



SolarLake-PM

12000 / 15000 / 17000 / 20000 / 25000 / 30000TL-PM

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. CONVERSATIONAL.

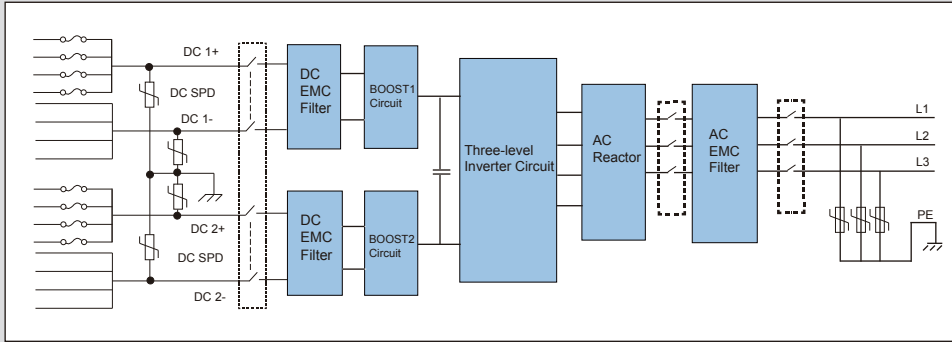
- Interface selection – Ethernet and RS485 for more flexible configuration and system monitoring
- Multi-lingual 3.5" TFT LCD display
- Easy key pad operation
- Digital inputs for the economic connection of a ripple control receiver
- Configurable multi-function relay output

SECURE. EFFICIENT.

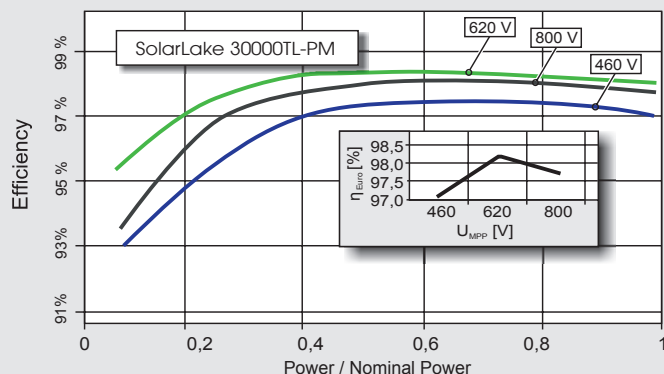
- Highest earnings through max. efficiency up to 98.2%
- Safe operation due to integrated AC / DC switch and AC / DC overvoltage protection
- Reduction of balance of system cost (BOS) due to integrated string combiner functionality

RELIABLE . ECONOMICAL.

- Sturdy design due to High Accelerated Life Testing(HALT) and Rigorous Multiple Environmental Over Stress Testing(MEOST)
- Electrolyte-free design to guard against dried cap issue and help to improve long term reliability
- Designed and qualified for applications in tropical environments through salt fog testing and use of conformal coating
- Defeating shade effect by Global Peak Tracker



	SolarLake 12000TL-PM	SolarLake 15000TL-PM	SolarLake 17000TL-PM	SolarLake 20000TL-PM
Input (DC)				
Max. DC power (@cosφ=1) total / per MPP input	12500 W / 6800 W	15800 W / 8400 W	17900 W / 9450 W	21000 W / 11000 W
Max. input voltage	1000 V			
MPP voltage range / rated input voltage	400 V - 850 V / 620 V		440 V - 850 V / 620 V	
Min. input voltage / initial input voltage	250 V / 300 V			
Max. input current input A / input B	21 A / 21 A			24 A / 24 A
Max. input current per string input A / input B	11.5 A / 11.5 A			
Number of independent MPP inputs / strings per MPP input	2/1 (without String Monitoring Unit) 2/3 (with String Monitoring Unit)			
Output (AC)				
Rated power (@ 230 V / 50 Hz)	12000 W	15000 W	17000 W	20000 W
Max. apparent AC power	12000 VA	15000 VA	17000 VA	20000 VA
Nominal AC voltage / range	3 / N / PE, 230 V, 400 V / 180 V - 277 V			
AC frequency	50 Hz / 60 Hz			
Rated grid voltage / rated grid frequency	230 V / 50 Hz			
Max. output current per phase	18 A	22 A	25 A	29 A
Power factor at rated power	1			
Displacement power factor, adjustable	0.8 leading - 0.8 lagging			
Feed-in phases / connection phases	3 / 3			
THDi (at rated power)	< 3%			
Efficiency				
Max. Efficiency / European weighted efficiency	98.2 % / 97.5 %			
Protective devices				
DC disconnect device / AC disconnect device	● / ○			
Surge arrester Type II DC / AC	○ / ○			
String monitoring unit	○			
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)	530 / 760 / 210 mm			
Weight	42 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	Direct connection into inverter terminal (without String Monitoring Unit) MC4, H4, SUNCLIX (with String Monitoring Unit)			
AC connection	Screw terminal			
Display	3.5" TFT LCD			
Interface: RS485 / Wi-Fi / Ethernet	● / - / ●			
Multi-function relay / digital input	3 / 4			
Guarantee: 5 / 10 / 15 / 20 years	● / ○ / ○ / ○			
Certificates and approvals (additional on request)	CE, BDEW, VDE 0126-1-1, G59/2, EN 61000-3-11/12, EN 61000-6-1/2/3/4, 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				



	SolarLake 25000TL-PM	SolarLake 30000TL-PM
Input (DC)		
Max. DC power (@cosφ=1) total / per MPP input	26300 W / 13200 W	32000 W / 16100 W
Max. input voltage	1000 V	
MPP voltage range / rated input voltage	440 V - 800 V / 620 V	460 V - 800 V / 620 V
Min. input voltage / initial input voltage	250 V / 350 V	
Max. input current input A / input B	30 A / 30 A	35 A / 35 A
Max. input current per string input A / input B	11.5 A / 11.5 A	
Number of independent MPP inputs / strings per MPP input	2/1 (without String Monitoring Unit) 2/4 (with String Monitoring Unit)	
Output (AC)		
Rated power (@ 230 V / 50 Hz)	25000 W	30000 W
Max. apparent AC power	25000 VA	30000 VA
Nominal AC voltage / range	3 / N / PE, 230 V, 400 V / 180 V - 277 V	
AC frequency	50 Hz / 60 Hz	
Rated grid voltage / rated grid frequency	230 V / 50 Hz	
Max. output current per phase	36.5 A	43.5 A
Power factor at rated power	1	
Displacement power factor, adjustable	0.8 leading - 0.8 lagging	
Feed-in phases / connection phases	3 / 3	
THDi (at rated power)	< 3%	
Efficiency		
Max. Efficiency / European weighted efficiency	98.3 % / 97.8 %	98.4 % / 97.8 %
Protective devices		
DC disconnect device / AC disconnect device	● / ○	
Surge arrester Type II DC / AC	○ / ○	
String monitoring unit	○	
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)	600 / 880 / 249 mm	
Weight	59 kg	
Operating temperature range	-25 °C ... +60 °C	
Noise emission (typical)	< 57 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	Direct connection into inverter terminal (without String Monitoring Unit) MC4, H4, SUNCLIX (with String Monitoring Unit)	
AC connection	Screw terminal	
Display	3.5" TFT LCD	
Interface: RS485 / Wi-Fi / Ethernet	● / - / ●	
Multi-function relay / digital input	3 / 4	
Guarantee: 5 / 10 / 15 / 20 years	● / ○ / ○ / ○	
Certificates and approvals (additional on request)	CE, BDEW, VDE 0126-1-1, G59/2, EN 61000-3-11/12, EN 61000-6-1/2/3/4, 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		

