

SUNNY TRIPOWER TL

The versatile specialist for medium-scale commercial plants and solar power plants



Sunny Tripower TL



SMA Sunny Tripower



Sunny Tripower

The Sunny Tripower is the ideal inverter for large-scale commercial and industrial plants. Not only does it deliver extraordinary high yields with an efficiency of 98.4%, but it also offers enormous design flexibility and compatibility with many PV modules thanks to its multistring capabilities and wide input voltage range.

The future is now: the Sunny Tripower comes with cutting-edge grid management functions such as Integrated Plant Control, which allows the inverter to regulate reactive power at the point of common coupling. Separate controllers are no longer needed, lowering system costs. Another new feature—reactive power

provision on demand (Q on Demand 24/7).

Efficient

- Maximum efficiency of 98.4%

Safe

- DC surge arrester (SPD type II) can be integrated

Flexible

- DC input voltage of up to 1000 V • Multistring capability for optimum system design
- Optional display

Innovative

- Cutting-edge grid management functions with Integrated Plant Control
- Reactive power available 24/7 (Q on Demand 24/7)

SPECIFICATIONS

	Sunny Tripower 15000TL	Sunny Tripower 20000TL	Sunny Tripower 25000TL
Input (DC)			
Max. generator power	27000 Wp	36000 Wp	45000 Wp
DC Rated power	15330 W	20440 W	25550 W
Max. input voltage	1000 V	1000 V	1000 V
MPP Voltage range	240 to 800 V	320 to 800 V	390 to 800 V
Rated input voltage	600 V	600 V	600 V
Min. input voltage / start input voltage	150 V / 188 V	150 / 188 V	150 / 188 V
Max. input current input A / input B	33 A / 33 A	33 A / 33 A	33 A / 33 A
Number of independent MPP inputs / strings per MPP input	2 / A: 3.; B:3	2 / A: 3.; B:3	2 / A: 3.; B:3
Output (AC)			
Rated power (at 230 V, 50 Hz)	15000 W	20000 W	25000 W
Max. AC apparent power	15000 VA	20000 VA	25000 VA
AC nominal voltage	3 / N/PE: 220 V / 380 V 3 / N/PE: 230 V / 400 V 3 / N/PE: 240 V / 415 V		
AC voltage range	180 to 280 V		

AC grid frequency	50 - 60 Hz		
AC frequency range	45 - 65 Hz		
Max. output current	29 A	29 A	36,2 A
Rated output current	21,7 A	29 A	36,2 A
Power factor of rated power	1		
Adjustable displacement power factor	1 / 0 overexcited to 0 underexcited		
THD	≤ 3%		
Feed in phases / Connection phases	3 / 3		
Efficiency			
Max. efficiency	98,4 %	98,4 %	98,3 %
European efficiency	98,0 %	98,0 %	98,1 %
Protective devices			
DC-side disconnection device	Yes	Yes	Yes
Ground fault monitoring	Yes	Yes	Yes
Grid monitoring	Yes	Yes	Yes
DC Surge arrester (Type II)	Optional	Optional	Optional
DC Reverse polarity protection	Yes	Yes	Yes
AC Short-circuit current capability	Yes	Yes	Yes
All-pole sensitive residual-current monitoring unit	Yes	Yes	Yes
Protection class according IEC 62109-1	I	I	I
Overvoltage category according IEC 62109-1	AC: III; DC: II	AC: III; DC: II	AC: III; DC: II
General data			
Dimensions (w x h x d)	661 x 682 x 264 mm		
Weight	61 Kg		

Operating temperature range	-25 to 60 °C
Noise emission (Typical)	51 dB
Self-consumption (at night)	1 W
Topology	Transformerless
Cooling concept	Opticool
Degree of protection according IEC 60529	IP65
Climatic category according IEC 60721-3-4	4K4H
Max. permissible value for relative humidity	100% (non condensing)

Features / function / accessories

DC Connection	SUNCLIX		
AC Connection	Spring-cage terminal		
Display	Optional	Optional	Optional
RS 485 / Spedwire	Optional	Optional	Optional
Webconnect	Yes	Yes	Yes
SMA Modbus / Sunspec Modbus	Yes	Yes	Yes
Multifunction relay	Optional	Optional	Optional
Power control module	Optional	Optional	Optional
OptiTrac Global Peak	Yes	Yes	Yes
Integrated Plant Control	Yes	Yes	Yes
Q on demand 24/7	Yes	Yes	Yes
Off-grid capable	Yes	Yes	Yes
SMA Fuel Save Controller compatible	Yes	Yes	Yes
Guarantee	5 years (10, 15, 20 years optional)		
Planned certificates and permits	ANRE 30, AS 4777, BDEW 2008, C10/11:2012, CE, CEI 0-16, CEI 0-21, DEWA 2.0, EN 50438:2013*, G59/3, IEC 60068-2-x, IEC 61727.		

IEC 62109-1/2, IEC 62116, EN
50438 MEA 2013, NBR 16149,
NEN EN 50438, NRS 097-2-1, PEA
2013, PPC, RD 1699/413, RD
661/2007, Res. n°7:2013, SI4777,
TOR D4, TR 3.2.2, UTE C15-712-1,
VDE 0126-1-1, VDE-AR-N 4105,
VFR 2014

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