IEC 61215 Ed.II / IEC 61730 - Safety class II, A-Quality		
SM225LT1A	Sunways Solar-Laminat	Power range: 225 W
SM230LT1A	Sunways Solar-Laminat	Power range: 230 W
SM235LT1A	Sunways Solar-Modul SM 215L	Power range: 235 W
Solar Laminate roof integrated (monocrystalline)		
Maximum system voltage: 1000V(DC), LxWxH 1720x1022x20 mm - black Laminate with black Solrif frame, 60 SC-Mono 3BB 156/0, IEC 61215 Ed.II / IEC 61730 - Safety class II, A-Quality		
SM215QG63	Sunways Solar Laminate	Power range: 225 W
SM215QG64	Sunways Solar Laminate	Power range: 230 W
SM215QG65	Sunways Solar Laminate	Power range: 235 W
Solar Inverter (EU)		
Inverter for grid feed in, Inverter for Europe		
SI225NT0C	Sunways Solar Inverter NT 2500 (EU)	nominal output power: 2500 W
SI237NT0C	Sunways Solar Inverter NT 3700 (EU)	nominal output power: 3700 W

Art.No	Article	Description
SI242NT0C	Sunways Solar Inverter NT 4200 (EU)	nominal output power: 4200 W
SI250NT0C	Sunways Solar Inverter NT 5000 (EU)	nominal output power: 4600 W
SI310NT0C	Sunways Solar Inverter NT 10000 (EU)	nominal output power: 10000 W
SI311NT0C	Sunways Solar Inverter NT 11000 (EU)	nominal output power: 11000 W
SI312NT0C	Sunways Solar Inverter NT 12000 (EU)	nominal output power: 12000 W
SI227AT0B	Sunways Solar Inverter AT 2700 (EU)	nominal output power: 2700 W
SI230AT0B	Sunways Solar Inverter AT 3000 (EU)	nominal output power: 3000 W
SI236AT0B	Sunways Solar Inverter AT 3600 (EU)	nominal output power: 3600 W
SI245AT0B	Sunways Solar Inverter AT 4500 (EU)	nominal output power: 4500 W
SI250AT0B	Sunways Solar Inverter AT 5000 (EU)	nominal output power: 5000 W

Central Inverter (DE)

Inverter for grid feed in, pre-configured for Germany

SI330P11A	Sunways Solar Inverter PT 30k (DE)	nominal output power: 30 kW IP42 protection class pre-configured for Germany
SI330P21A	Sunways Solar Inverter PT 30k (DE)	nominal output power: 30 kW IP42 protection class, with DC overv. protec. pre-configured for Germany
SI330P31A	Sunways Solar Inverter PT 30k (DE)	Central Inverter for grid feed in nominal output power: 30 kW IP54 protection class pre-configured for Germany
SI330P41A	Sunways Solar Inverter PT 30k (DE)	Central Inverter for grid feed in nominal output power: 30 kW IP54 protection class, with DC overv. prot. pre-configured for Germany
SI333P11A	Sunways Solar Inverter PT 33k (DE)	Central Inverter for grid feed in nominal output power: 33,3 kW IP42 protection class pre-configured for Germany
SI333P21A	Sunways Solar Inverter PT 33k (DE)	Central Inverter for grid feed in nominal output power: 33,3 kW IP42 protection class, with DC overv. protec. pre-configured for Germany
SI333P31A	Sunways Solar Inverter PT 33k (DE)	Central Inverter for grid feed in nominal output power: 33,3 kW IP54 protection class pre-configured for Germany
SI333P41A	Sunways Solar Inverter PT 33k (DE)	Central Inverter for grid feed in nominal output power: 33,3 kW IP54 protection class, with DC overv. prot. pre-configured for Germany

Art.No	Article	Description
Central Inverter (ES)		
Inverter for grid feed in, pre-configured for Spain		
SI330P12A	Sunways Solar Inverter PT 30k (ES)	max. output power: 30 kW IP42 protection class pre-configured for Spain
SI330P22A	Sunways Solar Inverter PT 30k (ES)	nominal output power: 30 kW IP42 protection class, DC overv. protec. pre-configured for Spain
SI330P32A	Sunways Solar Inverter PT 30k (ES)	nominal output power: 30 kW IP54 protection class
SI330P42A	Sunways Solar Inverter PT 30k (ES)	Central Inverter for grid feed in nominal output power: 30 kW IP54 protection class, DC overv. protec. pre-configured for Spain
SI333P12A	Sunways Solar Inverter PT 33k (ES)	Central Inverter for grid feed in nominal output power: 33,3 kW IP42 protection class pre-configured for Spain
SI333P22A	Sunways Solar Inverter PT 33k (ES)	Central Inverter for grid feed in max. output power: 33,3 kW IP42 protection class, DC overv. protec. pre-configured for Spain
SI333P32A	Sunways Solar Inverter PT 33k (ES)	Central Inverter for grid feed in max. output power: 33,3 kW IP54 protection class pre-configured for Spain
SI333P42A	Sunways Solar Inverter PT 33k (ES)	Central Inverter for grid feed in max. output power: 33,3 kW IP54 protection class, DC overv. protec. pre-configured for Spain
Central Inverter (FR)		
Inverter for grid feed in, pre-configured for France		
SI330P14A	Sunways Solar Inverter PT 30k (FR)	max. output power: 30 kW IP42 protection class
SI330P24A	Sunways Solar Inverter PT 30k (FR)	nominal output power: 30 kW IP42 protection class, with DC overv. prot.
SI330P34A	Sunways Solar Inverter PT 30k (FR)	nominal output power: 30 kW IP54 protection class
SI330P44A	Sunways Solar Inverter PT 30k (FR)	nominal output power: 30 kW IP54 protection class, with CD overv. protec.
SI333P14A	Sunways Solar Inverter PT 33k (FR)	nominal output power: 33,3 kW IP42 protection class
SI333P24A	Sunways Solar Inverter PT 33k (FR)	max. output power: 33,3 kW IP42 protection class, with DC overv. prot.
SI333P34A	Sunways Solar Inverter PT 33k (FR)	max. output power: 33,3 kW IP54 protection class
SI333P44A	Sunways Solar Inverter PT 33k (FR)	max. output power: 33,3 kW IP54 protection class, with CD overv. protec.

Art.No	Article	Description
Central Inverter (GR)		
Inverter for grid feed in, pre-configured for Greece		
SI330P18A	Sunways Solar Inverter PT 30k (GR)	Central Inverter for grid feed in nominal output power: 30 kW IP42 protection class pre-configured for Greece
SI330P28A	Sunways Solar Inverter PT 30k (GR)	Central Inverter for grid feed in nominal output power: 30 kW IP42 protection class, with DC overv. protec. pre-configured for Greece
SI330P38A	Sunways Solar Inverter PT 30k (GR)	Central Inverter for grid feed in nominal output power: 30 kW IP54 protection class pre-configured for Greece
SI330P48A	Sunways Solar Inverter PT 30k (GR)	Central Inverter for grid feed in nominal output power: 30 kW IP54 protection class, with DC overv. prot. pre-configured for Greece
SI333P18A	Sunways Solar Inverter PT 33k (GR)	Central Inverter for grid feed in nominal output power: 33 kW IP42 protection class pre-configured for Greece
SI333P28A	Sunways Solar Inverter PT 33k (GR)	Central Inverter for grid feed in nominal output power: 33 kW IP42 protection class, with DC overv. protec. pre-configured for Greece
SI333P38A	Sunways Solar Inverter PT 33k (GR)	Central Inverter for grid feed in nominal output power: 33 kW IP54 protection class pre-configured for Greece
SI333P48A	Sunways Solar Inverter PT 33k (GR)	Central Inverter for grid feed in nominal output power: 33 kW IP54 protection class, with DC overv. prot. pre-configured for Greece

Warrenty Extension (EU)

Warranty Extension for Sunways Solar Inverter, valid within Europe

SV101000A	Warranty Extension from 5 to 10 years	for NT 2500 and NT 3700, AT 2700, AT 3000 and AT 3600
SV101030A	Warranty Extension from 5 to 15 years	for NT 2500 and NT 3700, AT 2700, AT 3000 and AT 3600
SV101060A	Warranty Extension from 5 to 20 years	for NT 2500 and NT 3700, AT 2700, AT 3000 and AT 3600
SV101090A	Warranty Extension from 5 to 25 years	for NT 2500 and NT 3700, AT 2700, AT 3000 and AT 3600
SV101010A	Warranty Extension from 5 to 10 years	for NT 4200 and NT 5000 (900 V), AT 4500 and AT 5000
SV101040A	Warranty Extension from 5 to 15 years	for NT 5000 (900V), AT 4500 and AT 5000

Art.No	Article	Description
SV101070A	Warranty Extension from 5 to 20 years	for NT 4200 and NT 5000 (900V), AT 4500 and AT 5000
SV101100A	Warranty Extension from 5 to 25 years	for NT 4200 and NT 5000 (900V), AT 4500 and AT 5000
SV101020A	Warranty Extension from 5 to 10 years	for NT 10000 (900V), NT 11000 and NT 12000
SV101050A	Warranty Extension from 5 to 15 years	for NT 10000 (900V), NT 11000 and NT 12000
SV101080A	Warranty Extension from 5 to 20 years	for NT 10000 (900V), NT 11000 and NT 12000
SV101110A	Warranty Extension from 5 to 25 years	for NT 10000 (900V), NT 11000 and NT 12000
SV101120A	Warranty Extension from 5 to 10 years	for PT 30k and PT 33k
SV101130A	Warranty Extension from 5 to 15 years	for PT 30k and PT 33k
SV101140A	Warranty Extension from 5 to 20 years	for PT 30k and PT 33k

DC Circuit Breaker

003016	DC Circuit Breaker DCL 04	2 pole circuit breaker and connection box for parallel switching of up to 3 strings (in accordance with DIN VDE 0100-712) max. 16 A
003017	DC Circuit Breaker DCL 05	2 pole circuit breaker and connection box for parallel switching of up to 3 strings (in accordance with VDE 0100-712) max. 25 A
003015	DC Circuit Breaker DCL 10	6 pole circuit breaker and connection box for 3 separate strings (in accordance with DIN VDE 0100-712) max. 3 x 10 A

String Box

SE100E10A	String Box 08 (Basic)	String box for up to 8 strings casing IP65, in minus input equipped with hollow shafts
SE101E10A	String Box 08 (OVP)	String box for up to 8 strings casing IP65, in minus input equipped with hollow shafts incl. overvoltage protection
SE102E10A	String Box 08 (OVP, DCS)	String box for up to 8 strings casing IP65, in minus input equipped with hollow shafts incl. overvoltage protection and DC load break switch
SE103E10A	String Box 12 (Basic)	String box for up to 12 strings casing IP65, in minus input equipped with hollow shafts

Art.No	Article	Description
SE104E10A	String Box 12 (OVP)	String box for up to 12 strings casing IP65, in minus input equipped with hollow shafts incl. overvoltage protection
SE105E10A	String Box 12 (OVP, DCS)	String box for up to 12 strings casing IP65, in minus input equipped with hollow shafts incl. overvoltage protection and DC load break switch
SE112E10A	String Box CAN 08 (OVP)	String box for up to 8 strings with string control casing IP65, in minus input equipped with hollow shafts incl. overvoltage protection
SE113E10A	String Box CAN 08 (OVP, VDC)	String box for up to 8 strings with string control casing IP65, in minus input equipped with hollow shafts incl. overvoltage protection and 24 VDC-supply
SE114E10A	String Box CAN 08 (OVP, DCS)	String box for up to 8 strings with string control casing IP65, in minus input equipped with hollow shafts incl. overvoltage protection and DC load break switch
SE115E10A	String Box CAN 08 (OVP, VDC, DCS)	String box for up to 8 strings with string control casing IP65, in minus input equipped with hollow shafts incl. overvoltage protection, 24 VDC-supply and DC switch
SE106E10A	Fuses for String Box (8 A)	for DC string protection for modules with 5" cells max. 1000 V, max. 8 A, set with 10 pieces
SE117E10A	Fuses for String Box (10 A)	for DC string protection max. 1000 V, max. 10 A, set with 10 pieces
SE107E10A	Fuses for String Box (12 A)	for DC string protection for modules with 6" cells max. 1000 V, max. 12 A, set with 10 pieces
SE108E10A	Fuses for String Box (16 A)	for DC string protection max. 1000 V, max. 16 A, set with 10 pieces
SE116E10A	Fuses for String Box (20 A)	for DC string protection max. 1000 V, max. 20 A, set with 10 pieces
SE109E10A	hollow shafts for String Box	to be use instead of fuses set with 10 pieces

Art.No	Article	Description
Power-Control Series		
SE102E11A	Power-Control Box CAN (for NT (900V), PT series)	External unit for feed-in management according to Erneuerbare-Energien-Gesetz § 6 for PV systems with Sunways Solar Inverters (CAN networking and one box per PV plant necessary)

Sunways Display

frameless display with ESG front, 500 x 400 mm, present power, energy yield, CO2 savings (6 digits) for photovoltaic systems up to 50 kWp

002454	Sunways Display DE 500	german text
002465	Sunways Display ES 500	spanish text
002466	Sunways Display IT 500	italian text

Sensors

001148	Irradiation sensor with integrated temperature sensor (0-1 V)	for connection to a Solar Inverter incl. Connector, powder-coated aluminium housing, IP65 (Mencke & Tegtmeyer SI-01TC-T)
003003	Irradiation sensor (0-10 V)	for connection to a Sunways Communicator (Mencke & Tegtmeyer Si-12TC)
003004	Irridation sensor with integrated temperature sensor (0-10 V)	for connection to a Sunways Communicator (Mencke & Tegtmeyer Si-12TC-T)

Tyco Equipment

SE102E50A	SolarLok contact pin set	50 pieces 4 mm ² contact jackets
SE103E50A	SolarLok contact pin set	50 pieces 4 mm ² contact pins
SE104E50A	SolarLok contact pin set	50 pieces 6 mm ² contact jackets
SE105E50A	SolarLok contact pin set	50 pieces 6 mm ² contact pins
SE106E50A	SolarLok connector set inverter or module (PLUS, 4 mm ²)	consists of 100 pieces bush boxes PLUS coded and 4 mm ² contact jackets
SE107E50A	SolarLok connector set inverter (MINUS, 4 mm ²)	consists of 100 pieces bush boxes MINUS coded and 4 mm ² contact jackets
SE108E50A	SolarLok connector set inverter or module (PLUS, 6 mm ²)	consists of 100 pieces bush boxes PLUS coded and 6 mm ² contact jackets
SE109E50A	SolarLok connector set inverter (MINUS, 6 mm ²)	consists of 100 pieces bush boxes MINUS coded and 6 mm ² contact jackets
SE111E50A	SolarLok connector set module (MINUS, 4 mm ²)	consists of 100 pieces connector boxes MINUS coded and 4 mm ² contact pins
SE113E50A	SolarLok connector set module (MINUS, 6 mm ²)	consists of 100 pieces connector boxes MINUS coded and 6 mm ² contact pins
SE114E50A	SolarLok T-divider	set with 20 pieces PLUS coded
SE115E50A	SolarLok T-divider	set with 20 pieces MINUS coded

Art.No	Article	Description
002996	Tyco manual crimping tool	including die plate and Locator for cable assembly for Tyco Solarlok connectors (4,0 + 6,0 mm ²)

Solar Inverter Equipment

SE100C10A	CAN-Bridge for Signal Boost in CAN bus	in DIN rail casing, configured extends CAN bus length for 500 m (with bus speed of 125 kbit) with connecting cables RJ45
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Spare Parts AT/NT

SE153S20A	cap for interface protection	(spare part)
SE132S20A	Termination plug CAN bus	5 pieces (spare part)
006758	AC plug	replacement unit
SE139S20A	Display Sheet AT	Replacement Sheet for Solar Inverter AT (Spare Part)
SE140S20A	Display Sheet NT	Replacement Sheet for Solar Inverter NT (Spare Part)
SE115S20A	Display Sheet NT 10000 (850 V)	Replacement Sheet for Solar Inverter NT 10000 (850 V) (Spare Part)
SE130S20A	Display Board NT 10000 (850 V)	Replacement Board for Solar Inverter NT 10000 (850 V) (Spare Part)
002470	Filter Pads NT 10000 (850 V)	Set with 10 pieces
SE141S20A	Housing Cover AT	Replacement Housing Cover for Solar Inverter incl. Keypad AT (Spare Part)
SE143S20A	Housing Cover NT 10000 - 12000	Replacement Housing Cover for Solar Inverter NT 10000 - 12000 incl. Keypad NT (Spare Part)
SE100S20A	Housing Cover NT 10000 (850 V)	Replacement Housing Cover for Solar Inverter NT 10000 (850 V) incl. Display Sheet (Spare Part)
SE142S20A	Housing Cover NT 2500 - 5000	Replacement Housing Cover for Solar Inverter NT 2500 - 5000 incl. Keypad NT (Spare Part)
SE125S20A	Communication Board NT 10000 (850 V) (C3A)	Replacement Board for Solar Inverter NT 10000 with Serial No. 0x33A01xxxxx (Spare Part)
SE148S20A	Tyco-plug set consisting of:	2x Tyco Socket PLUS encoded 2x Tyco Socket MINUS encoded including sleeves (spare part)

Art.No	Article	Description
SE149S20A	Tyco-plug set consisting of:	3x Tyco Socket PLUS encoded 3x Tyco Socket MINUS encoded including sleeves (spare part)
SE113S20A	Wall-mounting frame for Serial AT/NT	Replacement frame for Solar Inverter AT 2700, AT 3000, AT 3600, AT 4500, AT 5000 NT 2500, NT 3700, NT 4200, NT 5000 (Spare Part)
SE144S20A	Wall-mounting frame for NT 10000 - 12000	Replacement frame for Solar Inverter NT 10000 (900 V), NT 11000, NT 12000 (Spare Part)
SE112S20A	Wall-mounting frame NT 8000/NT 10000	Replacement frame for Solar Inverter NT 8000, NT 10000 (850 V) (Spare Part)
SE146S20A	Accessory kit consisting of:	1x AC plug Tyco Socket 2x PLUS encoded Tyco Socket 2x MINUS encoded 1x network cable 2m 1x security screw (spare part)
SE147S20A	Accessory kit consisting of:	1x AC plug 3x Tyco Socket PLUS encoded 3x Tyco Socket MINUS encoded 1x network cable 2m 2x security screw (spare part)

Service

SV201000A	Annual Fee Service and Maintenance Contract	for Solar Inverters of PT series in Europe (without Germany, Austria, Switzerland) 1-2 Inverter per PV plant
SV201010A	Annual Fee Service and Maintenance Contract	for Solar Inverters of PT series in Europe (without DE, AT, CH) from 3 inverters per PV plant

Communicator

002248	Sunways Communicator 10, analogue	Plant Monitoring for up to 99 x NT 2600...NT 6000 or 33 x NT 10000 with integrated Analogue-Modem incl. Sunways Portal Pro access for 2 years
002249	Sunways Communicator 10, ISDN	Plant Monitoring for up to 99 x NT 2600...NT 6000 or 33 x NT 10000 with integrated ISDN Modem incl. Sunways Portal Pro access for 2 years
002250	Sunways Communicator 10, GSM (EU)	Plant Monitoring for up to 99 x NT 2600...NT 6000 or 33 x NT 10000 with integrated GSM Modem and bar antenna incl. Sunways Portal Pro access for 2 years
002453	Sunways Communicator 10, DSL	Plant Monitoring for up to 99 x NT 2600...NT 6000 or 33 x NT 10000 for connection to a DSL router incl. Sunways Portal Pro access for 2 years

Art.No	Article	Description
002451	Sunways Communicator 05, analogue	Plant Monitoring for up to 5 x NT 2600...NT 6000 or 2 x NT 10000 with integrated analogue modem incl. Sunways Portal Basic access for 2 years
002452	Sunways Communicator 05, DSL	Plant Monitoring for up to 5 x NT 2600...NT 6000 or 2 x NT 10000 for connection to a DSL router incl. Sunways Portal Basic access for 2 years

Portal Fees

002482	Sunways Portal Basic Fee	Annual basic fee for "Pro Access" per pv system (to be paid in Sunways Portal)
002483	Sunways Portal Plant Fee	Annual plant fee for "Pro Access" per installed kWp (to be paid in Sunways Portal)

Sunways Modem

002401	Sunways Modem, analog (DE)	Analogue remote modem for PV plant monitoring with Sunways NT or AT Solar Inverters. Incl. power plug and necessary cabling (telephone: TAE)
002404	Sunways Modem, analog (INT)	Analogue remote modem for PV plant monitoring with Sunways NT or AT Solar Inverters. Incl. power plug and necessary cabling (telephone: RJ11)
002402	Sunways Modem, ISDN	ISDN remote modem for PV plant monitoring with Sunways NT or AT Solar Inverters. Incl. power plug and necessary cabling - available from August 2010 -
002403	Sunways Modem, GSM (Europe and Switzerland)	Analogue remote modem for PV plant monitoring with Sunways Solar Inverters Incl. power plug, bar antenna and necessary cabling

Sunways Cables

SE100C20A	Network Cable (Ethernet)	red, 1:1, 3 m length, CAT 5e
002991	Sunways cable type 1	for connection PC (RS232) - Solar Inverter (850 V) Null-Modem-Cable (twisted) Female to Female, Length: 3 m
001139	Sunways cable type 2 / cable type D	for connection PC (RS232) - Interface Converter / PC (RS232) - Modem / Modem - Solar Inverter (850 V) Modem Cable (1:1) Female to Male, Length: 3 m
002992	Sunways cable type 3	for connection Interface Converter - Modem Null-Modem-Cable (twisted) Male to Male, Length: 3 m

Art.No	Article	Description
002993	Sunways cable type 5	for connection PC (USB) - Solar Inverter (NT 10000) USB device cable A Plug to B Plug, Length: 3 m
002994	Adapter cable USB to RS232	for adding a RS232 interface on a PC (via USB)
Interface Converter		
001140	Interface Converter RS232 to RS485	for connection of several Solar Inverters to a PC (RS232) housing for top head rail mounting, incl. applicable wall power supply
002995	Interface Converter USB to RS485	for connection of several Solar Inverters to a PC (USB) housing for top head rail mounting
002462	RS485 to Ethernet Converter	for connection of several Solar Inverters to an Ethernet Network housing for top head rail mounting, incl. applicable wall power supply
003005	RS485 Repeater	for signal boost in a RS485 network with more than 30 Solar Inverter at a single Sunways Communicator incl. applicable wall power supply