

Evercentral TL500K

Technical Data	TL500K
DC input data	
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
Output data	
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 ϕ]	0.9 inductive ... 0.9 capacitive
Harmonic distortion (THD) at rated output	<3%
Power consumption at night [W]	<100
Efficiency	
Max. efficiency	>98,70%
Euro efficiency	>98,50%
Features	
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
Standards	
CQC	Yes
LVRT	Yes
General data	
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

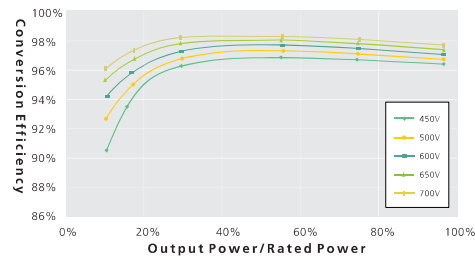


PV Grid-connected Inverter Evercentral TL500K

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:



Circuit Diagram:

