

SolarLake Series Inverter (Technical data)

Inverter Model	SL10KTLA1	SL12KTLA1	SL15KTLA1	SL17KTLA1
Input (DC)				
Max. DC power [W]	11500	13500	15800	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
Rated output current [A]	15	18	22	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)
Degree of 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 interface	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
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