

Macsol-TL3K/TL4K/TL5K

Macsol-TL3K/TL4K/TL5K is the standard single phase inverter in Macsolar family which is used in small systems such as rooftop projects. In accordance with VDE regulations, Macsol-TL3K/TL4K/TL5K also meets 10+ grid safety standards in other European countries. The design philosophy of multiple input connectors brings more flexible applications. In the meantime, Macsol-TL3K/TL4K/TL5K has the world first class conversion efficiency and comprehensive protection functions which guarantees more profit for the client as well as the safety of the operator and system.

Product Performance:

- Wide DC input voltage range.
- High MPPT tracking accuracy of up to 99.9%.
- Maximum Conversion Efficiency of up to 97.6%
- IP 65 protection, reliable in severe outdoor conditions.
- Comprehensive safety protections.
- Multi-language display.
- Without transformer.
- Multiple options for communication solutions (RS485, ETHERNET, USB).
- Light and convenient, installation can be done with single person.



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Technical Data

Macsol-TL3K/TL4K/TL5K

Type	Macsol-TL3K	Macsol-TL4K	Macsol-TL5K
Input (DC)			
Max. DC Power [W]	3400	4550	5650
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	1/2(Optional)	1/2(Optional)	2
DC Switch	Integrated(Optional)		
Output (AC)			
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, G83, RD1663, ENEL, C10/11, AS4777		
Power Factor(cos φ)	1		
AC Current Distortion (THD)	< 2%		
Consumption at Night [W]	0		
Efficiency			
Max. Efficiency	97.5%	97.6%	97.6%
Euro Efficiency (at 360V _{dc})	96.5%	97.0%	97.0%
MPPT Accuracy	99.9%	99.9%	99.9%
Interface			
DC Connection	H4/MC4(Optional)		
LCD Display	3.5 Inches, 256x160 Pixels, Backlight		
Display Language	Multi Languages		
Data logger & Communication	RS485, USB(Optional), GPRS(Optional), Ethernet(Optional)		
Device Data			
Isolation	Without Transformer		
Operating Temperature Range	-20°C to +60°C		
Cooling Method	Natural Convection		
Ambient Humidity	0% to 98% Non-Condensing		
Noise Emission (dBA)	<40		
IP Protection	IP65		
Dimensions (WxHxD) [mm]	495 × 515× 210		
Weight [kg]	22	22	23
Standard Warranty (Year)	5 / 10 (Optional)		

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