

THREE PHASE INVERTER 20000TL / 25000TL



Description

Solahart's three-phase inverters are setting new standards in inverter technology. The Sunny Tripower 20000TL and 25000TL inverters are ideal for large-scale commercial and industrial plants. Not only do they deliver optimum solar yields with OptiTrac Global Peak shade management and an efficiency of 98.4%, but they also offer enormous design flexibility thanks to their multistring capabilities and wide input voltage ranges.

Features include a simplified installation concept, and the possibility of remote monitoring over the internet.

Solahart's multi-string inverters provide maximum flexibility for design and are the first choice for demanding generator installations.

Key Features

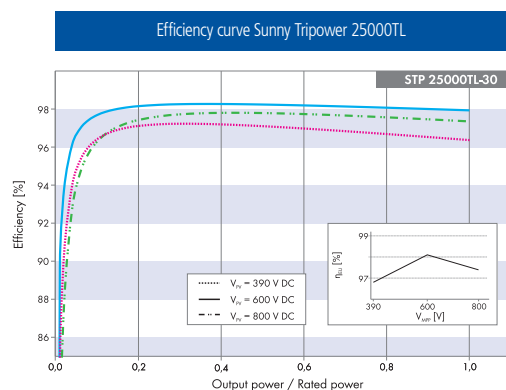
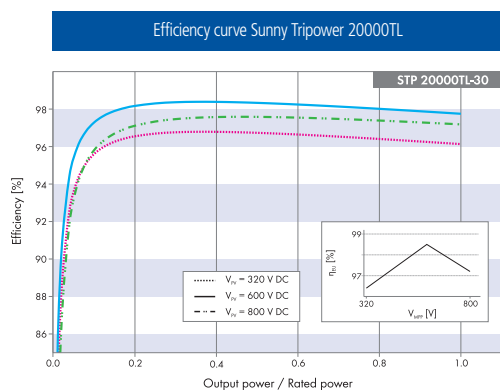
- DC input voltage of up to 1,000 V
- Multistring capability for optimum system design.
- State of the art, transformerless technology
- Remote monitoring over the internet

Key Benefits

- Maximum efficiency of 98.4%
- Optimum solar yield
- Includes an Integrated Electronic Solar Switch to safely disconnect your system
- 5 year warranty* for peace of mind

Technical data	Sunny Tripower 20000TL	Sunny Tripower 25000TL
Input (DC)		
Max. DC power (@ $\cos \phi = 1$) / DC rated power	20440 W / 20440 W	25550 W / 25550 W
Max. input voltage	1000 V	1000 V
MPP voltage range / rated input voltage	320 V ... 800 V / 600 V	390 V ... 800 V / 600 V
Min. input voltage / initial 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	25000W
Max. apparent AC power	20000 VA	25000 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	180 V - 280 V	
AC power frequency / range	50 Hz / 44 Hz ... 55 Hz	
Rated power frequency / rated grid voltage	50 Hz / 230 V	
Max. output current / Rated output current	29 A / 29 A	36.2 A / 36.2 A
Power factor at rated power / Adjustable displacement power factor	1 / 0 overexcited ... 0 underexcited	1 / 0 overexcited ... 0 underexcited
THD	$\leq 3\%$	
Feed-in phases / connection phases	3 / 3	
Efficiency		
Max. efficiency / European weighted efficiency	98.4% / 98.0%	98.3% / 98.1%
Protection devices		
DC disconnect device	•	•
Ground fault monitoring / grid monitoring	•/•	•/•
DC reverse polarity protection / AC short-circuit current capability	•/•	•/•
All-pole-sensitive residual-current monitoring unit	•	•
Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	I / AC: III; DC:II	I / AC: III; DC:II
General data		
Dimensions (W / H / D) in mm	661 / 682 / 264 mm	661 / 682 / 264 mm
Weight	61 kg	61 kg
Operating temperature range	-25°C ... +60°C	-25°C ... +60°C
Noise emission (typical)	51 dB(A)	51 dB(A)
Self-consumption (night)	1 W	1 W
Topology	Transformerless	Transformerless
Cooling concept	OptiCool	OptiCool
Degree of protection (according to 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
OptiTrack Global Peak / Integrated Plant Control / Q on Demand 24/7	• / • / •	• / • / •
Interfaces: Webconnect	•	•
Warranty	5 years*	5 years*
Certificates and approvals	AS 4777, CE, CEI 0-21, C10/11:2012, IEC 62109-1/2, EN50438 ¹ , G59/3, IEC 61727, NEN EN 50438, NRS 097-2-1, PPC, IEC 62116, IEC 60068-2-x, RD 661/2007, RD 1699/413, UTE C15-712-1, VDE0126-1-1, VDE-AR-N 4105, VFR 2014	
SMA type designation	STP 20000TL-30	STP 25000TL-30

*For full details see Solahart Owners Guide & Installation Instructions • Standard features ○ Optional features
Data at nominal conditions 1. Does not apply to all national appendices of EN 50438



Specifications and designs included in this datasheet are subject to change without notice.

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