

Three-Phase String Inverters 4 kW to 10 kW

> Residential, Commercial, Solar Inverters



Evershine TLC Series TLC4000/5000/6000/8000/10000

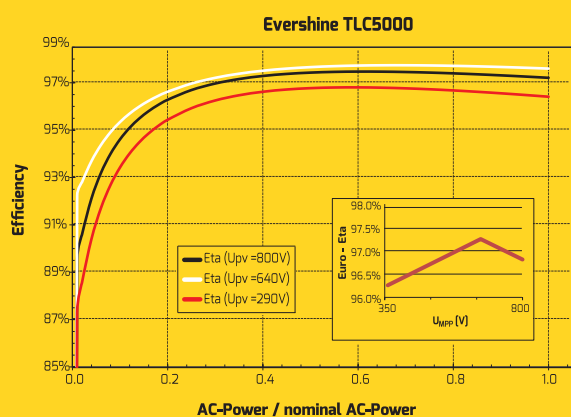
Introduction

We believe that the world would be a better place if everybody had easy access to the cleanest energy from the roof of their homes and businesses. By creating simple, easy to use, affordable and reliable inverters we are revolutionizing access to solar power and delivering financial savings to your home or business. Ideal for large residential or small commercial applications, our Evershine TLC three phase inverter.

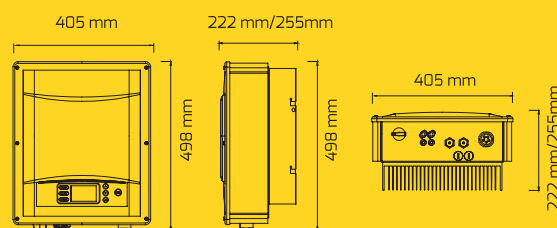
Features

- Efficiency 98%
- Max. input voltage 1000V
- Graphical display
- Multiple Maximum Powerpoint Tracking
- IP65 protection class
- RS485 communications
- Online web monitoring via ZeverCom, ZeverCom WiFi or ZeverManager
- Grid management functions via ZeverCom, ZeverCom WiFi or ZeverManager
- Easy handling for installation and maintenance

Conversion efficiency



Dimensions



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| Technical data | Evershine TLC4000 | Evershine TLC5000 | Evershine TLC6000 | Evershine TLC8000 | Evershine TLC10000 |
|---|---|----------------------|----------------------|--|-----------------------|
| Input (DC) | | | | | |
| DC convertible power (@cosφ=1) | 4650W | 5800W | 6300W | 9250W | 10500W |
| Max. input voltage | 1000V | | | 1000V | |
| MPP voltage range / rated input voltage | 200-900V / 640V | | | 200-900V / 640V | |
| Min. start voltage | 250V | | | 250V | |
| Min. feed-in power | 12W | | | 12W | |
| Max. input current per MPPT | 11A / 11A | | | 15A / 11A | 15A / 11A |
| Number of MPPTs | 2 | | | 2 | 2 |
| Number of independent MPP inputs | 1 / 1 | | | 2 / 1 | 2 / 1 |
| Output (AC) | | | | | |
| Rated active power | 4000W | 5000W | 6000W | 8000W | 10000W |
| Max. apparent AC power | 4400VA | 5500VA | 6000VA | 8800VA | 10000VA |
| Nominal AC voltage | 3/N/PE, 220/380V, 230/400V, 240/415V | | | | |
| Nominal AC voltage range (line to line) | 277-485V | | | 277-520V | 277-520V |
| AC power frequency / range | 50 / +-5Hz | | | 50 / +-5Hz | 50 / +-5Hz |
| Rated power frequency / rated grid voltage | 50Hz / 230V | | | 50Hz / 230V | |
| Max. output current | 3 x 6.8A | 3 x 8.5A | 3 x 9.2A | 3 x 13.3A | 3 x 15.1A |
| Power factor (@rated power) | > 0.99 | | | > 0.99 | |
| Adjustable displacement power factor | 0.85 inductive ... 0.85 capacitive | | | 0.85 inductive ... 0.85 capacitive | |
| Feed-in phases / connection phases | 3 / 3 | | | 3 / 3 | |
| Harmonic distortion (THD) at rated output | < 3% | | | < 3% | |
| Efficiency | | | | | |
| Max. efficiency / European weighted efficiency | 98% / 97.5% | | | 98.1% / 97.6% | |
| MPPT efficiency | 99.50% | | | 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) | | | I / II (DC), III (AC) | |
| General data | | | | | |
| Interfaces: RS485 / Ethernet / WIFI | ● / - / - | | | ● / - / - | |
| Display | graphical LCD | | | graphical LCD | |
| Dimensions (W x H x D) | 405 x 498 x 222mm | | | 405 x 498 x 255mm | |
| Weight | 20kg | | | 25kg | |
| Cooling concept | convection | | | convection | |
| Noise emission (typical) | < 40 dB(A)@1m | | | < 45 dB(A)@1m | |
| Installation | indoor & outdoor | | | indoor & outdoor | |
| Mounting information | wall mounting bracket | | | wall mounting bracket | |
| DC connection technology | SUNCLIX | | | SUNCLIX | |
| AC connection technology | plug-in | | | plug-in | |
| Operating temperature range | -25°C...+60°C / -13°F...+140°F | | | -25°C...+60°C / -13°F...+140°F | |
| Relative humidity (non-condensing) | 0% ... 100% | | | 0% ... 100% | |
| Max. operating altitude | 2000m | | | 2000m | |
| Degree of protection (according to IEC 60529) | IP65 | | | IP65 | |
| Climatic category (according to IEC 60721-3-4) | 4K4H | | | 4K4H | |
| Topology | transformerless | | | transformerless | |
| Self-consumption (night) | < 0.6W | | | < 0.6W | |
| Standby power | < 12W | | | < 12W | |
| Certificates and approvals (more available on request) | CE, IEC62109-1, IEC62109-2, VDE0126-1-1/A1:2012, VDE0126-1-1:2013, VDE-AR-N 4105, A5 4777.2, A5 4777.3, A5/NZS 3100, C10/11, NEN50438, G83/2, G59/3 | | | CE, IEC62109-1, IEC62109-2, VDE-AR-N 4105, G83/2, G59/3, NEN50438, A5 4777.2, A5 4777.3, A5/NZS 3100 | |

● standard ○ optional - not available

As of July, 2015 / Technical data is subject to revisions.