

# Three-Phase String Inverters 4 kW to 10 kW

> Residential, Commercial, Solar Inverters



## Evershine TLC Series

TLC 4000 / 5000 / 6000 / 8000 / 10000

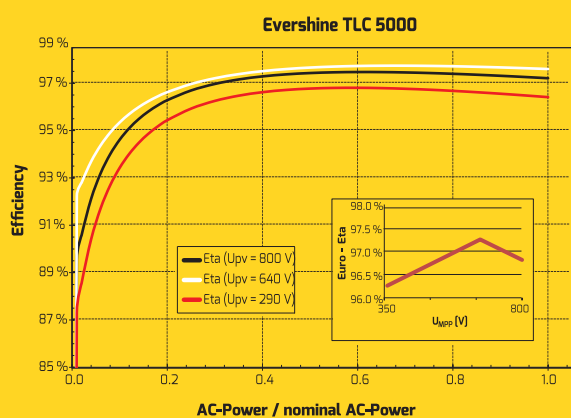
### Introduction

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.

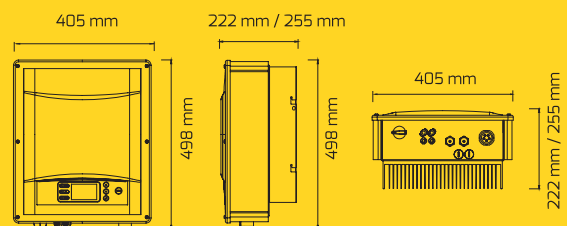
### Features

- Efficiency 98.1 %
- Max. input voltage 1000 V
- 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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# Three-Phase String Inverters 4 kW to 10 kW

Technical data	Evershine TLC 4000	Evershine TLC 5000	Evershine TLC 6000	Evershine TLC 8000	Evershine TLC 10000
<b>Input (DC)</b>					
Max. PV array power	5280 Wp STC	6600 Wp STC	7200 Wp STC	10560 Wp STC	12000 Wp STC
Max. input voltage	1000 V				
MPP voltage range / rated input voltage	200 V to 900 V / 640 V				
Min. input voltage	180 V				
Initial feed-in voltage	250 V				
Max. operating input current per MPPT input A / input B	11 A / 11 A	11 A / 11 A	11 A / 11 A	15 A / 11 A	15 A / 11 A
Max. short current per string input A / input B	16.5 A / 16.5 A	16.5 A / 16.5 A	16.5 A / 16.5 A	22.5 A / 16.5 A	22.5 A / 16.5 A
Number of independent MPPT inputs / strings per MPPT input	2 / A : 1; B : 1	2 / A : 1; B : 1	2 / A : 1; B : 1	2 / A : 1; B : 1	2 / A : 1; B : 1
<b>Output (AC)</b>					
Rated 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
AC nominal voltage	220 V / 380 V 230 V / 400 V 240 V / 415 V				
AC voltage range	160 V to 280V				
AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz				
Rated power frequency / rated grid voltage	50 Hz / 230 V				
Max. output current / rated output current	3 x 6.8 A / 3 x 5.8 A	3 x 8.5 A / 3 x 7.3 A	3 x 9.2 A / 3 x 8.7 A	3 x 13.3 A / 3 x 11.6 A	3 x 15.1 A / 3 x 14.5 A
Power factor at rated power / adjustable displacement power factor	1 / 0.8 overexcited to 0.8 underexcited				
Feed-in phases / AC connection	3 / 3-N-PE				
Harmonic distortion (THD) at rated output	< 3 %				
<b>Efficiency</b>					
AC grid frequency / range	98 % / 97.5 %	98 % / 97.5 %	98 % / 97.5 %	98.1 % / 97.6 %	98.1 % / 97.6 %
<b>Protective devices</b>					
Input-side disconnection device	•				
Ground fault monitoring / grid monitoring	• / •				
DC reverse polarity protection / AC short-circuit current capability	• / •				
All-pole sensitive residual-current monitoring unit	•				
Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	I / AC : III ; DC : II				
<b>General data</b>					
Dimensions (W / H / D)	405 / 498 / 222 mm	405 / 498 / 222 mm	405 / 498 / 222 mm	405 / 498 / 255 mm	405 / 498 / 255 mm
Weight	21 kg	21 kg	21 kg	25 kg	25 kg
Operating temperature range	-25 °C to +60 °C	-25 °C to +60 °C	-25 °C to +60 °C	-25 °C to +60 °C	-25 °C to +60 °C
Noise emission (typical)	< 40 dB(A)	< 40 dB(A)	< 40 dB(A)	< 45 dB(A)	< 45 dB(A)
Self-consumption (at night)	< 1 W				
Topology	Transformerless				
Cooling concept	Convection				
Degree of protection (according to IEC 60529)	IP65				
Climatic category (according to IEC 60721-3-4)	4K4H				
Max. permissible value for relative humidity (non-condensing)	100 %				
Max. operating altitude	2000 m				
<b>Features</b>					
DC connection	SUNCLIX				
AC connection	Plug-in connector				
Mounting type	Wall mounting bracket				
Display	Graphical LCD				
LED Indicators (Status / Fault / Communication)	•				
Interface: RS485 / WLAN & Ethernet <sup>1) &amp; 2)</sup>	○ / ○				
Certificates and approvals (more available on request)	CE, EN50438, G83/2, G59/3, VDE-4105, VDE-0126, AS/NZS 4777, C10/C11, VFR 2014 & UTE C15, TOR D4 V2.2, PPC, IEC62109, IEC62116, IEC61727, IEC61683, IEC60068			CE, EN50438, G83/2, G59/3, TR 3.2.2., VDE-4105, VDE-0126, AS/NZS 4777, C10/C11, VFR 2014 & UTE C15, TOR D4 V2.2, CN515382IEC62109, IEC62116, IEC61727, IEC61683, IEC60068	
Type designation	Evershine TLC 4000	Evershine TLC 5000	Evershine TLC 6000	Evershine TLC 8000	Evershine TLC 10000

• standard ○ optional - not available

As of December, 2018 / Technical data is subject to revisions.

1) Zero export installations supported with 2-pin RS485 for connection to approved smart meters

2) DRED supported with analog RJ45 interface for Australia & New Zealand