SUNNY TRIPOWER

Higher yields for private homes or small shops — intelligent solar power generation

Sunny Tripower

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The new **Sunny Tripower** ensures maximum energy yields for private homes or small shops. This inverter combines the integrated Service SMA Smart Connected service and intelligent technology for all ambient requirements. Thanks to its extremely light design, the device can be installed quickly and easily. The **Sunny Tripower** can be commissioned quickly via smartphone or tablet thanks to its integrated web interface. Current communication standards make the inverter future-proof, meaning intelligent energy management solutions as well as SMA storage solutions can be flexibly added anytime.

Compact

- One-person installation due to low weight.
- Compact design means minimum space requirements

Easy to use

- 100% plug and play installation
- Free online monitoring via Sunny Places
- Automated service thanks to SMA Smart Connected

High yields

- Use of surplus energy through dynamic active power limitation
- Yield increase without installation effort due to integrated shade management SMA ShadeFix

Combinable

- Intelligent energy management and storage solutions can be added anytime

SMA SMART CONNECTED

The integrated service for ease and comfort

SMA Smart Connected* is free monitoring of an inverter via the SMA Sunny Portal. If an inverter fails, SMA proactively informs the PV system owner and the installer. This saves valuable working time and costs.

With SMA Smart Connected, the installer benefits from rapid diagnoses by SMA. They can thus quickly rectify the fault and score points with the customer thanks to the additional, attractive services.

ACTIVATION OF SMA SMART CONNECTED

During registration of the system in the Sunny Portal, the installer activates SMA Smart Connected and benefits from automatic inverter monitoring by SMA.

AUTOMATIC INVERTER MONITORING

SMA takes on the job of inverter monitoring with SMA Smart Connected. SMA automatically checks the individual inverters for anomalies around the clock during operation. Every customer thus benefits from SMA's many years of experience.

REPLACEMENT SERVICE

If a replacement device is necessary, SMA automatically supplies a new inverter within one to three days of the fault diagnosis. The installer can contact the PV system operator of their own accord and replace the inverter.

PROACTIVE COMMUNICATION IN THE EVENT OF FAULTS

After a fault has been diagnosed and analyzed, SMA informs the installer and end customer immediately by e-mail. Everyone is thus optimally prepared for the troubleshooting process. This minimizes downtime and saves time and money. Regular power reports also provide valuable information about the overall system.

PERFORMANCE SERVICE

The PV system operator can claim compensation from SMA if the replacement inverter is not delivered within three days.

STP3.0 - STP6.0 SPECIFICATIONS

	STP3.0	STP4.0	STP5.0	STP6.0
Input (DC)				
Max. PV Array	6000 Wp	8000 Wp	9000 Wp	9000 Wp
Max. Input voltage	850 V	850 V	850 V	850 V
MPP Voltage range	140 to 800 V	175 to 800 V	215 to 800 V	260 to 800 V
Rated input voltage	580 V			
Min. Input voltage / initial input voltage	125 / 150 V			
Max. input Current input A / input B	12 A / 12 A			
Max. DC short-circuit current input A / input B	18 A / 18 A			
Number of independent MPP inputs / string per MPP input	2/ A: 1: B: 1			
Output (AC)				
Rated power (at 230 V 50 Hz)	3000 W	4000 W	5000 W	6000 W
Max. apparent Power CA	3000 VA	4000 VA	5000 VA	6000 VA
Nominal AC voltage	3/N/PE: 220 / 380 V 3/N/PE: 230 / 400 V 3/N/PE: 240 / 415 V			
AC Voltage range	180 to 280 V			
AC grid Frequency	50 - 60 Hz (45 to 65 Hz)			
Rated grid frequency	50 Hz / 230 V			
Max. output current	3 x 4,5 A	3 x 5,8 A	3 x 7,6 A	3 x 9,1 A
Power factor at rated power	1			
Displacement power factor, adjustable	0,8 overexcited to 0,8 underexcited			
Feed-in phases / connection phases	3 / 3			
Efficiency				
Max. Efficiency	98,2 %	98,2 %	98,2 %	98,2 %
European efficiency	96,5 %	97,1 %	97,4 %	97,6 %
Protective devices				
Input-side disconnection point	Yes	Yes	Yes	Yes
Ground fault monitoring	Yes	Yes	Yes	Yes
Grid monitoring	Yes	Yes	Yes	Yes
DC reverse polarity protection	Yes	Yes	Yes	Yes
AC Short circuit current capability	Yes	Yes	Yes	Yes
All pole sensitive residual current monitoring unit	Yes	Yes	Yes	Yes
Protection class according IEC 60529	I	I	I	I
Surge category according IEC 60664-1	III	III	III	III
General data				
Dimensions (w x h x d)	435 x 470 x 176 mm			
Weight	17 Kg			
Operating temperature range	-25 to 60 °C			
Noise emission, typical	30 dB			
Self-consumption	5.0 W			
Topology	Transformerless			
Cooling concept	Convection			
Degree of protection according IEC 60529	IP65			
Climatic category according IEC 60721-3-4	4K4H			
Max. permissible value for relative humidity	100% (non condensing)			
Equipment				
DC Connection	SUNCLIX			
AC Connection	AC Connector			
Display	Via Smartphone, tablet or laptop			
Interfaces:	WLAN / Ethernet / RS485			
Communication protocols	Modbus (SMA, Sunspec), Webconnect, SMA Data, TS4-R			
Shadefix	Integrated			
Certificates and permits	AS 4777, C10/11, CE, CEI 0-21, DIN EN 62109-1/IEC 62109-1, DIN EN 62109-2/IEC 62109-2, EN 50438, G59/3, G83/2, NEN-EN 50438, ÖVE / ÖNORM E 8001-4-712, PPDS, PPC, RD 1699, SI 4777, TR 3.2.1, UTE C15-712, VDE-AR-N 4105, VDE-0126-1-1, VFR 2014, RfG compliant			
Certificates and approvals (currently being planned)	DEWA 2016, EN 62116, IEC 61727, IE-EN 50438, NBR 16149, NRS 097-2-1			

STP8.0 - STP10.0 SPECIFICATIONS

	STP8.0	STP10.0
Input (DC)		
Max. PV Array	15000 Wp	15000 Wp
Max. Input voltage	1000 V	1000 V
MPP Voltage range	260 to 800 V	320 to 800 V
Rated input voltage	580 V	
Min. Input voltage / initial input voltage	125 / 150 V	
Max. input Current input A / input B	20 A / 12 A	
Max. DC short-circuit current input A / input B	30 A / 18 A	
Number of independent MPP inputs / string per MPP input	2/ A: 2: B: 1	
Output (AC)		
Rated power (at 230 V 50 Hz)	8000 W	10000 W
Max. apparent Power CA	8000 VA	10000 W
Nominal AC voltage	3/N/PE: 220 / 380 V 3/N/PE: 230 / 400 V 3/N/PE: 240 / 415 V	
AC Voltage range	180 to 280 V	
AC grid Frequency	50 - 60 Hz (45 to 65 Hz)	
Rated grid frequency	50 Hz / 230 V	
Max. output current	3 x 12,1 A	3 x 14,5 A
Power factor at rated power	1	
Displacement power factor, adjustable	0,8 overexcited to 0,8 underexcited	
Feed-in phases / connection phases	3 / 3	
Efficiency		
Max. Efficiency	98,3 %	98,3 %
European efficiency	97,7 %	98,0 %
Protective devices		
Input-side disconnection point	Yes	Yes
Ground fault monitoring	Yes	Yes
Grid monitoring	Yes	Yes
DC reverse polarity protection	Yes	Yes
AC Short circuit current capability	Yes	Yes
All pole sensitive residual current monitoring unit	Yes	Yes
Protection class according IEC 60529	I	I
Surge category according IEC 60664-1	III	III
General data		
Dimensions (w x h x d)	460 x 497 x 176 mm	
Weight	20,5 Kg	
Operating temperature range	-25 to 60 °C	
Noise emission, typical	30 dB	
Self-consumption	5.0 W	
Topology	Transformerless	
Cooling concept	Convection	
Degree of protection according IEC 60529	IP65	
Climatic category according IEC 60721-3-4	4K4H	
Max. permissible value for relative humidity	100% (non condensing)	
Equipment		
DC Connection	SUNCLIX	
AC Connection	AC Connector	
Display	Via Smartphone, tablet or laptop	
Interfaces:	WLAN / Ethernet / RS485	
Communication protocols	Modbus (SMA, Sunspec), Webconnect, SMA Data, TS4-R	
Shadefix	Integrated	
Certificates and permits	AS 4777.2, C10/11, CE, CEI 0-21, EN 50438, G59/3-4, G83/2-1, DIN EN 62109 / IEC 62109, NEN-EN50438, ÖVE/ÖNORM E 8001-4-712 & TOR D4, PPC, PPDS, RD1699, SI4777, TR3.2.1, UTE C15-712, VDE-AR-N 4105, VDE0126-1-1, VFR 2014, RfG compliant	
Certificates and approvals (currently being planned)	DEWA, IEC 61727, IEC 62116, IE-EN50438, MEA, NBR16149, NT_Ley20.571, PEA, TR3.2.2	

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