



SOLAHART INVERTER 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.

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



Key Features

- Simple cable connection without tools
- Bluetooth® technology as standard
- Easily accessible connection area
- Transformerless

Key Benefits

- Maximum efficiency of 97%
- Optimum solar yield
- Safe – integrated ESS DC switch-disconnector
- 10 year warranty* for peace of mind

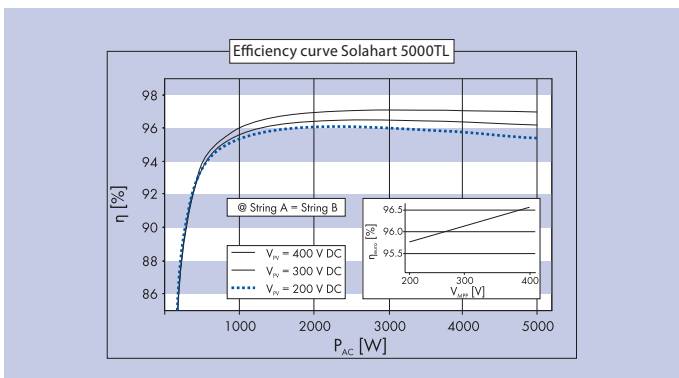
Technical data	Solahart 4000TL	Solahart 5000TL
Input (DC)		
Max. DC power (@ $\cos \phi = 1$)	4200 W	5300 W
Max. DC voltage	550 V	550 V
MPP voltage range	175 V - 440 V	175 V - 440 V
DC nominal voltage	400V	400 V
Min. DC voltage / start voltage	125 V/ 150 V	125 V / 150 V
Max. input current / per string	2 x 15 A / 15 A	2 x 15 A / 15 A
Number of MPP trackers / strings per MPP tracker	2/A:2, B:2	2 / A: 2, B: 2
Output (AC)		
AC nominal power (@ 230 V, 50 Hz)	4000 W	4600 W
Max. AC apparent power	4000 VA	5000 VA
Nominal AC voltage; range	220, 230, 240 V; 180 – 280 V	220, 230, 240 V; 180 – 280 V
AC grid frequency; range	50, 60 Hz; ± 5 Hz	50, 60 Hz; ± 5 Hz
Max. output current	22 A	22 A
Power factor ($\cos \phi$)	1	1
Phase conductors / connection phases	1 / 1	1 / 1
Efficiency		
Max. efficiency / Euro-eta	97.0 % / 96.4 %	97.0 % / 96.5 %
Protection devices		
DC reverse-polarity protection	•	•
ESS switch-disconnector	•	•
AC short circuit protection	•	•
Ground fault monitoring	•	•
Grid monitoring (SMA Grid Guard)	•	•
All-pole sensitive fault current monitoring unit	•	•
Protection class / overvoltage category	I / III	I / III
General data		
Dimensions (W / H / D) in mm	470 / 445 / 180	470 / 445 / 180
Weight	25 kg	25 kg
Operating temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C
Noise emission (typical)	≤ 29 dB(A)	≤ 29 dB(A)
Internal consumption (night)	< 0.5 W	< 0.5 W
Topology	transformerless	transformerless
Cooling concept	OptiCool	OptiCool
Electronics protection rating / connection area (as per IEC 60529)	IP65 / IP54	IP65 / IP54
Climatic category (per IEC 60721-3-4)	4K4H	4K4H
Features		
DC connection	Sunclix	Sunclix
AC connection	Spring-type terminal	Spring-type terminal
Display	Graphic	Graphic
Interfaces: Bluetooth® / RS485	• / ○	• / ○
Warranty	10 years*	10 years*
Certificates and permits (more available on request)	CE, VDE 0126-1-1, DK 5940, RD 1663, G83/1-1, PPC, AS4777, EN 50438 [^] , C10/C11, PPDS	

* For full details see Solahart Owners Guide & Installation Instructions

[^] Does not apply to all national deviations of EN 50438

• Standard features ○ Optional features

Data at nominal conditions



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

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