Three-Phase String Inverters 4 kW to 10 kW

> Residential, Commercial, Solar Inverters

Evershine TLC Series

TLC4000/5000/6000/8000/10000

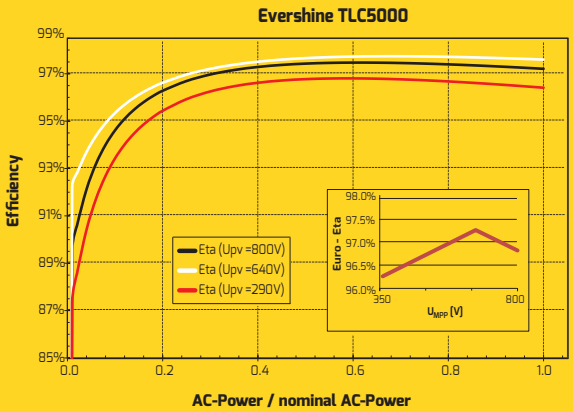
Introduction

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 with simple feed in power and monitoring functions and multiple maximum power point tracking takes the revolution from the streets to the rooftop of your home or business.

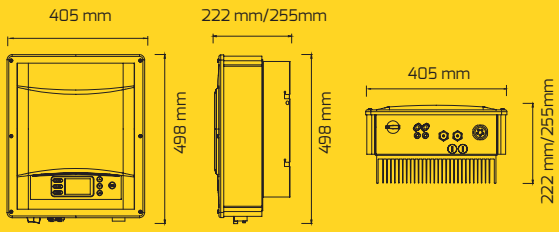
Features

- Efficiency 98%
- Max. Input Voltage 1000V
- Graphical display
- Multiple Maximum Powerpoint Tracking
- IP65 Protection Class
- RS485 communications
  Online web monitoring via our PMU residential or commercial
- Grid Management Functions via our PMU residential or commercial
- Easy handling for installation and maintenance

Conversion efficiency



Technical data



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zeversolar

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Technical data	Evershine TLC4000	Evershine TLC5000	Evershine TLC6000	Evershine TLC8000	Evershine TLC10000
Input (DC)					
Recommended max. PV array power (@cos=1)[1]	5800W	7200W	8800W	11400W	14200W
DC Convertible power (@cos=1)	4200W	5200W	6300W	8200W	10200W
Suggested PV power ratio[1]	80-140%			80-140%	
Max. Input Voltage	1000V[3]			1000V	
MPP Voltage range/rated input voltage	200-800V/640V			200-900V/640V	
Min. Start voltage	250V			250V	
Min. Feed-in power	12W			12W	
Max. Input current per MPPT	11A/11A[4]			15A/11A	15A/11A
Number of MPPTs	2			2	2
Number of independent MPP inputs	A:1,B:1			A:2,B:1	A:2,B:1
Output (AC)					
Rated active power	4000W	5000W	6000W	8000W	10000W
Max. Apparent AC power	4000VA	5000VA	6000VA	8800VA	10000VA
Nominal AC voltage	3/N/PE220/380V, 230/400V, 240/415V				
Nominal AC voltage range	160-280V			160-280V	160-300V
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 7A	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[2]	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%/97.5%	
MPPT Efficiency	99.50%			99.50%	
Protective devices					
DC Isolator	Optional			Optional	
PV Iso/Grid monitoring	Yes/Yes			Yes/Yes	
DC reverse polarity protection/AC short- circuit current capability/galvanically isolated	Yes/Yes/-			Yes/Yes/-	
GFCI function	Yes			Yes	
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					
Dimensions (W/H/D)	405 x 498 x 222mm			405 x 498 x 255mm	
Weight	20kg			25kg	
Operating temperature range	-25°C...+60°C/13°F...+140°F			-25°C...+60°C/13°F...+140°F	
Max. Operating altitude	2000m			2000m	
Noise emission (typical)	< 40 dB(A)@1m			< 45 dB(A)@1m	
Self-consumption (night)	< 0.6W			0.6W	
Standby power (rated voltage)	< 12W			< 12W	
Topology	Transformerless			Transformerless	
Cooling concept	Convection			Convection	
Degree of protection (according to IEC 60529)	IP65			IP65	
Climatic category (according to IEC 60721-3-4)	4K4H			4K4H	
Installation	Indoor&Outdoor			Indoor&Outdoor	
Mounting information	Wall mounting bracket			Wall mounting bracket	
Relative humidity (non-condensing)	0%~100%			0%~100%	
Features					
DC connection technology	SUNCLIX			SUNCLIX	
AC connection technology	Plug-in			Plug-in	
Interface: RS485/Ethernet/WIFI	Yes/-/-			Yes/-/-	
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, AS 4777.2, AS 4777.3, AS/NZS 3100, C10/11, NEN50438, G83/2, G59/3			CE, IEC62109-1, IEC62109-2, VDE-AR-N 4105, G83/2, NEN50438, AS 4777.2, AS 4777.3 AS/NZS 3100	

1) Recommended value/range by Zeversolar for units under various conditions.
It is mandatory to verify and consider the local environmental factors for the system design. Detailed configuration values for individual locations can be obtained from the Zeversolar planning tool www.zeverplan.com. Alternatively contact your local Zeversolar provider for assistance.
2) Will be preset based on the different region safety requirements.
3) 900V changed to 1000V will cut in end of March 2015.
4) 9A changed to 11A will cut in end of March 2015.

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