



Micro Solar Inverter

Micro Inverter – MSI1500 simplifies the conversion of the photovoltaic module DC generation to electrical AC output with more efficiency and can work under extreme temperature conditions up to 131°F (55°C). Instead the traditional way of central on-grid inverter connection, this inverter provides a connection to the quad photovoltaic (PV) module.



It can feed the harvested energy from each PV module to the electric grid. Even in shaded conditions, the system keeps generating the max output power as other connected inverters still working. Compact Size, easy installation, and IP67 rating makes it affordable, convenient and reliable for external usage.

BENEFITS

- Distributed architecture
- DC-to-AC conversion at the module level
- No single point of failure
- Pure sine-wave
- Smart-grid ready
- Highest warranty and reliability
- Dynamic feed-in control for 'Zero Export' intelligence
- IP67 rated (weatherproof)
- Easy installation
- Safer solar system
- Scalable in runtime
- Remote monitoring and controlling ability

FEATURES

More energy generation than the traditional system

99.9% efficiency using MPPT controller

Islanding protection

Compatible with panels of different ratings

Remotely change electrical parameter as per grid conditions

S P E C I F I C A T I O N S

INPUT D.C.	
Recommended Input Power	230-400W+ Per MPPT
Maximum Voc (DC V)	60V
MPPT Voltage Range (Full Power)	32 - 49V
Operating Voltage Range	22 - 55V
Number of MPPT	4
Max. Input String	4
Max. DC Short Circuit Current (DC A)	60A (15A per MPPT)
Max. Input Current (DC A)	40A (12A per MPPT)
Module Capability	60 cells to 72 Cell PV
OUTPUT A.C.	
Peak Power	1500W
Max. Continuous Output Power (W)	1200-1500W
Max. Continuous Output Current	5.22 - 6.09A
Nominal Voltage	230V
Nominal Operating Voltage Range	202 - 268V
Nominal Operating Frequency	48 - 52Hz
Power Factor	>0.95 (± 0.05 adjustable)
Total Harmonic Distortion	<3%
Nominal AC Output Current	15A
Maximum Units Per 20A branch	3
EFFICIENCY	
Peak Inverter Efficiency	96.0%
Static MPPT Efficiency	99.9%
CEC Weighted Efficiency	94.5%
MECHANICAL DATA	
Operating Ambient Temp. Range	- 10 °C to +55 °C
Dimensions (W X H X D)	32.2 cm X 27.8 cm X 8.0 cm (12.7" X 10.9" X 3.1")
Weight	7.5 Kgs (16.5 lbs)
OTHER FEATURES	
Reactive Power Compensation	Yes (PF Adjustable)
Night Time Power Consumption	<200mW
Communication*	6LoWPAN
Monitoring	On the IoT platform 'Nebulae'
Certification	IEC 60068-2-30:2005, IEC 60068-2-14:2009, IEC 60068-2-1:2007, IEC 60068-2-2:2007, IS/IEC 61683:1999-11, IS 16169:2014/IEC 62116:2008, IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-3, IEC 61000-6-4



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