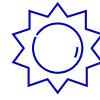


ONE-PHASE ON-GRID PHOTOVOLTAIC SOLAR INVERTER

TSI-M4K1, TSI-M6K2, TSI-M7,5K2, TSI-M10K2



PRODUCT FEATURES



EFFICIENT

- Compatible with high-power photovoltaic modules and bifacial modules.
- Widest MPPT range.
- Up to 1.5 times the CC/CA ratio



RELIABLE

- Built-in type II DC/AC SPD.
- Smart PV string monitoring.
- IP66.
- Built-in AFCI.



SINGLE

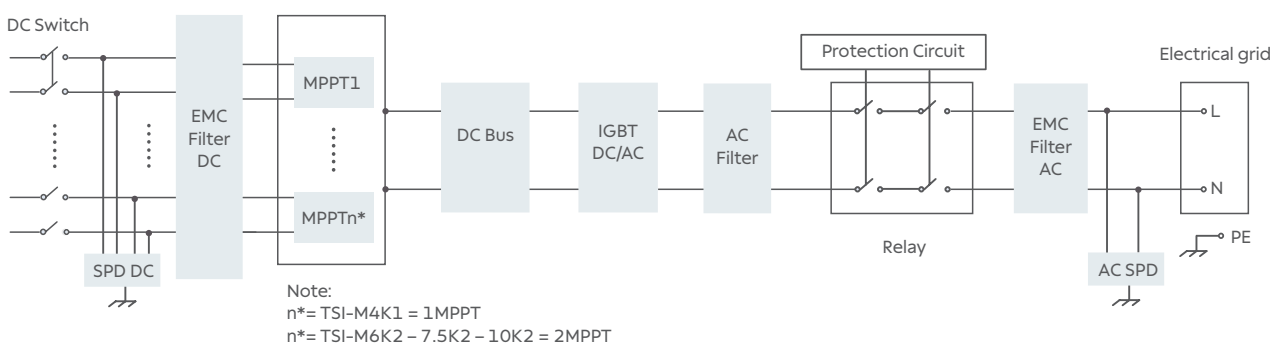
- Plug & play.
- Fanless, low-noise design.
- Smart LED indicators.



SMART

- Remote firmware updating.
- Energy efficiency and carbon reduction viewing.

TOPOLOGICAL GRAPH



TECHNICAL DATA

Model	TSI-M4K1	TSI-M6K2	TSI-M7,5K2	TSI-M10K2
DC Input				
Maximum Recommended Input Power	6 kW	9 kW	11.25 kW	15 kW
Maximum Input Voltage	600 VDC			
Starting Voltage	55 VDC			
MPPT Operating Range	55 ~ 550 VDC			
MPPT Voltage at Full Load	210 ~ 520 VDC	235 ~ 520 VDC	210 ~ 520 VDC	260 ~ 520 VDC
Maximum Input Current per MPPT	22 A	20 A / 20 A	26 A / 20 A	
Maximum Short Circuit Current	33 A	30 A / 30 A	39 A / 30 A	
Number of DC Inputs	2	1/1	2/1	
MPPT Number	1	2		
AC Output				
Rated Output Power	4 kW	6 kW	7.5 kW	10 kW
Maximum Output Power	4.4 kW	6.6 kW	8.25 kW	11 kW
Rated Output Voltage	220 VAC (L + N + PE)			
Operating voltage range	165 ~ 275 VAC			
Rated Output Current	18.2 A	27.3 A	34.1 A	45.5 A
Maximum Output Current	20 A	30 A	37.5 A	50 A
Rated Grid Frequency	60 Hz			
Power Factor	>0.99 (0.8 inductive — 0.8 capacitive)			
Total Harmonic Distortion (THD)	<3% (in rated power)			
Efficiency				
Maximum Efficiency	97.8%			
European Standard Efficiency	97.1%	97.4%	97.2%	
Protection				
Surge Protection	DC Type II / AC Type II			
Insulation Resistance Protection	Yes			
Residual Leakage Current Protection	Yes			
String Failure Detection	Yes			
Reverse PV Polarity Protection	Yes			
Anti-Islanding Protection	Yes			
Output Overcurrent Protection	Yes			
Arc-Fault Circuit Interrupter (AFCI)	Yes			
DC Switch	Yes			
Zero-Export Function	Yes			
General Data				
Dimensions (W × H × D)	425 × 400 × 146 mm	425 × 400 × 167 mm	512 x 438 x 177 mm	
Weight	≤8 kg	≤12 kg	≤16 kg	
Ingress Protection Rating	IP66			
Operating Temperature	-25 °C to +60 °C (-13 °F to 140 °F)			
Cooling	Natural cooling			
Topology	Without transformer			
Operating Altitude	4000 m (>3000 m derating)			
Display	LED, WLAN + APP			
Communication	Wi-Fi			
DC Interface Type	MC4			
AC Interface Type	Plug-in connector			