

# Three-Phase String Inverters 4 kW to 10 kW

> Residential, Commercial, Solar Inverters



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

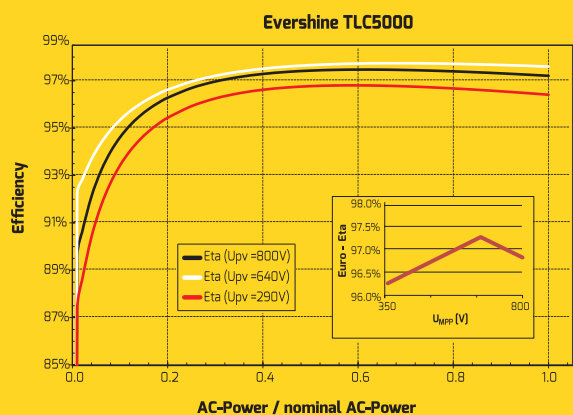
### Introduction

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.

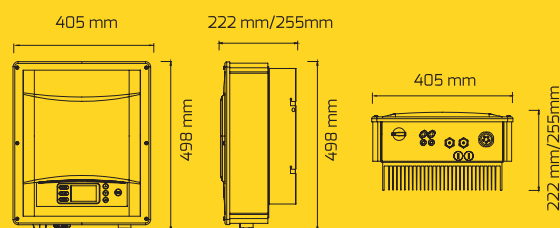
### Features

- Efficiency 98.1%
- Max. input voltage 1000V
- Graphical display
- Multiple Maximum Powerpoint Tracking
- IP65 protection class
- RS485 and Modbus RTU communications
- Optional integrated Ethernet and Wi-Fi communication
- Grid management functions via integrated ComBox, ZeverCom, ZeverCom Wi-Fi 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
<b>Input (DC)</b>					
Maximum PV array power (STC)	5280 Wp	6600 Wp	7200 Wp	10560 Wp	12000 Wp
Maximum DC power at $\cos \phi = 1$	4650 W	5800 W	6300 W	9250 W	10500 W
Max. input voltage	1000 V			1000 V	
MPP voltage range / rated input voltage	200-900 V / 640 V			200-900 V / 640 V	
Min. start voltage	250 V			250 V	
Min. feed-in power	25 W			25 W	
Max. input current per MPPT	11 A / 11 A			15 A / 11 A	15 A / 11 A
Number of MPPTs	2			2	2
Number of independent MPP inputs	1 / 1			2 / 1	2 / 1
<b>Output (AC)</b>					
Rated active power	4000 W	5000 W	6000 W	8000 W	10000 W
Max. apparent AC power	4400 VA	5500 VA	6000 VA	8800 VA	10000 VA
Nominal AC voltage	3/N/PE, 220/380V, 230/400V, 240/415V				
Nominal AC voltage range (line to line)	277-485 V			277-520 V	277-520 V
AC power frequency / range	50 / $\pm 5$ Hz			50 / $\pm 5$ Hz	50 / $\pm 5$ Hz
Rated power frequency / rated grid voltage	50 Hz / 230 V			50 Hz / 230 V	
Max. output current	3 x 6.8 A	3 x 8.5 A	3 x 9.2 A	3 x 13.3 A	3 x 15.1 A
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%	
<b>Efficiency</b>					
Max. efficiency / European weighted efficiency	98% / 97.5%			98.1% / 97.6%	
MPPT efficiency	99.50%			99.50%	
<b>Protective devices</b>					
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)	
<b>General data</b>					
Interfaces: RS485 / RS485 <sup>1)</sup> & Ethernet & Wi-Fi & a.RJ45 <sup>2)</sup> (DRED)	● / ○			● / ○	
Earth Fault Alarm <sup>3)</sup>	cloud based, audible and visible			cloud based, audible and visible	
Display	graphical LCD			graphical LCD	
Dimensions (W x H x D)	405 x 498 x 222 mm			405 x 498 x 255 mm	
Weight	21 kg			25 kg	
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	2000 m			2000 m	
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)	< 1 W			< 1 W	
Standby power	< 12 W			< 12 W	

● standard ○ optional - not available

1) 2-pin RS485 for connection to approved smart meters in zero export installations (replacing standard RS485 on RJ 45 connector)

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

3) Selectable in ZeverCloud; audible alarm will only be activated in A54777 setting

As of October, 2017 / Technical data is subject to revisions.