



PV MICROINVERTER Model: MP3000

Max. Input Voltage	50 VDC	Nominal Output Voltage	230 V
Range of Peak Power MPPT Voltage	28-48 VDC	Nominal Output Frequency	50 Hz
Range of Input Operating Voltage	14-90 VDC	Peak Conversion Efficiency	97.6%
Start-up Voltage	>27 VDC	Output Power Factor	-0.99
Max. Continuous Input Current	20 A	Size of Enclosure	IP67
Max. Input Short Circuit Current	20 A	Over Voltage Category	III
Max. Continuous Output Power	3000 W	Protective Class	Class II
Max. Continuous Output Current	13.8 A	Operating Ambient Temp.	-40 ~ +65°C

CE 2 4 1 1

TSUN TITAN Microinverter

TSOL-MP2250 TSOL-MP3000 TSOL-MS3000

High Efficiency

- Higher output power, up to 3000W
- Higher input DC current, up to 18.5A, compatible with 182/210 solar module
- Individual power conversion, up to 6 MPPTs, fit for complicated roof installation
- Unique topology design, Max. efficiency up to 97.2%

High Safety

- Low DC input voltage, no risk for DC Arc
- Comply with the requirements of rapid shutdown

High Usability

- Plug & Play design, fast installation and wiring
- Intergated with TSUN independent developed communication module, no extra monitor device needed
- "One-button" networking configuration with multiple micro inverters at the same time, unique monitoring solution for microinverter

High Reliability

- IP67 design, high level of dustproof and waterproof, suitable for outdoor
- Unique radiating fin design, good heat dissipation, longer life time
- Standard 12 years warranty including the communication module

CE VDE 0126 VDE 4105 EN 50549 AS4777 CEI 0-21 INMETRO RD 1699 NTS631 G 98 CQC MEA PEA

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Technical Data

Model	TSOL-MP2250	TSOL-MP3000	TSOL-MS3000
Input(DC)			
Quantity of Input	4 inputs, 4 Panels	6 inputs, 5~6 Panels	4 inputs, 7~8 Panels
Recommended Module Power [W]	480~700+	480~700+	380~600+
Start up Voltage per Input@Rated condition [W]	22	22	24
Mppt Voltage Range per Input [V]	18~60	18~60	22~120
Max. Input Voltage per Input [V]	60	60	120
Max. Short-circuit Current per Input(A)	20	20	16
Max. Input Current per Input [A]	18.5	18.5	15
Quantity of MPPT	4	6	4
Output [AC]			
Max. Continuous Output Power [VA]	2250	3000	3000
Nominal Continuous Output Power [W]	2250	3000	3000
Nominal Output Current [A]	10.2	13.6	13.6
Max Output Current [A]	11	14	14
Nominal Output Voltage [V]	220/230/240, L/N/PE		
Nominal Frequency [Hz]	50/60		
Power Factor	>0.99 default, 0.8 leading ... 0.8 lagging		
Output Current Harmonic Distortion	<3%		
Efficiency			
Peak Inverter Efficiency	97.0%	97.1%	97.2%
CEC Weighted Efficiency	96.5%	96.6%	96.7%
Nominal MPPT Efficiency	99.9%	99.9%	99.9%
Mechanical Data			
Dimensions (WxHxD) [mm]	354 * 294 * 60		
Weight [kg]	6.4	6.8	6.8
General Data		Protection	
Display	LED indicators;TSUN APP+WEB	Anti-Islanding protection	Integrated
Communication	built-in WiFi module / 4G module (Optional)	DC reverse polarity protection	Integrated
Type of Isolation	Transformerless	Insulation monitoring	Integrated
Type of Enclosure	IP67	AC surge protection	TYPE II
Cooling	Natural convection	Residual current monitoring	Integrated
Operating Ambient Temperature Range	-25 ~ +65 °C (derating of over 50°C Ambient Temperature)	AC overcurrent protection	Integrated
Night Time Power Consumption	<1W	AC short-circuit protection	Integrated
Relative Humidity	100%	AC over/under voltage protection	Integrated
Max. Operating Altitude Without Derating [m]	2000	AC over/under frequency protection	Integrated
Standards	EN/IEC 62109-1, EN/IEC 62109-2, VDE-AR-N-4105, EN 50549-1, ABNT	Over-heat protection	Integrated

Diagram

