



**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
<b>Input (DC)</b>		
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)	
<b>Output (AC)</b>		
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	
<b>Efficiency</b>		
Max. Efficiency	97.2%	97.2%
Euro Efficiency (at 360Vdc)	96.6%	96.6%
MPPT Accuracy	99.5%	99.5%
<b>Protection</b>		
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	
<b>Interface</b>		
LCD Display	128x64 Pixels,Backlight	
Display Language	Multi Languages	
Datalogger & Communication	RS485A,USB,RS485B(Optional),Ethernet(Optional)	
<b>Other Data</b>		
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)	