

Skype



SUNNY TRIPOWER 5 - 12000TL

After all, with the addition of the new 10 kVA and 12 kVA versions to the portfolio, the Sunny Tripower product range covers a broad spectrum of applications.



SMA Sunny Tripower



SMA Sunny Tripower



Sunny Tripower

SPECIFICATIONS

	STP 5000 TL	STP 6000 TL	STP 7000 TL	STP 8000 TL	STP 9000 TL	STP 10000 TL	STP 12000 TL
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DC Input

Max. DC	5100	6100	7175	8000	8800	10000	10075
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Max. DC power (a cos $\phi = 1$)	5100 W	6125 W	7175 W	8200 W	9225 W	10250 W	12275 W
Max. input voltage	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V
Rated input voltage	580 V	580 V	580 V	580 V	580 V	580 V	580 V
MPP Voltage Range	245 to 800 V		370 to 800 V			440 to 800 V	
Min. Input voltage	150 V	150 V	150 V	150 V	150 V	150 V	150 V
Start input voltage	188 V	188 V	188 V	188 V	188 V	188 V	188 V
Max. Input current. Input A / Input B	11 A / 10 A	11 A / 10 A	15 A / 10 A	15 A / 10 A	15 A / 10 A	18 A / 10 A	18 A / 10 A
Max. input current per string. Input A / Input B	11 A / 10 A	11 A / 10 A	15 A / 10 A	15 A / 10 A	15 A / 10 A	18 A / 10 A	18 A / 10 A
Number of independent MPP inputs / strings per MPP input	2 / A:2; B:2	2 / A:2; B:2	2 / A:2; B:2	2 / A:2; B:2	2 / A:2; B:2	2 / A:2; B:2	2 / A:2; B:2

AC Output

Rated power at 230 V 50 Hz	5000 W	6000 W	7000 W	8000 W	9000 W	10000 W	12000 W
Max. AC apparent power	5000 VA	6000 VA	7000 VA	8000 VA	9000 VA	10000 W	12000 W
Nominal AC voltage	3 / N / PE, 220 / 380V 3 / N / PE, 230 / 400 V 3 / N / PE, 240 / 415 V						
AC Voltage range	160 to 280 V	160 to 280 V	160 to 280 V	160 to 280 V	160 to 280 V	160 to 280 V	160 to 280 V
AC Grid frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Frequency range	-5 to +5 Hz	-5 to +5 Hz	-5 to +5 Hz	-5 to +5 Hz	-5 to +5 Hz	-5 to +5 Hz	-5 to +5 Hz
Rated grid voltage and frequency	230 V 50 Hz	230 V 50 Hz	230 V 50 Hz	230 V 50 Hz	230 V 50 Hz	230 V 50 Hz	230 V 50 Hz
Max. output current	7.3 A	8.7 A	10.2 A	11.6 A	13.1 A	14.5 A	17.4 A
Power factor at rated power	1	1	1	1	1	1	1
Adjustable displacement power factor	0.8 overexcited ... 0.8 underexcited						
Feed-in phases / connection phases	3 / 3	3 / 3	3 / 3	3 / 3	3 / 3	3 / 3	3 / 3

Efficiency

Max. Efficiency	98 %	98 %	98 %	98 %	98 %	98 %	98,3 %
European efficiency	97,1 %	97,4 %	97,5 %	97,6 %	97,6 %	97,6 %	97,9 %

Protective devices

DC disconnect device	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ground fault monitoring	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Grid monitoring	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DC reverse polarity protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AC short-circuit current capability	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Galvanic isolated	No	No	No	No	No	No	No
All-pole sensitive residual-current monitoring unit	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Protection class according to IEC 62103	I	I	I	I	I	I	I
Overvoltage category according to IEC 60664-1	III	III	III	III	III	III	III

General Data

Dimensions (W x H x D)	470 x 730 x 240 mm						
Weight	37 Kg	37 Kg	37 Kg	37 Kg	37 Kg	37 Kg	38 Kg
Operating temperature range	-25 °C to 60 °C	-25 °C to 60 °C	-25 °C to 60 °C	-25 °C to 60 °C	-25 °C to 60 °C	-25 °C to 60 °C	-25 °C to 60 °C
Noise emission (typical)	40 dB (A)	40 dB (A)	40 dB (A)	40 dB (A)	40 dB (A)	40 dB (A)	40 dB (A)
Night consumption	1 W	1 W	1 W	1 W	1 W	1 W	1 W
Topology	Transformerless						
Cooling concept	OptiCool						
Tipo de protección según IEC 60529	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Degree of protection according to IEC 60721.3-4	4K4H	4K4H	4K4H	4K4H	4K4H	4K4H	4K4H

Maximum Humidity (non-condensing)	100 %	100 %	100 %	100 %	100 %	100 %	100 %
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Features

DC connection	Sunclix
AC connection	Spring-cage terminal
Display	Graphic
Interface RS485	Optional
Bluetooth / Speedwire / Webconnect	Yes
Multifunction relay	Yes
Power control module	Optional
Warranty	5 years
Optional warranty extension	10, 15, 20 or 25 years
Certificates and permits	AS 4777, CE, CEI 0-213, C10/11:2012, DIN EN 62109-1, EN 504381, G59/3, G83/2, IEC 61727/MEA ² , IEC 61727/PEA ² , IEC 62109-2, NEN EN 50438, NRS 097-2-1, PPC, PPDS, RD 661/2007, RD 1699:2011, SI 4777, UTE C15-712-1, VDE0126-1-1, VDE AR-N 4105, VFR 2013, VFR 2014

ACCESSORIES

485 Interface Data Module Type B

- The 485 data module type B is the ideal solution for expansion of existing PV systems in which RS485 communication is already used. This standard interface makes proven, cable-based SMA fieldbus communication possible thanks to easy connection to a data logger with a cable length of up to 1,200 meters.

SMA Power Control Module PWCBRD-10


- The SMA Power Control Module is a multi-function interface that enables grid management services for one inverter, thus meeting, among others, the requirements of the Renewable Energy Sources Act 2012 (EEG 2012). In addition, the SMA Power Control Module is equipped with a multi-function relay to process various operating states of the inverter.

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SUNNY BOY 3.0 - 5.0

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