

Three-Phase String Inverters 15 kW to 20 kW

> Residential, Commercial, Solar Inverters



Eversol TLC Series TLC15K/17K/20K

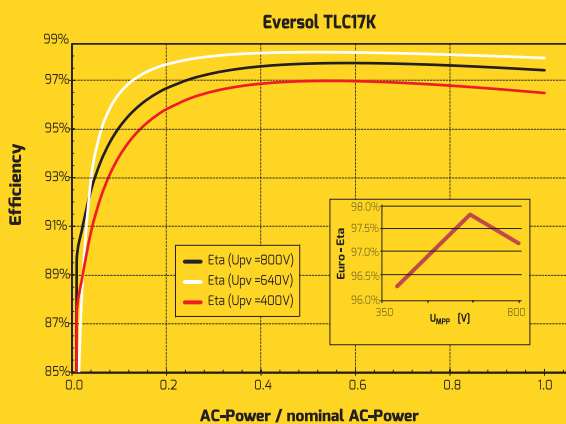
Introduction

We believe that the world would be a better place if everybody had easy access to the cleanest energy. By creating simple, easy to use, affordable and reliable inverters we are revolutionizing access to solar power for businesses and large scale PV developers. Ideal for small commercial scale PV plants, our Eversol TLC three phase inverter.

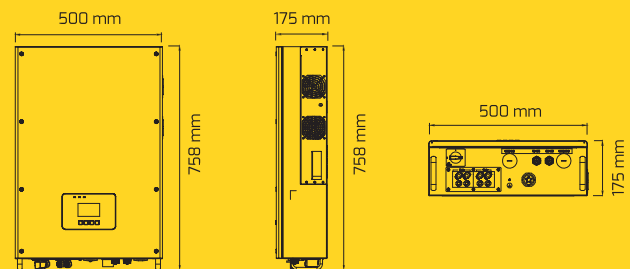
Features

- Efficiency 98.3%
- Max. input voltage 1000V
- Graphical display
- Multiple Maximum Powerpoint Tracking
- IP65 protection class
- RS485 and Modbus RTU communications
- Grid management functions via ZeverCom, ZeverCom WiFi or ZeverManager
- Easy handling for installation and maintenance

Conversion efficiency



Dimensions



Three-Phase String Inverters 15 kW to 20 kW

| Technical data | Eversol TLC15K | Eversol TLC17K | Eversol TLC20K |
|---|--------------------------------------|----------------|----------------|
| Input (DC) | | | |
| DC convertible power (@cosφ=1) | 17250W | 19520W | 21000W |
| Max. input voltage | 1000V | | |
| MPP voltage range / rated input voltage | 270-950V / 640V | | |
| Min. start voltage | 250V | | |
| Min. feed-in power | 12W | | |
| Max. input current per MPPT | 22A / 22A | | |
| Number of MPPTs | 2 | | |
| Number of independent MPP inputs | 2 / 2 | | |
| Output (AC) | | | |
| Rated active power | 15000W | 17000W | 20000W |
| Max. apparent AC power | 16500VA | 18700VA | 20000VA |
| Nominal AC voltage | 3/N/PE, 220/380V, 230/400V, 240/415V | | |
| Nominal AC voltage range (line to line) | 277-520V | | |
| AC power frequency / range | 50,60 / +-5Hz | | |
| Rated power frequency / rated grid voltage | 50Hz / 230V | | |
| Max. output current | 3 x 24A | 3 x 25.8A | 3 x 30A |
| Power factor (@rated power) | > 0.99 | | |
| Adjustable displacement power factor | 0.85 inductive ... 0.85 capacitive | | |
| Feed-in phases / connection phases | 3 / 3 | | |
| Harmonic distortion (THD) at rated output | < 3% | | |
| Efficiency | | | |
| Max. efficiency / European weighted efficiency | 98.3% / 97.9% | | |
| MPPT efficiency | 99.50% | | |
| Protective devices | | | |
| DC isolator | ○ | | |
| PV iso / Grid monitoring | ● / ● | | |
| DC reverse polarity protection / AC short-circuit current capability | ● / ● | | |
| GFCI function | ● | | |
| Protection class (according to IEC 62103) / overvoltage category (according to IEC 60664-1) | I / II (DC), III (AC) | | |
| General data | | | |
| Interfaces: RS485 / RS485 ¹⁾ & Ethernet & WIFI & a.RJ45 ²⁾ (DRED) | ● / - | | |
| Earth Fault Alarm ³⁾ | cloud based, audible and visible | | |
| Display | graphical LCD | | |
| Dimensions (W x H x D) | 500 x 758 x 175mm | | |
| Weight | 43kg | | |
| Cooling concept | fan cooling | | |
| Noise emission (typical) | < 60 dB(A)@1m | | |
| Installation | indoor & outdoor | | |
| Mounting information | wall mounting bracket | | |
| DC connection technology | SUNCLIX | | |
| AC connection technology | plug-in | | |
| Operating temperature range | -25°C...+60°C / -13°F...+140°F | | |
| Relative humidity (non-condensing) | 0% ... 100% | | |
| Max. operating altitude | 2000m | | |
| Degree of protection (according to IEC 60529) | IP55 (fans), IP65 (others) | | |
| Climatic category (according to IEC 60721-3-4) | 4K4H | | |
| Topology | transformerless | | |
| Self-consumption (night) | < 1W | | |
| Standby power | < 12W | | |

● standard ○ optional - not available

1) For connection to approved smart meters in zero export installations

2) Analog RJ45 interface to DRED in Australia & New Zealand

3) Selectable in ZeverCloud; audible alarm will only be activated in AS4777 setting

As of August, 2016 / Technical data is subject to revisions.