

SolarLake Series



SolarLake series PV grid tied inverters have two MPPT inputs and support a very wide range of input voltages. The range comprises 4 power levels from 10kW to 17kW and is optimised for the widest possible PV module configurations. The latest state of the art technology ensures SolarLake series inverters meet all the requirements for powering to the grid and are ideally suited for larger PV installations up to the MW range.

MODEL SolarLake 10000TL

MODEL SolarLake 12000TL

MODEL SolarLake 15000TL

MODEL SolarLake 17000TL

■ Features

State of the art technology

High efficiency – 98.2%

Dual MPPT inputs accommodating wide voltage range

Transformless - minimising size and weight

Flexibility

Use indoors or outside (IP 65)

Integrated grid management

Multi lingual display

Built to last

Stainless steel housing

Automatic protection including overvoltage, islanding, short circuit, overload

5 years warranty



Adapt To Any Weather



Technical Data

SolarLake Series 10-17KW

Inverter Model	SolarLake 10000TL	SolarLake 12000TL	SolarLake 15000TL	SolarLake 17000TL
Input (DC)				
Max. PV power [W]	11500	13800	17300	19600
Max. DC power [W]	10400	12500	15600	17700
Max. DC voltage [V]	1000	1000	1000	1000
Max. input current [A]	A: 16 / B:16	A: 16 / B:16	A:20 / B:20	A:20 / B:20
Number of MPP trackers / strings per MPP tracker	2 / 2	2 / 2	2 / 2	2 / 2
MPPT voltage range (at rated power) [V]	320~800	380~800	380~800	430~800
Shutdown voltage / Start voltage [V]	200 / 250	200 / 250	200 / 250	200 / 250
Output (AC)				
AC nominal power [W]	10000	12000	15000	17000
Max. AC power [W]	10000	12000	15000	17000
Max. AC current [A]	16	19.2	24	25
Nominal AC voltage [V]	3 / N / PE,230 / 400	3 / N / PE,230 / 400	3 / N / PE,230 / 400	3 / N / PE,230 / 400
AC grid frequency / range [Hz]	50	50	50	50
Power factor (cosφ), adjustable	0.9 leading ... 0.9 lagging	0.9 leading ... 0.9 lagging	0.9 leading ... 0.9 lagging	0.9 leading ... 0.9 lagging
Total harmonic distortion (THDi) (at nominal power)	<3%	<3%	<3%	<3%
Efficiency				
Max. Efficiency	98.0%	98.0%	98.2%	98.1%
Euro-efficiency	97.6%	97.6%	97.7%	97.6%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%
General data				
Dimensions(W / H / D) [mm]	520 / 756 / 230	520 / 756 / 230	520 / 756 / 230	520 / 756 / 230
Weight [kg]	50	50	50	50
Operating temperature range [°C]	-20~+60 (derating at 45°C)	-20~+60 (derating at 45°C)	-20~+60 (derating at 45°C)	-20~+60 (derating at 45°C)
Ingress protection	IP65	IP65	IP65	IP65
Topology	Transformerless	Transformerless	Transformerless	Transformerless
Internal consumption(night) [W]	<5	<5	<5	<5
Cooling concept	Fan	Fan	Fan	Fan
Noise (typical) [dB]	<56	<56	<56	<56
Display	3.5 inch, TFT-LCD	3.5 inch, TFT-LCD	3.5 inch, TFT-LCD	3.5 inch, TFT-LCD
Communication port	RS485(standard); RS232/USB/ Ethernet / CAN	RS485(standard); RS232/USB/ Ethernet / CAN	RS485(standard); RS232/USB/ Ethernet / CAN	RS485(standard); RS232/USB/ Ethernet / CAN
Standard warranty [year]	5	5	5	5
Grid management	Yes	Yes	Yes	Yes
DC switch	Integrated	Integrated	Integrated	Integrated
Inverter Model	SolarLake 10000TL	SolarLake 12000TL	SolarLake 15000TL	SolarLake 17000TL



English