

## SolarLake

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

#### SIMPLE. FLEXIBLE.

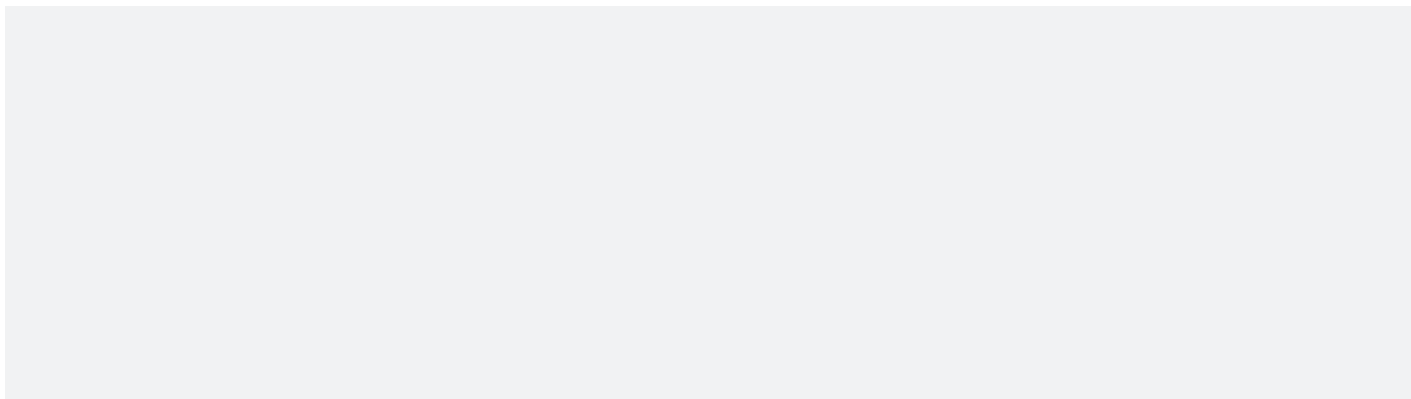
- Simplified system design due to dual MPPT and wide input voltage range up to 1,000 V
- Free site selection due to IP65
- Parameter and country code setting during initial start up

#### OPEN. INTERACTIVE.

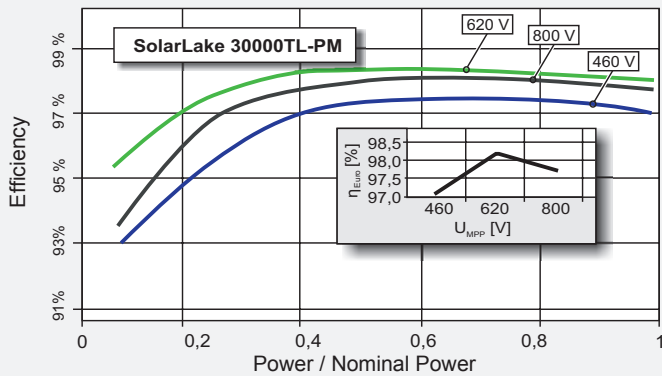
- Interface selection – Ethernet and RS485 for more flexible configuration and system monitoring
- Multi-lingual 3.5" TFT LCD display
- Easy key pad operation
- Digital inputs for the economic connection of a ripple control receiver
- Configurable multi-function relay output

#### SECURE. EFFICIENT.

- Highest earnings through max. efficiency of > 98%
- 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
- 10 year standard guarantee



	SolarLake 12000TL-PM	SolarLake 15000TL-PM	SolarLake 17000TL-PM
<b>Input (DC)</b>			
Max. DC power (@cosφ=1) total / per MPP input	12500 W / 6800 W	15800 W / 8400 W	17900 W / 9450 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		
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 / 3		
<b>Output (AC)</b>			
Rated power (@ 230 V / 50 Hz)	12000 W	15000 W	17000 W
Max. apparent AC power	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 / 45 Hz - 55 Hz, 54 Hz - 66 Hz		
Rated grid voltage / rated grid frequency	230 V / 50 Hz		
Max. output current	22 A		25 A
Power factor at rated power	1		
Displacement power factor, adjustable	0.8 leading - 0.8 lagging		
Feed-in phases / connection phases	3 / 3		
<b>Efficiency</b>			
Max. Efficiency / European weighted efficiency	98.2 % / 97.5 %		
<b>Protective devices</b>			
DC disconnect device / AC disconnect device	○ / ○ ( EU: ● / ○ )		
Surge arrester Type II DC / AC	○ / ○		
String monitoring unit / string fuses	○ / ○		
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)		
<b>General data</b>			
Dimensions (W / H / D)	530 / 740 / 210 mm		
Weight	40 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 %		
<b>Features</b>			
DC connection / AC connection	Multi-Contact MC4, Amphenol MC4, Screw terminal / Screw terminal		
Display	3.5" TFT LCD		
Interface: RS485 / Wi-Fi / Ethernet	● / - / ●		
Multi-function relay / digital input	3 / 6		
Guarantee: 10 / 15 / 20 / 25 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		



	SolarLake 20000TL-PM	SolarLake 25000TL-PM	SolarLake 30000TL-PM
<b>Input (DC)</b>			
Max. DC power (@cosφ=1) total / per MPP input	21000 W / 11000 W	26300 W / 13200 W	32000 W / 16100 W
Max. input voltage	1000 V		
MPP voltage range / rated input voltage	440 V - 850 V / 620 V	440 V - 800 V / 620 V	460 V - 800 V / 620 V
Min. input voltage / initial input voltage	250 V / 300 V	250 V / 350 V	
Max. input current input A / input B	24 A / 24 A	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 / 3	2 / 4	
<b>Output (AC)</b>			
Rated power (@ 230 V / 50 Hz)	20000 W	25000 W	30000 W
Max. apparent AC power	20000 VA	25000 VA	30000 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 / 45 Hz - 55 Hz, 54 Hz - 66 Hz		
Rated grid voltage / rated grid frequency	230 V / 50 Hz		
Max. output current	29 A	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		
<b>Efficiency</b>			
Max. Efficiency / European weighted efficiency	98.2 % / 97.5 %	98.3 % / 97.8 %	98.4 % / 97.8 %
<b>Protective devices</b>			
DC disconnect device / AC disconnect device	○ / ○ ( EU: ● / ○ )		
Surge arrester Type II DC / AC	○ / ○		
String monitoring unit / string fuses	○ / ○		
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)		
<b>General data</b>			
Dimensions (W / H / D)	530 / 740 / 210 mm	600 / 880 / 249 mm	
Weight	40 kg	63 kg	
Operating temperature range	-25 °C ... +60 °C		
Noise emission (typical)	< 47 dB	< 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 %		
<b>Features</b>			
DC connection / AC connection	Multi-Contact MC4, Amphenol MC4, Screw terminal / Screw terminal		
Display	3.5" TFT LCD		
Interface: RS485 / Wi-Fi / Ethernet	● / - / ●		
Multi-function relay / digital input	3 / 6		
Guarantee: 10 / 15 / 20 / 25 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		



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