

## SOLAHART INVERTER 3000TL / 4000TL / 5000TL



### Description

More communicative, easier to use and more efficient, the Solahart TL inverters are setting new standards in inverter technology.

A modern graphic display, readout of daily values even after sunset, simplified installation concept and wireless communication via Bluetooth®.

With OptiTrac Global Peak shade management and an optimal efficiency of 97% the inverters ensure optimum solar yield.

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



### Key Features

- Graphic display
- Bluetooth® technology as standard
- State of the art, transformerless technology
- Solahart 5 year warranty\*

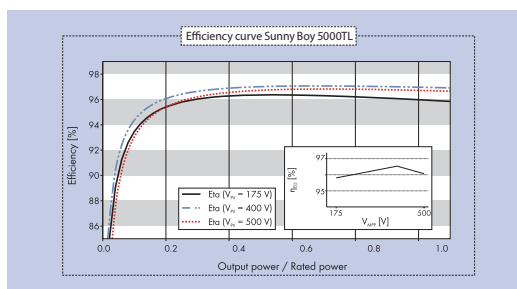
### Key Benefits

- Easy to read performance data
- Option to monitor system performance via home PC
- Maximum efficiency of 97%
- Backed by Solahart for peace of mind

Technical data	Sunny Boy 3000TL	Sunny Boy 4000TL	Sunny Boy 5000TL
<b>Input (DC)</b>			
Max. DC power (@ $\cos \phi = 1$ )	3200 W	4200 W	5250 W <sup>3</sup>
Max. input voltage	750 V	750 V	750 V
MPP voltage range / rated input voltage	175 V - 500 V / 400V	175 V ... 500 V/400 V	175 V ... 500 V/400 V
Min. input voltage / initial input voltage	125 V / 150 V	125 V / 150 V	125 V / 150 V
Max. input current input A / input B	15 A / 15 A	15 A / 15 A	15 A / 15 A
Max. input current per string input A / input B	15 A / 15 A	15 A / 15 A	15 A / 15 A
Number of independent MPP inputs / strings per MPP input	2 / A:2; B:2	2 / A:2; B:2	2 / A:2; B:2
<b>Output (AC)</b>			
Rated power (@ 230 V, 50 Hz)	3000 W	4000 W	4600 W
Max. apparent AC power	3000 VA	4000 VA	5000 VA <sup>2</sup>
Nominal AC voltage	220 V, 230 V, 240 V	220 V, 230 V, 240 V	220 V, 230 V, 240 V
Nominal AC voltage range	180 V – 280 V	180 V – 280 V	180 V – 280 V
AC power frequency / range	50 Hz, 60 Hz / -5 Hz +5 Hz	50 Hz, 60 Hz / -5 Hz +5 Hz	50 Hz, 60 Hz / -5 Hz +5 Hz
Rated power frequency / rated grid voltage	50 Hz / 230 V	50 Hz / 230 V	50 Hz / 230 V
Max. output current	16 A	22 A	22 A
Power factor at rated power	1	1	1
Displacement power factor, adjustable	0.8 overexcited, 0.8 underexcited	0.8 overexcited, 0.8 underexcited	0.8 overexcited, 0.8 underexcited
Feed-in phases / connection phases	1/1	1/1	1/1
<b>Efficiency</b>			
Max. efficiency / European weighted efficiency	97% / 96%	97% / 96.4%	97% / 96.5%
<b>Protection devices</b>			
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 62103) / overvoltage category (according to IEC 60664-1)	I / III	I / III	I / III
<b>General data</b>			
Dimensions (W / H / D) in mm	490 / 519 / 185	490 / 519 / 185	490 / 519 / 185
Weight	26 kg	26 kg	26 kg
Operating temperature range	-25°C ... +60°C	-25°C ... +60°C	-25°C ... +60°C
Noise emission (typical)	25 dB(A)	25 dB(A)	25 dB(A)
Self-consumption (night)	1 W	1 W	1 W
Topology	Transformerless	Transformerless	Transformerless
Cooling concept	Convection	Convection	Convection
Degree of protection (according to IEC 60529)	IP65	IP65	IP65
Climatic category (according to IEC 60721-3-4)	4K4H	4K4H	4K4H
Maximum permissible value for relative humidity (non-condensing)	100 %	100 %	100 %
<b>Features</b>			
DC connection / AC connection	Sunclix / Spring clamp terminal	Sunclix / Spring clamp terminal	Sunclix / Spring clamp terminal
Display	Graphic	Graphic	Graphic
Interfaces: Bluetooth®	•	•	•
Warranty	5 years*	5 years*	5 years*
Certificates and approvals	CE, VDE0126-1-1, VDE-AR-N 4105, EN50438 <sup>1</sup> , IEC 61727, AS 4777		
SMA type designation	SB3000TL-21	SB4000TL-21	SB5000TL-21

\*For full details see Solahart Owners Guide & Installation Instructions • Standard features ○ Optional features Data at nominal conditions

<sup>1</sup> Does not apply to all national appendices of EN50438 / <sup>2</sup> 4600 VA with VDE-AR-N-4105 / <sup>3</sup> 4825 W with VDE-AR-N 4105



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

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Reorder: SHB/PVINV-TL30/40/50 SOLA0161\_June 2014