

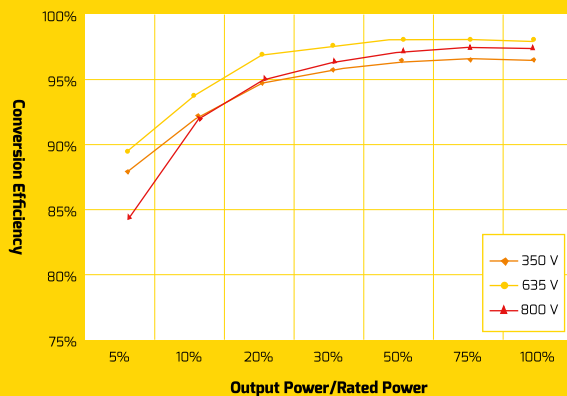
Three-Phase String Inverters 4 kW to 20 kW

We offer a range of eight three-phase string inverters for indoor and outdoor use with different maximum power capacities to cover the needs of residential and commercial use. All our inverters come with dual MPPT technology for increased efficiency of the entire photovoltaic system.

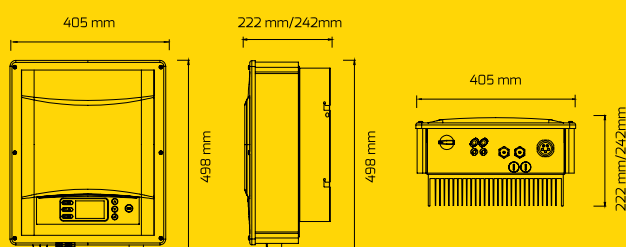
Evershine TLC Series



Conversion efficiency



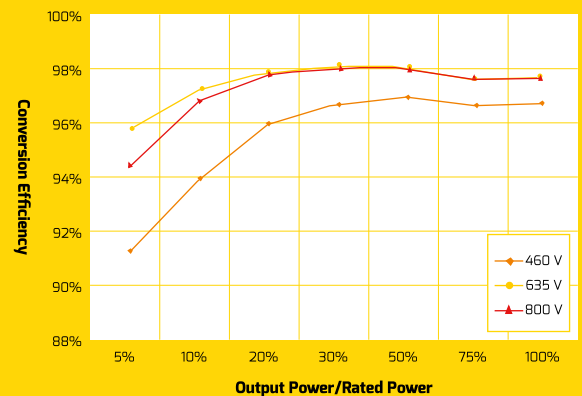
Technical data



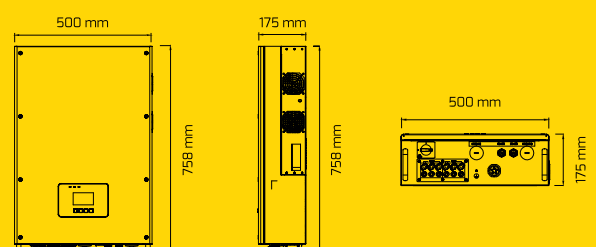
Eversol TLC Series



Conversion efficiency



Technical data



Three-Phase String Inverters 4 kW to 20 kW

| Technical data | Evershine TLC4000 | Evershine ^{**} TLC5000 | Evershine TLC6000 | Evershine ^{**} TLC8000 | Eversol ^{**} TLC10K | Eversol TLC15K | Eversol TLC17K | Eversol TLC20K |
|---|--|--|--|--|--|---|----------------|----------------|
| DC input data | | | | | | | | |
| Max. PV array power [W] | 4200 | 5200 | 6300 | 8400 | 10400 | 15600 | 17600 | 20800 |
| Max. DC voltage [V] | 900 | | 1000 | | 900 | | | |
| Rated input voltage [V] | 640 | | | | | | | |
| MPP voltage range [V] | 200-800 | | | 200-900 | | 270-800 | | |
| Full load MPP voltage range [V] | 235-800 | 290-800 | 350-800 | 380-800 | 300-800 | 340-800 | 390-800 | 450-800 |
| Switch-off DC voltage [V] | 180 | | | | 220 | | | |
| Start voltage [V] | 250 | | | | 300 | | | |
| Max. DC current (input A/input B) [A] | 9/9 | | | 11/11 | 22/11 | 22/22 | | |
| Number of MPP trackers | 2 | | | | | | | |
| Max. number of parallel inputs (A/B) | 1/1 | | | | 3/3 | | | |
| Switch-on power [W] | 12 | | | | | | | |
| Output data | | | | | | | | |
| Rated AC power [W] | 4000 | 5000 | 6000 | 8000 | 10000 | 15000 | 17000 | 20000 |
| Max. AC Power [VA] | 4000 | 5000 | 6000 | 8100 | 10000 | 15000 | 17000 | 20000 |
| Rated AC grid voltage [V]* | 3/N/PE220/380,230/400,240/415 | | | | | | | |
| Rated AC grid frequency [Hz]* | 50 | | | | 50/60 | | | |
| AC voltage range [V]* | 160-280 | | | | | | | |
| AC frequency range [Hz] | According to local codes | | | | | | | |
| Max. continuous output current [A] | 3 x 7 | 3 x 8.0 | 3 x 9.2 | 3 x 13.3 | 3 x 16 | 3 x 24 | 3 x 25.8 | 3 x 30 |
| Power factor | > 0.99 (0.85 inductive ... 0.85 capacitive) | | | | | | | |
| Harmonic distortion (THD) at rated output | < 3% | | | | | | | |
| Power consumption at night [W] | < 0.6 | | | | | | | |
| Power consumption at standby [W] | < 12 | | | | | | | |
| MPPT efficiency | | | | | | | | |
| MPPT adaptation efficiency | > 99.50 % | | | | | | | |
| Conversion efficiency | | | | | | | | |
| Max. efficiency | > 98.00% | | | | | | | |
| European weighted efficiency | 97.50% | | | | | | | |
| Safety equipment | | | | | | | | |
| DC insulation monitoring | Integrated | | | | | | | |
| Earth fault protection | Integrated | | | | | | | |
| Mains monitoring | Integrated | | | | | | | |
| Earth fault current monitoring | Integrated | | | | | | | |
| DC current monitoring | Integrated | | | | | | | |
| General data | | | | | | | | |
| Dimensions (WxHxD) [mm] | 405 x 498 x 222 | | | 405 x 498 x 242 | 500 x 758 x 175 | | | |
| Weight [kg] | 21.8 | | | <24 | 48 | | | |
| Installation environment | Indoor and outdoor | | | | | | | |
| Mounting information | Wall mounting bracket | | | | | | | |
| Operating temperature range | -25°C ... +60°C (derating in case of temperatures above 45°C) | | | | | | | |
| Relative humidity | 0% to 100%, no condensation | | | | | | | |
| IP protection type | IP65 as per EN60529 | | | | IP55 (fans), IP65 as per EN60529 (others) | | | |
| Insulation type | Transformerless | | | | | | | |
| Cooling concept | Convection | | | | Fan cooling | | | |
| Noise level | < 40 dB(A)@1m | | | | < 60 dB(A)@1m | | | |
| LCD display | LCD, 240 x 160 pixel | | | | | | | |
| Communication interface | RS485 | | | | | | | |
| Software updates interface | USB | | | | | | | |
| Certificates and approvals | IEC61000-6-2, IEC61000-6-3, IEC61000-3-2, IEC61000-3-3, IEC62109-1, IEC62109-2, VDE0126-1-1/A1:2012, VDE0126-1-1:2013, VDE-AR-N 4105, NEN50438, G83/2, EN50438 | IEC61000-6-2, IEC61000-6-3, IEC61000-3-2, IEC61000-3-3, IEC62109-1, IEC62109-2, VDE0126-1-1/A1:2012, VDE0126-1-1:2013, AS 4777.2, AS 4777.3, AS/NZS 3100 | IEC61000-6-2, IEC61000-6-3, IEC61000-3-2, IEC61000-3-3, IEC62109-1, IEC62109-2, VDE0126-1-1/A1:2012, VDE0126-1-1:2013, VDE-AR-N 4105, NEN50438, G83/2, EN50438 | IEC61000-6-2, IEC61000-6-3, IEC61000-3-2, IEC61000-3-3, IEC62109-1, IEC62109-2, VDE-AR-N 4105, AS 4777.2, AS 4777.3, AS/NZS 3100 | **IEC61000-6-2, IEC61000-6-3, IEC61000-3-2, IEC61000-3-3, IEC62109-1, IEC62109-2, VDE-AR-N 4105, VDE0126-1-1/A1:2012, VDE0126-1-1:2013 | IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, IEC62109-1, IEC62109-2, AS/NZS3100, VDE-AR-N 4105, VDE0126-1-1, AS4777.2, AS4777.3, C10/11, UTEC 15-712-1, NEN50438, G59/3, EN50438, BDEW 2008, CNCA/CTS0006, CNCA/CTS0004, PEA/MEA Guide | | |

* The data may vary depending on the local grid standards.

** Available during 2nd half of 2014. Please contact your local sales team for further information.