

PV Grid-tied Inverter (Three phase)

SolarLake 10000TL/12000TL/15000TL/17000TL

LEADING-EDGE TECHNOLOGY

- DC input voltage up to 1000V
- Dual MPPT inputs accommodating wide voltage range
- Transformerless - minimizing size and weight
- Max. efficiency 98%

FLEXIBILITY

- Use for indoor and outdoor (IP65)
- “Plug and Play” connection for easy installation and maintenance
- Multi-lingual display
- Easy configuration for different country grid standards

BUILT TO LAST

- Automatic protection against over/under voltage, over/under load, islanding, short circuit
- 5 years standard warranty, up to 25 years warranty extension

CERTIFICATES

- CE, TUV, BDEW, VDE 0126-1-1, RD 1663, G59, DK5940, EN50178, EN61000-3-2, EN6100-6-1/2/3/4, IEC-62109, VDE AR-N-4105, CEI 0-21, CEI 0-16, AS4777, ABNT CB-03, NRS097

SAMIL POWER™
Expert for PV Grid-tied Inverters

Datasheet of SolarLake Series

Inverter model	SolarLake 10000TL	SolarLake 12000TL	SolarLake 15000TL	SolarLake 17000TL
Input (DC)				
Max. DC power [W]	10400	12500	15600	17700
Max. DC voltage [V]	1000			
Max. input current [A]	A:16/B:16	A:16/B:16	A:20/B:20	A:20/B:20
Feed-in start voltage [V]	250			
Operating voltage range [V]	200-950			
MPPT voltage range (full load) [V]	320-800	380-800	380-800	430-800
Numbers of MPPT	2			
Strings per MPPT	2			
DC switch	Optional			
Output (AC)				
Rated AC power [W]	10000	12000	15000	17000
Max. AC power [W]	10000	12000	15000	17000
Max. AC current [A]	16	19.2	24	25
Rated AC voltage/range [V]	3/N/PE, 230/400			
Rated AC frequency/range [Hz]	50/47-52			
Power Factor (cos ϕ)	0.9 lagging-0.9 leading			
THDi (at rated power)	<3%			
Efficiency				
Max. efficiency	97.9%	97.9%	98.0%	98.0%
Euro efficiency	97.4%	97.4%	97.6%	97.6%
MPPT efficiency	99.9%			
General Data				
Dimensions (WxHxD) [mm/in]	520x716x230/20.4x28.2x9.1			
Weight [kg/lb]	50/110			
Operating temperature range [°C/°F]	-20~+60/-4~140			
Cooling	Fan			
Ingress protection (IP)	IP65			
Display	3.5 inch LCD			
Communication	RS485 (standard)/RS232 (standard)/Ethernet (standard)			
Warranty (5/10/15/20/25 years)	standard/optional/optional/optional/optional			
Certificates	CE, TUV, BDEW, VDE 0126-1-1, RD 1663, G59, DK5940, EN50178, EN61000-3-2, EN6100-6-1/2/3/4, IEC-62109, VDE AR-N-4105, CEI 0-21, CEI 0-16, AS4777, ABNT CB-03, NRS097			