

SOLAR MICRO INVERTER

MSI1500



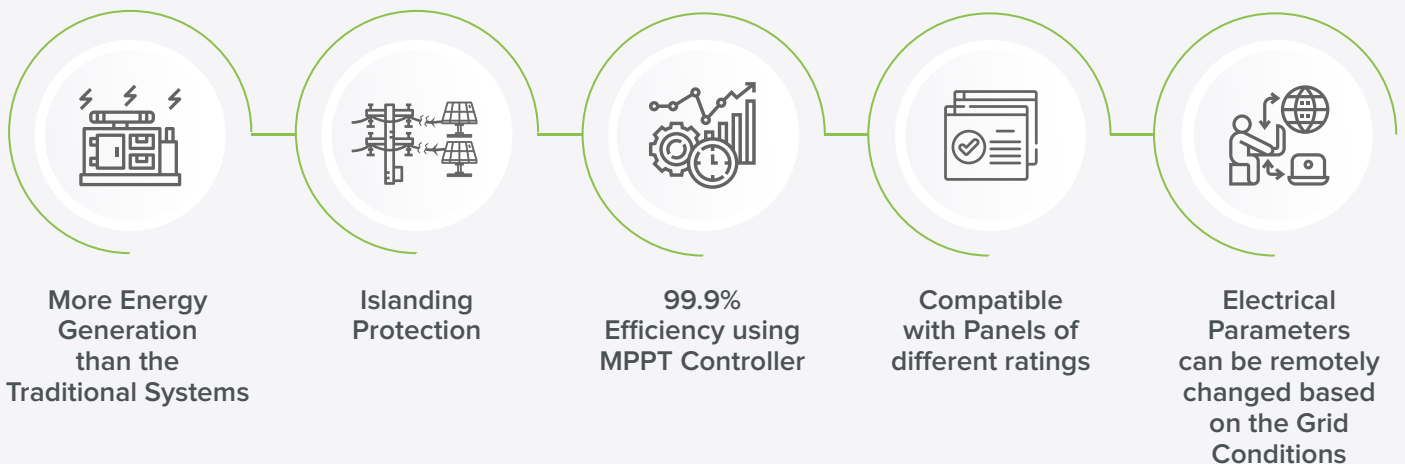
MSI700



BENEFITS

- Distributed Architecture
- DC-to-AC Conversion at the Module Level
- No Single Point of Failure
- Pure Sine-Wave
- Smart-Grid Ready
- Wifi and GPRS Monitoring Accessible through iOS and Android Applications
- Highest Warranty of 12 Years, with a 12-Year Upgrade Option
- Reliable Product Range
- Dynamic Feed-in-Control for 'Zero Export' Intelligence
- IP67 Rated Protection (Weatherproof)
- Easy Installation
- Safer Solar System
- Scalable in Runtime
- Module-wise Remote Monitoring and Controlling Ability
- Support of Ground Fault Detection

FEATURES



TECHNICAL SPECIFICATIONS

MSI1500

MSI700

INPUT DATA (DC)

• Recommended Module Power (STC)	230W-400W	230W-400W
• Module Compatibility	Four 60 or 72 Cell Panels	Two 60 or 72 Cell Panels
• Maximum Input Voltage	60Vdc	60Vdc
• MPPT Voltage Range (Full Power)	32-45Vdc	27-45Vdc
• Operating Voltage Range	22-55Vdc	22-55Vdc
• Maximum DC Short Circuit Current	60Adc (15Adc per MPPT)	30Adc (15Adc per MPPT)
• Maximum Input Current	40Adc (10Adc per MPPT)	19.4Adc (9.7Adc per MPPT)
• Number of MPPT	4	2

OUTPUT DATA (AC)

• Peak Power	1400W	700W
• Maximum Continuous Output Power	1200W-1400W	700W
• Maximum Continuous Output Current	6.09Aac	2.92Aac
• Nominal Voltage	230Vac	230Vac
• Nominal Operating Voltage Range	212-264Vac	212-264Vac
• Nominal Operating Frequency	50Hz	50Hz
• Nominal Operating Frequency Range	48-52Hz (±3%)	48-52Hz (±3%)
• Maximum Number Per Branch Circuit	3	5
• Power Factor	>0.99 (±0.8 adjustable)	>0.95

EFFICIENCY

• Peak Inverter Efficiency	97.00%	97.00%
• CEC Weighted Efficiency	96.00%	96.00%
• Static MPPT Efficiency	99.90%	99.40%
• Total Harmonic Distortion	<3%	<4%

MECHANICAL DATA

• Operating Ambient Temperature Range	-25°C to 60°C	-40°C to 65°C
• Dimensions	32.2cm x 27.8cm x 6.1cm (12.7in x 10.9in x 2.4in)	26cm x 18cm x 3.1cm (10.2in x 7.1in x 1.2in)
• Weight	7.5kg (16.5lbs)	3.5kg (7.7lbs)
• Cooling	Convection (No Fan Required)	Convection (No Fan Required)
• Enclosure Environmental Rating	IP67 Rated (NEMA 6)	IP67 Rated (NEMA 6)

OTHER FEATURES

• Communication	6 LowPAN	6 LowPAN
• Monitoring	Supports Ethernet/Wifi/GSM	Supports Ethernet/Wifi/GSM
• Protect Function	Overload, Short Circuit, Over/Under Voltage, Over Temperature	Overload, Short Circuit, Over/Under Voltage, Over Temperature
• Integrated Grounding	Meets NEC 690.35- Ground Fault Protection Internal to Micro Inverter	Meets NEC 690.35- Ground Fault Protection Internal to Micro Inverter
• Compliance	IEC 60068-2-1:2007 IEC 60068-2-2:2007 IEC 60068-2-14:2009 IEC 60068-2-30:2005 IEC 61683:1999 IEC 62116:2008 IEC 61000-6-1:2016 IEC 61000-6-2:2016 IEC 61000-6-3:2011 IEC 61000-6-4:2018	IEC 60068-2-1:2007 IEC 60068-2-2:2007 IEC 60068-2-14:2009 IEC 60068-2-30:2005 IEC 61683:1999 IEC 62116:2008 IEC 61000-6-1:2016 IEC 61000-6-2:2016 IEC 61000-6-3:2011 IEC 61000-6-4:2018