



# 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

# Datasheet of SolarLake Series

| Inverter model                      | SolarLake 10000TL   | SolarLake 12000TL | SolarLake 15000TL | SolarLake 17000TL |
|-------------------------------------|---|-------------------|-------------------|-------------------|
| <b>Input (DC)</b>                   |   |                   |                   |                   |
| 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  |                   |                   |                   |
| <b>Output (AC)</b>                  |   |                   |                   |                   |
| 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 $\phi$ )          | 0.9 lagging-0.9 leading   |                   |                   |                   |
| THDi (at rated power)               | <3%   |                   |                   |                   |
| <b>Efficiency</b>                   |   |                   |                   |                   |
| Max. efficiency                     | 97.9%   | 97.9%             | 98.0%             | 98.0%             |
| Euro efficiency                     | 97.4%   | 97.4%             | 97.6%             | 97.6%             |
| MPPT efficiency                     | 99.9%   |                   |                   |                   |
| <b>General Data</b>                 |   |                   |                   |                   |
| 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 |                   |                   |                   |



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