

Three-Phase String Inverters 15 kW to 20 kW

> Residential, Commercial, Solar Inverters



Eversol TLC Series TLC15K/17K/20K

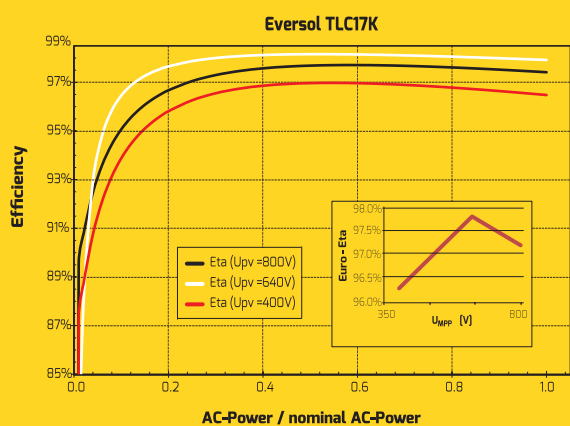
Introduction

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 small commercial scale PV plants, our Eversol TLC three phase inverter.

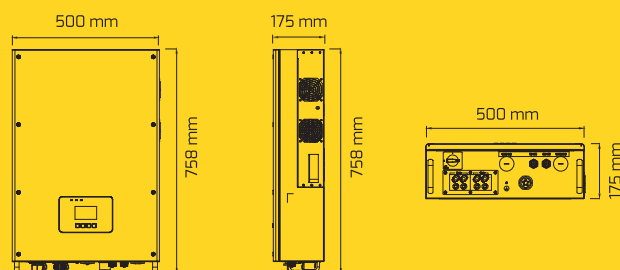
Features

- 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 ZeverCom, ZeverCom WiFi or ZeverManager
- Grid management functions via ZeverCom, ZeverCom WiFi or ZeverManager
- Easy handling for installation and maintenance

Conversion efficiency



Dimensions



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Three-Phase String Inverters 15 kW to 20 kW

Technical data	Eversol TLC15K	Eversol TLC17K	Eversol TLC20K
Input (DC)			
DC convertible power (@cosφ=1)	15800W	17900W	21000W
Max. input voltage	1000V ¹⁾		
MPP voltage range / rated input voltage	270-950V ¹⁾ / 640V		
Min. start voltage	250V		
Min. feed-in power	12W		
Max. input current per MPPT	22A / 22A		
Number of MPPTs	2		
Number of independent MPP inputs	2 / 2		
Output (AC)			
Rated active power	15000W	17000W	20000W
Max. apparent AC power	15000VA	17000VA	20000VA
Nominal AC voltage	3/N/PE, 220/380V, 230/400V, 240/415V		
Nominal AC voltage range (line to line)	277-520V		
AC power frequency / range	50,60 / +-5Hz		
Rated power frequency / rated grid voltage	50Hz / 230V		
Max. output current	3 x 24A	3 x 25.8A	3 x 30A
Power factor (@rated power)	> 0.99		
Adjustable displacement power factor	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	98.3% / 97.9%		
MPPT efficiency	99.50%		
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 / Ethernet / WIFI	● / - / -		
Display	graphical LCD		
Dimensions (W x H x D)	500 x 758 x 175mm		
Weight	48kg		
Cooling concept	fan cooling		
Noise emission (typical)	< 60 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)	IP55 (fans), IP65 (others)		
Climatic category (according to IEC 60721-3-4)	4K4H		
Topology	transformerless		
Self-consumption (night)	< 1W		
Standby power	< 12W		
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, NEN50438, CNCA/CT50006, CNCA/CT50004, PEA/MEA Guide, IEC61727, IEC62116, IEC61683 BDEW 2008(only for Eversol TLC 15K&17K)		

● standard ○ optional - not available

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

1) Certification roadmap completed in Q3-2015. Please refer to our local sales organization for detailed information.