

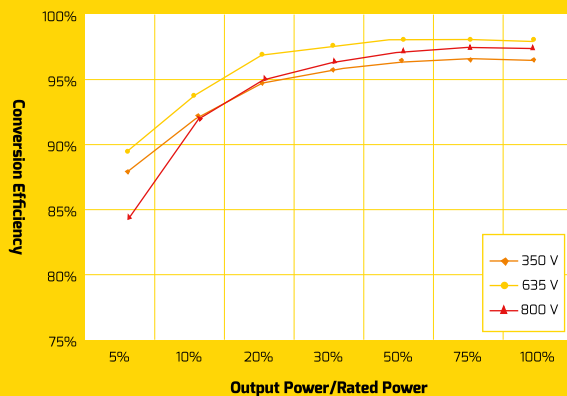
Three-Phase String Inverters 4 kW to 20 kW

We offer a range of eight three-phase string inverters for indoor and outdoor use with different maximum power capacities to cover the needs of residential and commercial use. All our inverters come with dual MPPT technology for increased efficiency of the entire photovoltaic system.

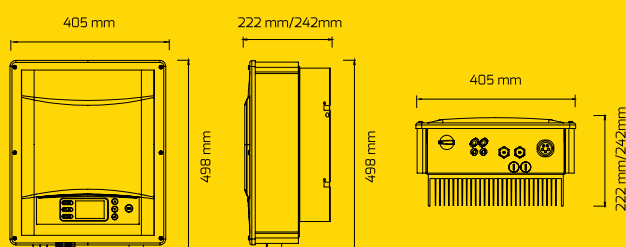
Evershine TLC Series



Conversion efficiency



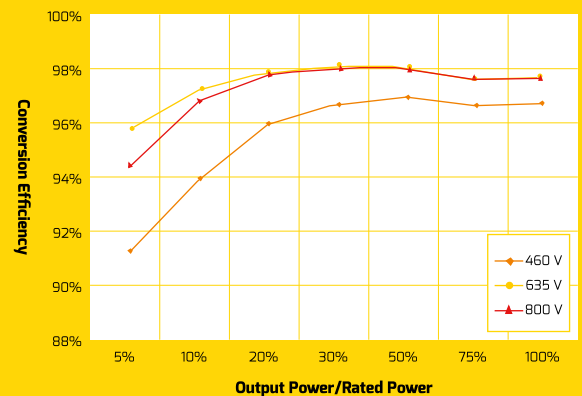
Technical data



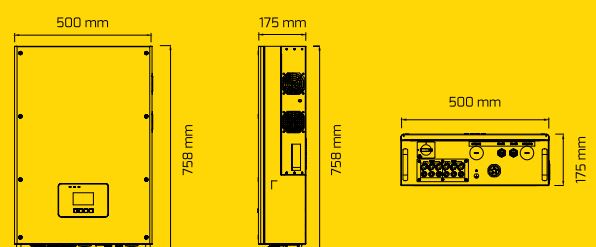
Eversol TLC Series



Conversion efficiency



Technical data



Three-Phase String Inverters 4 kW to 20 kW

Technical data	Evershine TLC4000	Evershine ^{**} TLC5000	Evershine TLC6000	Evershine ^{**} TLC8000	Eversol ^{**} TLC10K	Eversol TLC15K	Eversol TLC17K	Eversol TLC20K
DC input data								
Max. PV array power [W]	4200	5200	6300	8400	10400	15600	17600	20800
Max. DC voltage [V]	900		1000		900			
Rated input voltage [V]	640							
MPP voltage range [V]	200-800			200-900		270-800		
Full load MPP voltage range [V]	235-800	290-800	350-800	380-800	300-800	340-800	390-800	450-800
Switch-off DC voltage [V]	180				220			
Start voltage [V]	250				300			
Max. DC current (input A/input B) [A]	9/9			11/11	22/11	22/22		
Number of MPP trackers	2							
Max. number of parallel inputs (A/B)	1/1				3/3			
Switch-on power [W]	12							
Output data								
Rated AC power [W]	4000	5000	6000	8000	10000	15000	17000	20000
Max. AC Power [VA]	4000	5000	6000	8100	10000	15000	17000	20000
Rated AC grid voltage [V]*	3/N/PE220/380,230/400,240/415							
Rated AC grid frequency [Hz]*	50				50/60			
AC voltage range [V]*	160-280							
AC frequency range [Hz]	According to local codes							
Max. continuous output current [A]	3 x 7	3 x 8.0	3 x 9.2	3 x 13.3	3 x 16	3 x 24	3 x 25.8	3 x 30
Power factor	> 0.99 (0.85 inductive ... 0.85 capacitive)							
Harmonic distortion (THD) at rated output	< 3%							
Power consumption at night [W]	< 0.6							
Power consumption at standby [W]	< 12							
MPPT efficiency								
MPPT adaptation efficiency	> 99.50 %							
Conversion efficiency								
Max. efficiency	> 98.00%							
European weighted efficiency	97.50%							
Safety equipment								
DC insulation monitoring	Integrated							
Earth fault protection	Integrated							
Mains monitoring	Integrated							
Earth fault current monitoring	Integrated							
DC current monitoring	Integrated							
General data								
Dimensions (WxHxD) [mm]	405 x 498 x 222			405 x 498 x 242	500 x 758 x 175			
Weight [kg]	21.8			<24	48			
Installation environment	Indoor and outdoor							
Mounting information	Wall mounting bracket							
Operating temperature range	-25°C ... +60°C (derating in case of temperatures above 45°C)							
Relative humidity	0% to 100%, no condensation							
IP protection type	IP65 as per EN60529				IP55 (fans), IP65 as per EN60529 (others)			
Insulation type	Transformerless							
Cooling concept	Convection				Fan cooling			
Noise level	< 40 dB(A)@1m				< 60 dB(A)@1m			
LCD display	LCD, 240 x 160 pixel							
Communication interface	RS485							
Software updates interface	USB							
Certificates and approvals	IEC61000-6-2, IEC61000-6-3, IEC61000-3-2, IEC61000-3-3, IEC62109-1, IEC62109-2, VDE0126-1-1/A1:2012, VDE0126-1-1:2013, VDE-AR-N 4105, NEN50438, G83/2, EN50438	IEC61000-6-2, IEC61000-6-3, IEC61000-3-2, IEC61000-3-3, IEC62109-1, IEC62109-2, VDE0126-1-1/A1:2012, VDE0126-1-1:2013, AS 4777.2, AS 4777.3, AS/NZS 3100	IEC61000-6-2, IEC61000-6-3, IEC61000-3-2, IEC61000-3-3, IEC62109-1, IEC62109-2, VDE0126-1-1/A1:2012, VDE0126-1-1:2013, VDE-AR-N 4105, NEN50438, G83/2, EN50438	IEC61000-6-2, IEC61000-6-3, IEC61000-3-2, IEC61000-3-3, IEC62109-1, IEC62109-2, VDE-AR-N 4105, AS 4777.2, AS 4777.3, AS/NZS 3100	**IEC61000-6-2, IEC61000-6-3, IEC61000-3-2, IEC61000-3-3, IEC62109-1, IEC62109-2, VDE-AR-N 4105, VDE0126-1-1/A1:2012, VDE0126-1-1:2013	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, IEC62109-1, IEC62109-2, AS/NZS3100, VDE-AR-N 4105, VDE0126-1-1, AS4777.2, AS4777.3, C10/11, UTEC 15-712-1, NEN50438, G59/3, EN50438, BDEW 2008, CNCA/CTS0006, CNCA/CTS0004, PEA/MEA Guide		

* The data may vary depending on the local grid standards.

** Available during 2nd half of 2014. Please contact your local sales team for further information.