

SUNNY TRIPOWER

8000TL / 10000TL / 12000TL / 15000TL / 17000TL



STP 8000TL-10 / STP 10000T-10 / STP 12000TL-10 / STP 15000TL-10 / STP 17000TL-10



Economical

- Maximum efficiency of 98.2 %
- SMA OptiTrac Global Peak MPP tracking for best MPP tracking efficiency
- Bluetooth® communication

Reliable

- Triple protection with Optiprotect:
- Electronic string fuse
- Self-learning string failure detection
- DC surge arrester (Type II) can be integrated

Flexible

- DC input voltage up to 1000 V
- Integrated grid management functions
- Custom plant design with Optiflex

Simple

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

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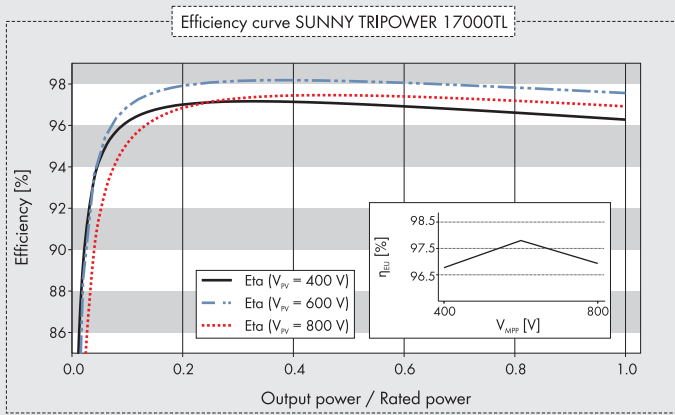
The three-phase inverter for easy plant design

Full of pioneering technology: highly flexible plant design with the three-phase Sunny Tripower inverter. Thanks to Optiflex technology, two MPP inputs and a broad input voltage range, it is suited to almost any module configuration. It meets any requirement such as reactive power supply, grid support thus reliably participating in grid management. The safety concept Optiprotect with its self-learning string-failure detection, electronic string fuse and integrable DC surge arrester type II, ensures maximum availability.








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Technical Data	Sunny Tripower 8000TL
Input (DC)	
Max. DC power (@ cos φ=1)	8200 W
Max. input voltage	1000 V
MPP voltage range / rated input voltage	320 V – 800 V / 600 V
Min. input voltage / initial input voltage	150 V / 188 V
Max. input current input A / input B	22 A / 11 A
Max. input current per string input A* / input B*	33 A / 12.5 A
Number of independent MPP inputs / strings per MPP input	2 / A:4; B:1
Output (AC)	
Rated power (@ 230 V, 50 Hz)	8000 W
Max. apparent AC power	8000 VA
Nominal AC voltage	3 / N / PE; 220 / 380 V 3 / N / PE; 230 / 400 V 3 / N / PE; 240 / 415 V
Nominal AC voltage range	160 V – 280 V
AC power frequency / range	50 Hz, 60 Hz / –6 Hz ... +5 Hz
Rated grid frequency / rated grid voltage	50 Hz / 230 V
Max. output current	16 A
Power factor at rated power	1
Adjustable displacement factor	0.8 overexcited... 0.8 underexcited
Phase conductors / connection phases	3 / 3
Efficiency	
Max. efficiency / European efficiency	98.1 % / 97.5 %
Protection	
Input-side disconnection device	●
Ground-fault monitoring / grid monitoring	● / ●
DC surge arrester Type II, can be integrated	○
DC reverse-polarity protection / AC short-circuit current capability / galvanically isolated	● / ● / –
All-pole sensitive residual current monitoring unit	●
Protection class (according to IEC 62103) / overvoltage category (according to IEC 60664-1)	I / III
General Data	
Dimensions (W / H / D)	665 / 690 / 265 mm (26.2 / 27.2 / 10.4 in)
Weight	59 kg / 130.07 lb
Operating temperature range	–25 °C...+60 °C / –13 °F...+140 °F
Noise emission (typical)	51 dB(A)
Self-consumption at night	1 W
Topology / cooling concept	Transformerless / OptiCool
Degree of protection (according to IEC 60529)	IP65
Climatic category (according to IEC 60721-3-4)	4K4H
Maximum permissible value for relative humidity (non-condensing)	100 %
Features	
DC terminal	SUNCLIX
AC terminal	Spring-type terminal
Display	Graphic
Interface: RS485 / Bluetooth / Webconnect / Speedwire ³	○ / ● / ○ / ○
Multi-function relay / Power Control Module	○ / ○
Warranty: 5 / 10 / 15 / 20 / 25 years	● / ○ / ○ / ○ / ○
Certificates and approvals (more available on request)	CE, VDE0126-1-1, RD 661/2007, G59/2, PPC, AS4777, SI4777, EN 50438 ¹ , C10/11, PPDS, IEC 61727, UTEC 15-712-1, VDE-AR-N 4105, RD 1699, CEI 0-21
<p>● Standard features ○ Optional features – Not available Data at nominal conditions</p>	
Type designation	STP 8000TL-10



Accessories

-  RS485 interface DM-485CB-10
-  DC surge arrester (Type II), input A DCSPD KIT1-10
-  DC surge arrester (Type II), inputs A and B DCSPD KIT2-10
-  Power Control Module PWCMOD-10
-  Multi-function relay MFR01-10
-  Webconnect interface with WEBCONDM-10 Speedwire function
-  Interface to Speedwire fieldbus SPWDM-10

¹ Does not apply to all national deviations of EN 50438
² To be observed in case of a short circuit in the electronic string fuse
³ Planned (certificates, approvals, accessories)

Provisional data, as of July 2012

Sunny Tripower 10000TL	Sunny Tripower 12000TL	Sunny Tripower 15000TL	Sunny Tripower 17000TL
10200 W	12250 W	15340 W	17410 W
1000 V	1000 V	1000 V	1000 V
320 V - 800 V / 600 V	380 V - 800 V / 600 V	360 V - 800 V / 600 V	400 V - 800 V / 600 V
150 V / 188 V	150 V / 188 V	150 V / 188 V	150 V / 188 V
22 A / 11 A	22 A / 11 A	33 A / 11 A	33 A / 11 A
33 A / 12.5 A	33 A / 12.5 A	40 A / 12.5 A	40 A / 12.5 A
2 / A:4; B:1	2 / A:4; B:1	2 / A:5; B:1	2 / A:5; B:1
10000 W	12000 W	15000 W	17000 W
10000 VA	12000 VA	15000 VA	17000 VA
3 / N / PE; 220 / 380 V	3 / N / PE; 220 / 380 V	3 / N / PE; 220 / 380 V	3 / N / PE; 220 / 380 V
3 / N / PE; 230 / 400 V	3 / N / PE; 230 / 400 V	3 / N / PE; 230 / 400 V	3 / N / PE; 230 / 400 V
3 / N / PE; 240 / 415 V	3 / N / PE; 240 / 415 V	3 / N / PE; 240 / 415 V	3 / N / PE; 240 / 415 V
160 V - 280 V	160 V - 280 V	160 V - 280 V	160 V - 280 V
50 Hz, 60 Hz / -6 Hz ... +5 Hz	50 Hz, 60 Hz / -6 Hz ... +5 Hz	50 Hz, 60 Hz / -6 Hz ... +5 Hz	50 Hz, 60 Hz / -6 Hz ... +5 Hz
50 Hz / 230 V	50 Hz / 230 V	50 Hz / 230 V	50 Hz / 230 V
16 A	19.2 A	24 A	24.6 A
1	1	1	1
0.8 overexcited... 0.8 underexcited	0.8 overexcited... 0.8 underexcited	0.8 overexcited... 0.8 underexcited	0.8 overexcited... 0.8 underexcited
3 / 3	3 / 3	3 / 3	3 / 3
98.1 % / 97.7 %	98.1 % / 97.7 %	98.2 % / 97.8 %	98.2 % / 97.8 %
●	●	●	●
● / ●	● / ●	● / ●	● / ●
○	○	○	○
● / ● / -	● / ● / -	● / ● / -	● / ● / -
●	●	●	●
I / III	I / III	I / III	I / III
665 / 690 / 265 mm (26.2 / 27.2 / 10.4 in)	665 / 690 / 265 mm (26.2 / 27.2 / 10.4 in)	665 / 690 / 265 mm (26.2 / 27.2 / 10.4 in)	665 / 690 / 265 mm (26.2 / 27.2 / 10.4 in)
59 kg / 130.07 lb	59 kg / 130.07 lb	59 kg / 130.07 lb	59 kg / 130.07 lb
-25 °C...+60 °C / -13 °F...+140 °F	-25 °C...+60 °C / -13 °F...+140 °F	-25 °C...+60 °C / -13 °F...+140 °F	-25 °C...+60 °C / -13 °F...+140 °F
51 dB(A)	51 dB(A)	51 dB(A)	51 dB(A)
1 W	1 W	1 W	1 W
Transformerless / OptiCool	Transformerless / OptiCool	Transformerless / OptiCool	Transformerless / OptiCool
IP65	IP65	IP65	IP65
4K4H	4K4H	4K4H	4K4H
100 %	100 %	100 %	100 %
SUNCLIX	SUNCLIX	SUNCLIX	SUNCLIX
Spring-type terminal	Spring-type terminal	Spring-type terminal	Spring-type terminal
Graphic	Graphic	Graphic	Graphic
○ / ● / ○ / ○	○ / ● / ○ / ○	○ / ● / ○ / ○	○ / ● / ○ / ○
○ / ○	○ / ○	○ / ○	○ / ○
● / ○ / ○ / ○ / ○	● / ○ / ○ / ○ / ○	● / ○ / ○ / ○ / ○	● / ○ / ○ / ○ / ○

CE, VDE0126-1-1, RD 661/2007, G59/2, PPC, AS4777, SI4777, EN 50438¹, C10/11, PPDS, IEC 61727, UTE C15-712-1, VDEAR-N 4105, BDEW 2008, RD 1699, CEI 0-21

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