



PV MICROINVERTER		Model: MP3000	TSUN
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	12 Vdc	Output Power Factor	-0.99
Max. Continuous Input Current	20 A	Size of Enclosure	IP67
Max. Input Short Circuit Current	20 A	Protective Category	PE-II, Main-II
Max. Continuous Output Power	3000 W	Protective Class	1
Max. Continuous Output Current	13.8 A	Operating Ambient Temp.	-40 ~ +65 °C

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

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 [V]	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	7.2	6.8
General Data		Protection	
Display	LED indicators;TSUN APP+WEB	Anti-Islanding protection	Integrated
Communication	built-in WiFi module / 4G module (Optional)	Insulation monitoring	Integrated
Type of Isolation	Transformerless	AC surge protection	TYPE II
Type of Enclosure	IP67	Residual current monitoring	Integrated
Cooling	Natural convection	AC overcurrent protection	Integrated
Operating Ambient Temperature Range	-25 ~ +65 °C (derating of over 50°C Ambient Temperature)	AC short-circuit protection	Integrated
Night Time Power Consumption	<1W	AC over/under voltage protection	Integrated
Relative Humidity	100%	AC over/under frequency protection	Integrated
Max. Operating Altitude Without Derating [m]	2000	Over-heat protection	Integrated
Standards	EN/IEC 62109-1, EN/IEC 62109-2, VDE-AR-N-4105, EN 50549-1, ABNT		

Diagram

