

SUNNY TRIPOWER 8.0 / 10.0 with SMA SMART CONNECTED



STP8.0-3AV-40 / STP10.0-3AV-40



SMA ShadeFix
STRING LEVEL OPTIMIZATION

Premium monitoring service
SMA SMART CONNECTED



Compact

- One-person installation due to low weight of 20.5 kg
- Compact design means minimum space requirements

Easy to use

- 100% plug and play installation
- Free online monitoring via SMA Energy App
- Automated service thanks to SMA Smart Connected
- Warranty extension from 5 to 10 years – free of charge

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
- Can be expanded with SMA Power Limiter for use of a ripple control receiver

SUNNY TRIPOWER 8.0 / 10.0

Higher yields for private homes – intelligent solar power generation

The new Sunny Tripower 8.0–10.0 ensures maximum energy yields for private homes. This inverter combines the integrated SMA Smart Connected service with intelligent technology for all ambient conditions. 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. For specific requirements on the roof, SMA ShadeFix maximizes the PV system's yield. Current communication standards make the inverter future-proof, meaning intelligent energy management solutions as well as SMA storage solutions can be flexibly added anytime.

Technical data	Sunny Tripower 8.0	Sunny Tripower 10.0
Input (DC)		
Max. PV array power	15000 Wp	15000 Wp
Max. input voltage	1000 V	1000 V
MPP voltage range	260 V to 800 V	320 V to 800 V
Rated input voltage	580 V	
Min. input voltage / initial input voltage	125 V / 175 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 / strings per MPP input	2 / A:2; B:1	
Output (AC)		
Rated power (at 230 V, 50 Hz)	8000 W	10000 W
Rated / Max. apparent power	8000 VA / 8000 VA	10000 VA / 10000 VA
Rated voltage	3 / N / PE; 220 V / 380 V 3 / N / PE; 230 V / 400 V 3 / N / PE; 240 V / 415 V	
Voltage range	180 V to 280 V	
Grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz	
Rated grid frequency / rated grid voltage	50 Hz / 230 V	
Rated / Max. output current	3 x 11.6 A / 3 x 12.1 A	3 x 14.5 A / 3 x 14.5 A
Power factor at rated power / displacement power factor adjustable	1 / 0.8 overexcited to 0.8 underexcited	
Feed-in phases / connection phases	3 / 3	
Efficiency		
Max. efficiency / European efficiency	98.3 % / 97.7 %	98.3 % / 98.0 %
Protective devices		
Input-side disconnection point	●	
Ground fault monitoring / grid monitoring	● / ●	
DC reverse polarity protection / AC short circuit current capability / galvanically isolated	● / ● / –	
All-pole-sensitive residual-current monitoring unit	●	
Protection class (according to IEC 61140) / surge category (according to IEC 60664-1)	I / III	
General data		
Dimensions (W / H / D)	460 mm / 497 mm / 176 mm (18.1 inches / 19.6 inches / 6.9 inches)	
Weight	20.5 kg (45.2 lbs)	
Operating temperature range	–25 °C to +60 °C (–13 °F to +140 °F)	
Noise emission, typical	30 dB(A)	
Self-consumption (at night)	5.0 W	
Topology / cooling method	Transformerless / convection	
Degree of protection (according to IEC 60529)	IP65	
Climatic category (according to IEC 60721-3-4)	4K4H	
Max. permissible value for relative humidity (non-condensing)	100%	
Features		
DC connection / AC connection	SUNCLIX / AC connector	
Display via smartphone, tablet, laptop	●	
Interfaces: WLAN / Ethernet / RS485	▲ / ● / ●	
Communication protocols	Modbus (SMA, Sunspec), Webconnect, SMA Data	
Shade management: SMA ShadeFix (integrated)	●	
Warranty: 5 / 10 / 15 years	● / ●* / ○	
Certificates and permits (more available upon request)	AS4777.2, C10/11, CE, CEI 0-21, DEWA 2016, DIN EN 62109-1/IEC 62109-1, DIN EN 62109-2/IEC 62109-2, DK1/2 Typ A, EN 50549-1, EN 62116, G98-1, G99-1, IEC 61727, IEC 50438, NEN-EN 50438, NRS 097-2-1, PPDS, PPC, RD 1699, SI 4777.2, TOR Erzeuger Typ A, UTE C15-712, VDE-AR-N 4105, VDE-0126-1-1, VFR 2014	
Certificates and approvals (planned)	NBR 16149	
Country availability of SMA Smart Connected	AU, AT, BE, CH, DE, ES, FR, IT, LU, NL, UK	
Type designation	STP8.0-3AV-40	STP10.0-3AV-40

*) Device registration via the SMA product registration homepage (sma-service.com). The conditions of the SMA limited factory warranty apply. You can find additional information at SMA-Solar.com