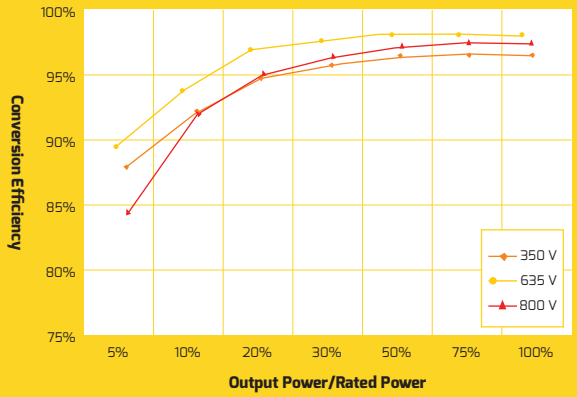
Three-Phase String Inverters 4 kW to 20 kW

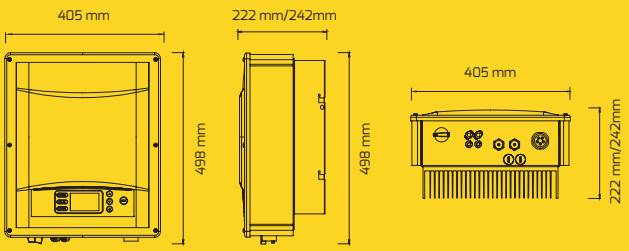
We offer a range of eight three-phase string inverters for indoor and outdoor use with different maximum power capacities to cover the needs of residential and commercial use. All our inverters come with dual MPPT technology for increased efficiency of the entire photovoltaic system.

Evershine TLC Series

Conversion efficiency

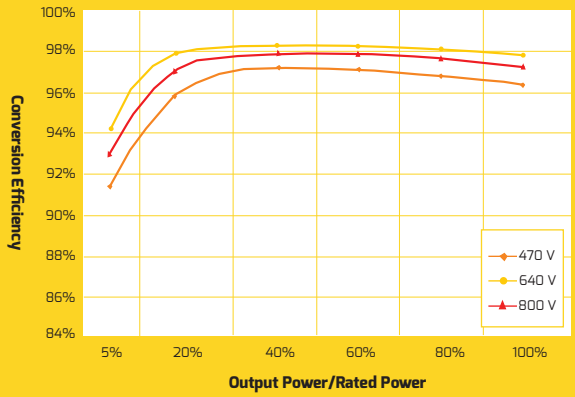


Technical data

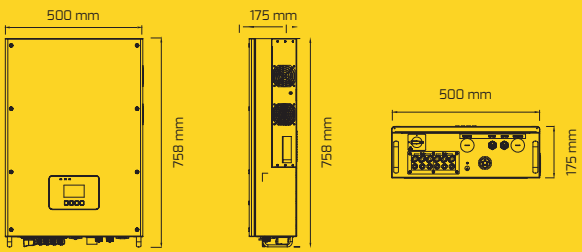


Eversol TLC Series

Conversion efficiency



Technical data



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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	320-800	340-800	390-800	450-800
Switch-off DC voltage [V]	180				220			
Start voltage [V]	250				300			
Max. DC current [A]	9/9			11/11	22/11	22/22		
Max. number of parallel inputs	1/1				3/3			
Number of MPP trackers	2							
Switch-on power [W]	12							
Output data								
Rated AC power [W]**	4000	5000	6000	8000	10000	15000	17000	20000
Max. apparent 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				160-300			
AC frequency range [Hz]	According to local codes							
Max. output current [A]	3 x 7	3 x 8.5	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				< 1			
Power consumption at standby [W]	< 12							
MPPT efficiency								
MPPT adaptation efficiency	> 99.50%							
Conversion efficiency								
Max. efficiency	>98.00%				>98.20%	>98.30%		
European weighted efficiency	97.50%				97.80%	97.90%		
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				< 55 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(only for TLC4K&6K), G83/2(only for TLC4K&6K), EN50438(only for TLC4K&6K), , AS 4777.2(only for TLC5K), AS 4777.3(only for TLC5K), AS/NZS 3100(only for TLC5K), C10/11(only for TLC5K)			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, the standards as below only for Eversol TLC10K : VDE0126-1-1/A1:2012, VDE0126-1-1:2013, C10/11, PPC, UTEC 15-712-1	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, IEC62109-1, IEC62109-2, ASINZS3100, VDE-AR-N 4105, VDE0126-1-1/A1:2012 VDE0126-1-1:2013 AS4777.2, AS4777.3,C10/11, UTEC 15-712-1, NEN50438,G59/3, EN50438, BDEW 2008(only for TLC15K&TLC17K), CNCA/CTS0006, CNCA/CTS0004, PEA/MEA Guide IEC61727, IEC62116,IEC61683, IEC60068-2(1, 2, 14, 30)			

* The data may vary depending on the local grid standards.
** Within the scope of the EEG law an active power limitation according to current nationality EEG is preset, which can be adjusted at any time when connected to a Power Monitoring Unit. (For Germany only)
*** Available from November 2014. Please contact your local sales team for further information.

As of July, 2014 / Technical data is subject to revisions.