SUNNY TRIPOWER 10000TL / 12000TL / 15000TL / 17000TL





Efficient

- Maximum efficiency of 98.1 %
- OptiTrac-Global Peak for best tracking efficiency*
- Bluetooth® Communication

Safe

- Electronic string fuse and failure detection
- Integrable DC overvoltage protector (Type II)
- String current monitoring

Flexible

- DC input voltage up to 1,000 V
- Integrated grid management functions
- Tailor made plant design with Optiflex

Simple

- Three-phase feed-in
- Cable connection without tools
- DC plug system SUNCLIX
- Easily accessible connection area

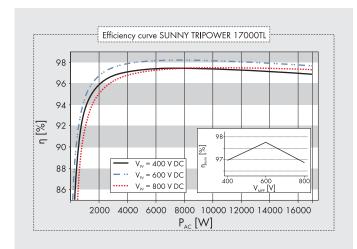
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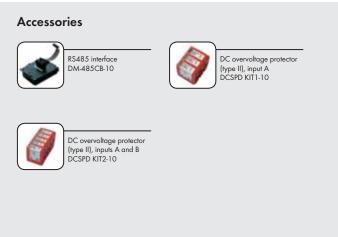
The three-phase inverter for easy system design

Packed full of pioneering technology: thanks to the new Optiflex technology with two MPP inputs and its very broad input voltage range, the three-phase Sunny Tripower is suited to almost any module configuration. In addition, it is highly flexible in terms of the plant design – right up to the megawatt range. The Sunny Tripower meets all the requirements for reactive power supply, utility interaction management and grid support, thus making a reliable contribution to grid management. The extensive Optiprotect safety concept, with its self-learning string failure detection, electronic string fuse and integrable DC overvoltage protector Type II, ensures maximum availability.

Technical data	Sunny Tripower 10000TL	Sunny Tripower 12000TL	Sunny Tripower 15000TL	Sunny Tripower 17000TL
Input (DC)				
Max. DC power (@ $\cos \varphi = 1$)	10200 W	12250 W	15340 W	17410 W
Max. DC voltage	1000 V	1000 V	1000 V	1000 V
MPP voltage range	320 V - 800 V	380 V - 800 V	360 V - 800 V	400 V - 800 V
DC nominal voltage	600 V	600 V	600 V	600V
Min. DC voltage / start voltage	150 V / 188 V			
Max. input current / per string	A: 22 A, B: 11 A / 33 A	A: 22 A, B: 11 A / 33 A	A: 33 A, B: 11 A / 33 A	A: 33 A, B: 11 A / 33 A
Number of MPP trackers / strings per MPP tracker	2 / A: 4, B: 1	2 / A: 4, B: 1	2 / A: 5, B: 1	2 / A: 5, B: 1
Output (AC)				
AC nominal power (@ 230 V, 50 Hz)	10000 W	12000 W	15000 W	17000 W
Max. AC apparent power	10000 VA	12000 VA	15000 VA	17000 VA
Nominal AC voltage; range		3 / N / PE, 230 V / 4	100 V; 160 V - 280 V	
AC grid frequency; range	50, 60 Hz; -6 Hz, +5 Hz	50, 60 Hz; -6 Hz, +5 Hz	50, 60 Hz; -6 Hz, +5 Hz	50, 60 Hz; -6 Hz, +5 H
Max. output current	16 A	19.2 A	24 A	24.6 A
Power factor (cos φ)		0.8 leading 0.8 lagging		
Phase conductors / connection phases / power balancing	3/3/-	3/3/-	3/3/-	3/3/-
Efficiency	, ,	, ,	, ,	, ,
Max. efficiency / Euro-eta	98.1 % / 97.7 %	98.1 % / 97.7 %	98.2 % / 97.8 %	98.2 % / 97.8 %
Protection devices	,	,	,	,
DC reverse-polarity protection / reverse current protection	/electronic	/electronic	/electronic	/electronic
ESS switch-disconnector	•	•	•	•
AC short circuit protection	•	•	•	•
Ground fault monitoring	•	•	•	•
Grid monitoring (SMA Grid Guard)	•	•	•	•
Galvanically isolated / all-pole sensitive fault current monitoring unit	-/•	-/●	-/●	-/•
DC overvoltage protector type II	0	0	0	0
String failure detection	•	•	•	•
Protection class / overvoltage category	1/111	1/111	1/111	1/111
General data	17	17 111	17 111	17
Dimensions (W / H / D) in mm	665 / 690 / 265	665 / 690 / 265	665 / 690 / 265	665 / 690 / 265
Weight	65 kg	65 kg	65 kg	65 kg
Operating temperature range	-25 °C +60 °C			
Noise emission (typical)	www.SMA-Solar.com	www.SMA-Solar.com	www.SMA-Solar.com	www.SMA-Solar.com
Internal consumption (night)	1 W	1 W	1 W	1 W
Topology	transformerless	transformerless	transformerless	transformerless
Cooling concept	OptiCool	OptiCool	OptiCool	OptiCool
Electronics protection rating / connection area	Орисоог	Оріїсоої	Оріїсоої	Оріїсоої
(as per IEC 60529)	IP65 / IP54	IP65 / IP54	IP65 / IP54	IP65 / IP54
Climatic category (per IEC 60721-3-4)	4K4H	4K4H	4K4H	4K4H
Features				
DC connection: SUNCLIX	•	•	•	•
AC connection: screw terminal / spring-type terminal	-/●	-/●	-/•	-/●
Display: text line / graphic	-/●	-/•	-/•	-/●
Interfaces: RS485 / Bluetooth®	0/•	0/•	0/•	0/•
Warranty: 5 / 10 / 15 / 20 / 25 years	•/0/0/0/0	•/0/0/0/0	•/0/0/0/0	•/0/0/0/0
Certificates and permits (more available on request)	CE, VDE 0126-1-1	, Enel-GUIDA*, G83/1-1, PPC,	AS4777, EN 50438**, C10/	C11, IEC 61727*
* In planning, ** Does not apply to all national deviation	ons of EN 50438			
 Standard features Optional features 				

STP 10000TL-10





Type designation