



| 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 | ±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 |

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

Integrated 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 [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

