



MacSolar



Single-Phase PV Grid-connected Inverter

MCS2-TL1.5K/MCS2-TL2K



Features:

- Conversion Efficiency up to 97.2%
- Wide MPPT Voltage Range
- Transformerless
- Multi-certified
- IP65 protection
- Comprehensive safety protections
- Multi-language display
- Multiple communication options

Type	MCS2-TL1.5K	MCS2-TL2K
Input (DC)		
Max. DC Power [W]	1800	2400
Rated DC Power [W]	1600	2100
Absolute DC Voltage [V]	500	
MPPT DC Voltage Range[V]	125-480	
Standby Voltage [V]	120	
Stop Voltage[V]	100	
Activation Voltage[V]	150	
Rated DC Voltage[V]	360	
Max. Input Current [A]	12	12
Number of DC Connection Sets	1	2
Number of MPP Trackers	1	
DC Connection	Amphenol Helios 4/DC Switch(Optional)	
Output (AC)		
Rated AC Power [W]	1500	2000
Max. AC Power [W]	1650	2200
Rated AC Current [A]	6.5	8.7
Max. AC Current [A]	8.5	11.0
Grid Voltage/Frequency Range	According to VDE 0126-1-1, RD1663, ENEL guide-2010,G83,AS4777,C10/11	
Power Factor(cos Φ)	>0.99(full load)	
AC Current Distortion (THD)	< 3%	
AC Connection	WIELAND 96-032-5054-3	
Efficiency		
Max. Efficiency	97.2%	97.2%
Euro Efficiency (at 360Vdc)	96.6%	96.6%
MPPT Accuracy	99.5%	99.5%
Protection		
Internal Overvoltage Protection	Yes	
DC Insulation Monitoring	Yes	
DC/AC Side Varistors	Yes	
Direct Current Monitoring	Yes	
Ground Fault Current Monitoring	Yes	
Grid Monitoring	Yes	
Short Current Protection	Yes	
Thermal Derating Protection	Yes	
Interface		
LCD Display	128x64 Pixels,Backlight	
Display Language	Multi Languages	
Datalogger & Communication	RS485A,USB,RS485B(Optional),Ethernet(Optional)	
Other Data		
Isolation	Transformerless	
Operating Temperature Range	-20 C to +60 C	
Cooling Method	Natural Convection	
Ambient Humidity	0% to 98% Non-condensing	
Noise Emission [dBA]	<40	
Operation Altitude[m]	<2000	
Consumption during Night[W]	<0.1	
IP Protection	IP65	
Dimensions (WxHxD) [mm]	507 x 350 x 159	
Weight[kg]	11.7	
Standard Warranty [Year]	5 / 10 (Optional)	