SAMIL POWER
Expert for PV Grid-tied Inverters



SolarLake
10000 / 12000 / 15000 / 17000TL

SIMPLE. FLEXIBLE.

- Simplified system design due to dual MPPT and wide input voltage range up to 1,000 V
- Free site selection due to IP65
- Parameter and country code setting during initial start up

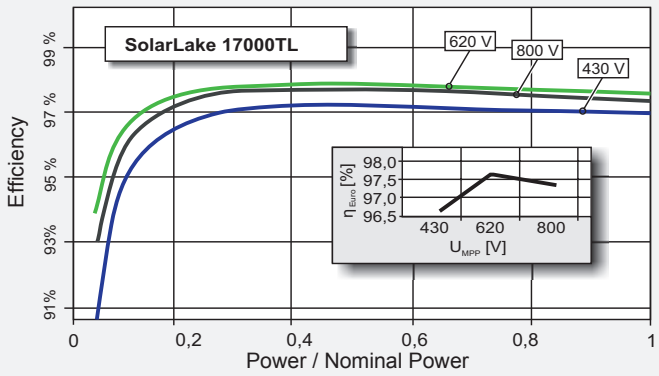
OPEN. INTERACTIVE.

- Interface selection – Ethernet and RS485 for more flexible configuration and system monitoring
- Multi-lingual 3.5“ TFT LCD display
- Easy key pad operation

SECURE. EFFICIENT.

- Highest earnings through max. efficiency of > 98%
- Safe operation due to integrated DC-switch
- 10 year standard guarantee

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	SolarLake 10000TL	SolarLake 12000TL	SolarLake 15000TL	SolarLake 17000TL
Input (DC)				
Max. DC power (@cosφ=1) total / per MPP input	10500 W / 8000 W	12500 W / 8000 W	15600 W / 10000 W	17700 W / 10000 W
Max. input voltage	1000 V			
MPP voltage range / rated input voltage	320 V - 800 V / 620 V	380 V - 800 V / 620 V		430 V - 800 V / 620 V
Min. input voltage / initial input voltage	200 V / 250 V			
Max. input current input A / input B	16 A / 16 A		20 A / 20 A	
Max. input current per string input A / input B	16 A / 16 A		20 A / 20 A	
Number of independent MPP inputs / strings per MPP input	2 / 2			
Output (AC)				
Rated power (@ 230 V / 50 Hz)	10000 W	12000 W	15000 W	17000 W
Max. apparent AC power	10000 VA	12000 VA	15000 VA	17000 VA
Nominal AC voltage / range	3 / N / PE, 230 V, 400 V / 180 V - 277 V per phase			
AC frequency / range	50 Hz, 60 Hz / 44 Hz - 55 Hz, 54 Hz - 65 Hz			
Rated grid voltage / rated grid frequency	230 V / 50 Hz			
Max. output current	16 A	19.2 A	24 A	25 A
Power factor at rated power	1			
Displacement power factor, adjustable	0.9 leading - 0.9 lagging			
Feed-in phases / connection phases	3 / 3			
Efficiency				
Max. Efficiency / European weighted efficiency	97.9 % / 97.4 %		98 % / 97.6 %	
Protective devices				
DC disconnect device / AC disconnect device	● / -			
Ground fault monitoring / grid monitoring	● / ●			
DC reverse polarity protection / AC short-circuit current capability	● / ●			
Galvanic isolation	-			
All-pole-sensitive residual-current monitoring	●			
Protection class (according to IEC 62103) / Overvoltage category (according to IEC 60664-1)	I / II (DC), III (AC)			
General data				
Dimensions (W / H / D)	520 / 716 / 230 mm			
Weight	50 kg			
Operating temperature range	-25 °C … +60 °C			
Noise emission (typical)	< 47 dB			
Self-consumption (night)	< 5 W			
Topology	Transformerless			
Cooling concept	Fan			
Degree of protection (according to IEC 60529)	IP65			
Maximum humidity (non-condensing)	95 %			
Features				
DC connection / AC connection	Multi-Contact MC4, Amphenol MC4 / Screw terminal			
Display	3.5" TFT LCD			
Interface: RS485 / Wi-Fi / Ethernet	● / - / ●			
Multi-function relay / digital input	- / -			
Guarantee: 10 / 15 / 20 / 25 years	● / ○ / ○ / ○			
Certificates and approvals (additional on request)	CE, TUV, BDEW, VDE 0126-1-1, RD 1699, G59/2, EN 61000-3-11/12, EN 6100-6-1/2/3/4, IEC 62109-1/2, VDE AR-N4105, CEI 0-21, CEI 0-16, AS 4777.2/3, AS 3100:2009, C10/11, EN 50438, UTE C15-712-1, IEC 62116, IEC 61727			

● Standard features ○ Optional features — Not available

Technical changes reserved

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