

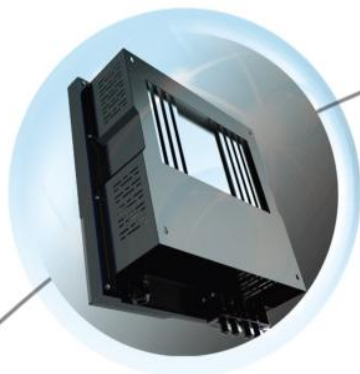


# MacSolar



## Single-Phase PV Grid-connected Inverter

Macsol-TL3K/Macsol-TL4K/Macsol-TL5k



### Features:

- Conversion Efficiency up to 97.6%
- Wide MPPT Voltage Range
- Transformerless
- Integrated DC switch
- Multi-certified

Type	Macsol-TL3K	Macsol-TL4K	Macsol-TL5K
<b>Input (DC)</b>			
Max. DC Power [W]	3400	4500	5600
Max. DC Voltage [V]		580	
PV-Voltage Range, MPPT [V]		100-580	
Max. Input Current [A]	21	21	28
Number of DC Connection Sets	2	2	2
Number of MPP Trackers	1	1	2
DC Switch	Intergrated		
<b>Output (AC)</b>			
Rated AC Power [W]	3000	4000	5000
Max. AC Power [W]	3300	4400	5500
Rated AC Current [A]	13.0	17.4	21.8
Max. AC Current [A]	14.4	19.1	24.0
Grid Voltage/Frequency Range	According to VDE 0126-1-1, RD1663, DK5940		
Power Factor(cos $\phi$ )	1		
AC Current Distortion (THD)	< 2%		
Consumption at Night [W]	0		
<b>Efficiency</b>			
Max. Efficiency	97.5%	97.6%	97.6%
Euro Efficiency (at 360Vdc)	96.5%	97.0%	97.0%
MPPT Accuracy	99.9%	99.9%	99.9%
<b>Protection</b>			
Internal Overvoltage Protection	Intergrated		
DC Insulation Monitoring	Intergrated		
Ground Fault Protection	According to VDE 0126-1-1, RD1663, DK5940		
Grid Monitoring	According to VDE 0126-1-1, RD1663, DK5940		
Ground Fault Current Monitoring	According to VDE 0126-1-1, RD1663, DK5940		
DC/AC Side Varistors	Intergrated		
DC Current Monitoring	Intergrated		
<b>Interface</b>			
DC Connection	MultiContact $\Phi$ 4mm		
LCD Display	3.5 Inches, 256x160 Pixels, Backlight, Inverter Parameter and Data Display at Night		
Display Language	Multi Language		
Datalogger & Communication	RS485, USB, GPRS(Optional), Ethernet(Optional)		
<b>Devide Data</b>			
Isolation	Without transformer		
Operating Temperature Range	-20°C to +60°C	-20°C to +60°C (40°C to 60°C with derating )	
Cooling Method	Natural Convection		
IP Protection	IP 65		
Dimensions (WxHxD) [mm]	496 × 515 × 210		
Weight [kg]	20.3	20.3	22.6
Standard Warranty (Year)	5 / 10 (Optional)		

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