

STP 20000TL-30 / STP 25000TL-30



Efficient

- Maximum efficiency of 98.5 %

Safe

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

Flexible

- DC input voltage of up to 1,000 V
- Multistring capability for optimum system design

Innovative

- Cutting-edge grid management functions with Integrated Plant Control*
- Reactive power available 24/7 (QonDemand24/7)*

SUNNY TRIPOWER 20000TL / 25000TL

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

The Sunny Tripower 20000TL/25000TL is the ideal inverter for large-scale commercial and industrial plants. Not only does it deliver extraordinary high yields with an efficiency of 98.5%, 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 20000TL/25000TL 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 (QonDemand24/7)*.

Accessories



RS485 interface
DM-485CB-10



Power Control Module
PWCMOD-10



DC surge arrester (Type II),
inputs A and B



Speedwire/Webconnect
interface SWDM-10



Multifunction relay
MFR01-10

¹ Does not apply to all national appendices of EN 50438

² Planned

● Standard features ○ Optional features – Not available
Data at nominal conditions
Preliminary information - last updated: May 2014

Technical Data	Sunny Tripower 20000TL	Sunny Tripower 25000TL
Input (DC) Input (DC)		
Max. DC power (@ $\cos \phi = 1$)	20440 W	25550 W
Max. input voltage	1000 V	1000 V
MPP voltage range / rated input voltage	320 V to 800 V / 600 V	390 V to 800 V / 600 V
Min. input voltage / start input voltage	150 V / 188 V	150 V / 188 V
Max. input current input A / input B	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
Output (AC)		
Rated power (@ 230 V, 50 Hz)	20000 W	25000 W
Max. AC apparent power	20000 VA	25000 VA
AC nominal voltage	3 / N / PE; 220 / 380 V 3 / N / PE; 230 / 400 V 3 / N / PE; 240 / 415 V	3 / N / PE; 220 / 380 V 3 / N / PE; 230 / 400 V 3 / N / PE; 240 / 415 V
Nominal AC voltage range	160 V to 280 V	160 V to 280 V
AC grid frequency / range	50 Hz, 60 Hz / -6 Hz to +5 Hz	50 Hz, 60 Hz / -6 Hz to +5 Hz
Rated power frequency / rated grid voltage	50 Hz / 230 V	50 Hz / 230 V
Max. output current	29 A	36.2 A
Power factor at rated power	1	1
Adjustable displacement power factor	0 overexcited to 0 underexcited	0 overexcited to 0 underexcited
Feed-in phases / connection phases	3 / 3	3 / 3
Efficiency		
Max. efficiency	98.5 %	98.5 %
Protective devices		
Input-side disconnection point	●	●
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	I / III
General data		
Dimensions (W / H / D)	665 / 690 / 265 mm (26.2 / 27.2 / 10.4 inch)	665 / 690 / 265 mm (26.2 / 27.2 / 10.4 inch)
Weight	61 kg (134.48 lb)	61 kg (134.48 lb)
Operating temperature range	-25 °C to +60 °C (-13 °F to +140 °F)	-25 °C to +60 °C (-13 °F to +140 °F)
Noise emission (typical)	51 dB(A)	51 dB(A)
Self-consumption (at night)	1 W	1 W
Topology / cooling concept	Transformerless / Opticool	Transformerless / Opticool
Degree of protection (as per IEC 60529)	IP65	IP65
Climatic category (according to IEC 60721-3-4)	4K4H	4K4H
Maximum permissible value for relative humidity (non-condensing)	100 %	100 %
Features		
DC connection / AC connection	SUNCLIX / spring-cage terminal	SUNCLIX / spring-cage terminal
Display	-	-
Interface: RS485, Speedwire/Webconnect	○ / ○	○ / ○
Multifunction relay / Power Control Module	○ / ○	○ / ○
Guarantee: 5 / 10 / 15 / 20 / 25 years	● / ○ / ○ / ○ / ○	● / ○ / ○ / ○ / ○
Planned certificates and permits (more available on request)	AS 4777, BDEW 2008, C10/11, CE, CEI 0-16, CEI 0-21, EN 50438, G59/3, IEC61727, IEC 62109-1/2, NEN EN 50438, PPC, RD 1699, RD 661/2007, SI4777, UTE C15-712-1, VDE 0126-1-1, VDE-AR-N 4105	
Type designation	STP 20000TL-30	STP 25000TL-30