Three-Phase String Inverters 10 kW to 20 kW

> Residential, Commercial, Solar Inverters

Eversol TLC Series

TLC10K/15K/17K/20K

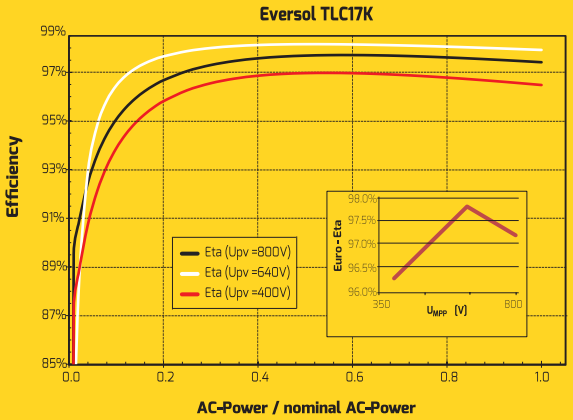
Introduction

We believe that the world would be a better place if everybody had easy access to the cleanest energy. By creating simple, easy to use, affordable and reliable inverters we are revolutionizing access to solar power for businesses and large scale PV developers. Ideal for large commercial or utility scale PV plants, our Eversol TLC three phase inverter with simple feed in power and advanced monitoring functions deliver greater financial savings to your business and returns on investment from your PV Plant.

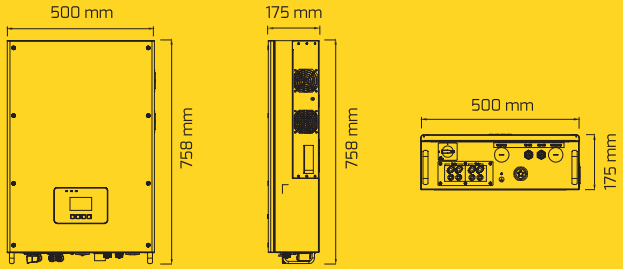
Features

- Efficiency 98.3%
- Max. Input Voltage 1000V
- Graphical display
- Multiple Maximum Powerpoint Tracking
- IP65 Protection Class
- RS485 and Modbus RTU communications
- Online web monitoring via our PMU commercial
- Grid Management Functions via our PMU commercial
- Easy handling for installation and maintenance

Conversion efficiency



Technical data



JIANGSU ZEVERSOLAR NEW ENERGY CO., LTD.
No.198 Xiangyang Road, Suzhou 215011, China • t +86 512 6937 0998-8861 • f +86 512 6937 3159
Sales: sales.china@zeversolar.com

For contact information in your region please visit www.zeversolar.com

zeversolar

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Technical data	Eversol TLC10K	Eversol TLC15K	Eversol TLC17K	Eversol TLC20K
Input (DC)				
Recommended max. PV array power (@cos=1)[1]	14500W	21800W	24600W	29100W
DC Convertible power (@cos=1)	10400W	15600W	17600W	20800W
Suggested PV power ratio[1]	80-140%			
Max. Input Voltage	1000V[3]			
MPP Voltage range/rated input voltage	270-800V/640V			
Min. Start voltage	250V			
Min. Feed-in power	12W			
Max. Input current per MPPT	22A/11A	22A/22A	22A/22A	22A/22A
Number of MPPTs	2	2	2	2
Number of independent MPP inputs	A:2, B:2	A:2, B:2	A:2, B:2	A:2, B:2
Output (AC)				
Rated active power	10000W	15000W	17000W	20000W
Max. Apparent AC power	10000VA	15000VA	17000VA	20000VA
Nominal AC voltage	3/N/PE220/380V,230/400V,240/415V			
Nominal AC voltage range	160-300V			
AC power frequency/range	50,60/+-5Hz			
Rated power frequency/rated grid voltage	50Hz/230V			
Max. Output current	3 x 16A	3 x 24A	3 x 25.8A	3 x 30A
Power factor (@rated power)	> 0.99			
Adjustable displacement power factor[2]	0.85 inductive ... 0.85 capacitive			
Feed-in phases/connection phases	3/3			
Harmonic distortion (THD) at rated output	< 3%			
Efficiency				
Max. Efficiency/European weighted efficiency	98.2%/97.8%	98.3%/97.9%		
MPPT Efficiency	99.50%	99.50%		
Protective devices				
DC Isolator	Optional			
PV Iso/Grid monitoring	Yes/Yes			
DC reverse polarity protection/AC short- circuit current capability/galvanically isolated	Yes/Yes/-			
GFCI function	Yes			
Protection class (according to IEC 62103)/overvoltage category (according to IEC 60664-1)	I/II (DC), III (AC)			
General data				
Dimensions (W/H/D)	500 x 758 x 175mm			
Weight	48kg			
Operating temperature range	-25°C...+60°C/13°F...+140°F			
Max. Operating altitude	2000m			
Noise emission (typical)	< 55 dB(A)@1m	< 60 dB(A)@1m		
Self-consumption (night)	< 1W			
Standby power (rated voltage)	< 12W			
Topology	Transformerless			
Cooling concept	Fan cooling			
Degree of protection (according to IEC 60529)	IP55 (fans), IP65 (others)			
Climatic category (according to IEC 60721-3-4)	4K4H			
Installation	Indoor&Outdoor			
Mounting information	Wall mounting bracket			
Relative humidity (non-condensing)	0%~100%			
Features				
DC connection technology	SUNCLIX			
AC connection technology	Plug-in			
Interface: RS485/Ethernet/WIFI	Yes/-/-			
Certificates and approvals (more available on request)	CE, IEC62109-1, IEC62109-2, VDE-AR-N 4105, VDE0126-1-1/A1:2012, VDE0126-1-1:2013, AS/NZS 3100, UTEC 15-712-1, C10/11, AS 4777.2, AS 4777.3, EN50438, G59/3, PPC(only for Eversol TLC 10K), BDEW 2008(only for Eversol TLC 15K&17K), NEN50438, CNCA/CTS0006, CNCA/CTS0004, PEA/MEA Guide, IEC61727, IEC62116, IEC61683(only for Eversol TLC 15K&17K&20K)			

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 for China and Thailand, end of June for rest of other countries.

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