



## Technical Data

### Eversol TL10K/12K/15K/17K

Type	Eversol TL10K	Eversol TL12K	Eversol TL15K	Eversol TL17K
<b>DC input data</b>				
Max. PV-generator power [W]	10400	12500	15600	17600
Max. DC Voltage [V]	900	900	900	900
MPP voltage range [V]	270-800	270-800	270-800	270-800
Turn off DC Voltage [V]	220	220	220	220
Max. DC current (input A/input B)[A]	22/11	22/11	22/22	22/22
Number of MPP	2	2	2	2
Max.number of Parallel(A/B)	4/1	4/1	3/3	3/3
<b>Output data</b>				
Power connection	3/N/PE,230/400V			
Rated AC power [W]	10000	12000	15000	17000
Max.apparent AC Power [VA]	10000	12000	15000	17000
Grid voltage range	According to AS4777, VDE 0126-1-1,VDE-AR-N 4105.G59/2,Enel Guida,RD1663,CQC			
Grid frequency range	According to AS4777, VDE 0126-1-1,VDE-AR-N 4105.G59/2,Enel Guida,RD1663,CQC			
Max. current [A]	16A	19,2A	24A	25,8A
Power factor	0.85 inductive...0.85 capacitive			
Harmonic distortion (THD) at rated output	<3%	<3%	<3%	<3%
Power consumption at night [W]	<0.6	<0.6	<0.6	<0.6
Power consumption at standby [W]	<12	<12	<12	<12
<b>Efficiency</b>				
Max. efficiency	>98,0%	>98,0%	>98,2%	>98,2%
Euro efficiency	>97,5%	>97,5%	>97,5%	>97,5%
MPPT adaptation efficiency	99,5%	99,5%	99,5%	99,5%
<b>Safety equipment</b>				
Internal DC voltage Surge protection	Type 3 Integrated			
DC Insulation monitoring	Integrated			
Earth fault protection	Integrated			
Mains monitoring	Integrated			
Earth fault current monitoring	Integrated			
DC current monitoring	Integrated			
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4			
BDEW	Integrated			
<b>Normative reference</b>				
CE- compliant according to	EN61000-3-12, EN61000-3-11			
<b>General data</b>				
Dimensions (WxHxD) [mm]	500x720x175			
Weight [kg]	50	50	50	50
Installation environment	Indoor and Outdoor			
Mounting information	Wall bracket			
Operating temperature range	-20°C ... +60°C ( up 45°C derating )			
Relative humidity	0% ~ 98%, no condensation			
IP protection type	IP 65 according to EN 60529			
Isolation type	Transformerless			
Cooling concept	Fan cooling			
Noise level	< 50 dB(A)			
LED display	3			
LCD display	800X480 Pixel TFT LCD			
Communication interface	RS485/RS232/USB/Wireless(optional)			
Standard warranty	5years			



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## Evercentral TL500K

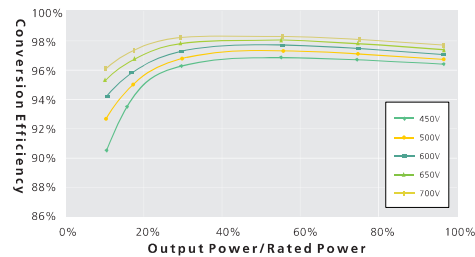


## PV Grid-connected Inverter Evercentral TL500K

### Features:

- Function of low voltage ride through
- Maximum efficiency of 98.7%
- Wide range of MPPT voltage
- With 32 bit DSP chip, realize the space vector calculation, has the reactive power compensation ability
- With DSP+CPLD framework, fast computational speed
- No derating below 3000m
- Perfect protection function
- Certificate: CQC
- In line with the German BDEW Medium Voltage Directive

### Efficiency Curve:



Technical Data	TL500K
<b>DC input data</b>	
Max. PV power [KW]	550
DC voltage range, MPPT [V]	450-850
Max. permissible DC voltage [V]	1000
Max. permissible DC current [A]	1120
Number of DC inputs	12
Number of MPP trackers	1
<b>Output data</b>	
Nominal AC output power [KW]	500
Operating grid voltage $\pm 15\%$ [V]	300
Operating range, grid frequency [Hz]	50/60
Nominal AC current [A]	965
Power factor [cos $\phi$ ]	0.9 inductive ... 0.9 capacitive
Harmonic distortion (THD) at rated output	<3%
Power consumption at night [W]	<100
<b>Efficiency</b>	
Max. efficiency	>98.70%
Euro efficiency	>98.50%
<b>Features</b>	
Ground fault monitoring	Yes
Emergency stop	Yes
Power switch AC side	switch
Power switch DC side	switch
Monitored surge voltage protectors DC	Yes
Monitored surge voltage protectors AC	Yes
Monitored surge voltage protectors for auxiliary supply	Yes
<b>Standards</b>	
CQC	Yes
LVRT	Yes
<b>General data</b>	
Dimensions (WxHxD) [mm]	2200*2265*1000
Weight [kg]	2100
Installation environment	Indoor
Operating temperature range	-25°C ... +55°C
Relative humidity	0% to 95%, no condensation
Site altitude	Up to 3000m without derating
IP protection type	IP21
Isolation type	Transformerless
Cooling concept	Fan cooling
LCD display	HMI touchscreen
Communication interface	RS485 / RS232

### Circuit Diagram:

