

SUNNY TRIPOWER 8000TL

STP 8000TL-10



Economical

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

Reliability

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

Flexibility

- 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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With three phases for simple system planning

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, feed 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 8000TL
Input (DC)	
Max. DC power (@ $\cos \phi = 1$)	8200 W
max. DC voltage	1000 V
MPP voltage range	320 V - 800 V
DC nominal voltage	600 V
Min. DC voltage/start voltage	150 V/188 V
Max. input current / per string	A: 22 A, B: 11 A / 33 A
Number of MPP trackers / strings per MPP tracker	2 / A: 4, B: 1
Output (AC)	
AC nominal power (@ 230 V, 50 Hz)	8000 W
Max. AC apparent power	8000 VA
Nominal AC voltage; range	3 / N / PE, 230 V / 400 V; 160 V - 280 V
AC grid frequency; range	50, 60 Hz; -6 Hz, +5 Hz
Max. output current	16 A
power factor ($\cos \phi$)	0.8 leading ... 0.8 lagging
Phase conductors / connection phases / power balancing	3 / 3 / -
Efficiency	
Max. efficiency / Euro-Eta	98.1 % / 97.5 %
Protective Devices	
DC reverse-polarity protection / reverse current protection	●/electronic
ESS switch-disconnector	●
AC short circuit protection	●
Ground fault monitoring	●
Grid monitoring (SMA Grid Guard)	●
Galvanically insulated / all-pole sensitive fault current monitoring unit	-/●
DC overvoltage protector type II	○
String failure detection	●
Protection class / overvoltage category	I / III
General data	
Dimensions (W / H / D) in mm	665 / 690 / 265
Weight	65 kg
Operating temperature range	-25 °C ... +60 °C
Noise emission, typical	www.SMA-Solar.com
Internal consumption (at night)	1 W
Topology	transformerless
Cooling concept	OptiCool
Electronics protection rating / connection area (per IEC 60529)	IP65 / IP54
Climatic category (per IEC 60721-3-4)	4K4H
Features	
DC connection: SUNCLIX	●
AC connection: screw terminal / spring-type terminal	-/●
Display: text line / graphic	-/●
Interfaces: RS485 / Bluetooth®	○/●
Warranty: 5 / 10 / 15 / 20 / 25 years	●/○/○/○/○
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	
● Standard features ○ Optional features - not available	
Provisional data, as of January 2011 - data at nominal conditions	
type designation	STP 8000TL-10

Accessories



RS485 interface
DM-485CB-10



DC overvoltage protector
(type II), input A
DCSPD KIT1-10



DC overvoltage protector
(type III), inputs A and B
DCSPD KIT2-10