

Single-Phase String Inverters 3.68 kW to 5 kW

> Residential, Solar Inverters



Evershine TL Series TL3680/5000

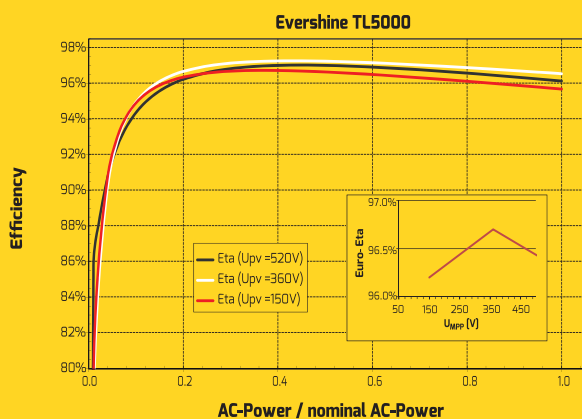
Introduction

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. By creating simple, easy to use, affordable and reliable inverters we are revolutionizing access to solar power and bringing energy to everybody. Ideal for large residential applications, our Evershine TL single phase inverter.

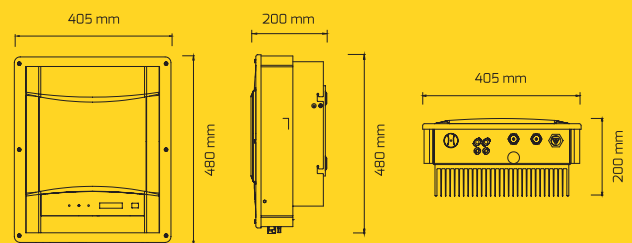
Features

- Efficiency 97.3%
- Multiple Maximum Powerpoint Tracking
- IP65 protection class
- RS485 communications
- Online web monitoring via ZeverCom & ZeverCom WiFi
- Grid management functions via ZeverCom & ZeverCom WiFi
- Easy handling for installation and maintenance

Conversion efficiency



Dimensions



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Technical data	Evershine TL3680	Evershine TL5000
Input (DC)		
DC convertible power (@cosφ=1)	3900W	5300W
Max. input voltage	600V	
MPP voltage range / rated input voltage	125-520V / 360V	
Min. start voltage	125V	
Min. feed-in power	10W	
Max. input current per MPPT	11A / 11A	
Number of MPPTs	2	
Number of independent MPP inputs	1 / 1	
Output (AC)		
Rated active power	3680W	5000W
Max. apparent AC power	3680VA	5000VA
Nominal AC voltage / range	220,230,240V / 180-280V	
AC power frequency / range	50,60 / +5Hz	
Rated power frequency / rated grid voltage	50Hz / 230V	
Max. output current	16A	22.8A
Power factor (@rated power)	1	
Adjustable displacement power factor	0.85 inductive ... 0.85 capacitive	
Feed-in phases / connection phases	1 / 1	
Harmonic distortion (THD) at rated output	< 3%	
Efficiency		
Max. efficiency / European weighted efficiency	97.1% / 96.2%	97.3% / 96.5%
MPPT efficiency	99.90%	99.90%
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	16 x 2 characters	
Dimensions (W x H x D)	405 x 480 x 200mm	
Weight	19.5kg	
Cooling concept	convection	
Noise emission (typical)	< 30 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)	IP65	
Climatic category (according to IEC 60721-3-4)	4K4H	
Topology	transformerless	
Self-consumption (night)	< 1W	
Standby power	6W	

● standard ◦ optional - not available

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

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 A54777 setting