MAJORSINE Power Inverter

Product Features:

- Standard 19”/23”, 2U Rackmount
- 1kVA/800 Watts
- 2 kVA/1600 Watts
- High Efficiency
- Pure Sine Wave Output
- Low EMI/RFI Interference
- Utility Bypass Function
- Intelligent Microprocessor-Based Control
- UL/cUL Approved
- RS-232 Communication
- SNMP Communication Option
- User-Friendly LCD and LED Displays
- Intelligent Software for Power Management
- Internal “Over Temperature” Protection
- Input Reverse Polarity Protection
- Battery High/Low Voltage Protection
- Output Overload Protection

Applications:

- Telecommunications Equipment
- Networking Equipment
- Utility Control
- Fire Alarm Systems
- Building Management Systems
- Mission Critical Inter-Agency Communication

Majorsine Series Utility and Telecom Inverters

Product Overview

Majorsine Inverters feature the integrated utility bypass, and can be cascaded for redundancy. Designed for long Mean Time Between Failure, these inverters provide the dependable AC power that your networks demand.

The compact 2 rack U mounting package makes this model the right selection for limited space applications.

Majorsine Inverters are designed and built for full reliability at any location. These intelligent, dependable inverters provide economical AC power for all your network needs.

Options

SNMP Communication Option.

Remote monitoring is a prime consideration and requirement to manage multiple network elements from a central location. Remote access as easy as; installing the plug-n-play card, configuring your network IP address, and attaching the network interface cable.

Distributed By:

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power conversion dependable solutions

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Specifications

	MAJORSINE1000-24-2U	MAJORSINE1000-48-2U	MAJORSINE2000-48-2U
DC Input			
Voltage	20-30 VDC	40-60 VDC	40-60 VDC
Rated Current	50 Amps	25 Amps	50 Amps
Protection	Fuse and DC Breaker	Fuse and DC Breaker	Fuse and DC Breaker
Efficiency	>85% (full linear load)	>85% (full linear load)	>85% (full linear load)
Output (Backup)			
Capacity	1KVA / 800W	1KVA / 800W	2KVA / 1600W
Voltage	100, 110, 115, 120 VAC	100, 110, 115, 120 VAC	100, 110, 115, 120 VAC
Voltage Regulation	±2%	±2%	±2%
Frequency	50/60Hz ± 0.2Hz	50/60Hz ± 0.2Hz	50/60Hz ± 0.2Hz
Wave Form	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
THD (linear load)	3% 120 V/100%	3% 120 V/100%	3% 120 V/100%
THD (SPS load)	5% 120 V/100%	5% 120 V/100%	5% 120 V/100%
Crest Factor	3:1	3:1	3:1
Receptacles	(4) NEMA 5-15R outlets	(4) NEMA 5-15R outlets	(4) NEMA 5-20R outlets
Utility Power (Bypass)			
Voltage (Nominal)	120 VAC	120 VAC	120 VAC
Frequency	50/60 ± 5 Hz	50/60 ± 5 Hz	50/60 ± 5 Hz
Protection	AC Circuit Breaker	AC Circuit Breaker	AC Circuit Breaker
Interface			
Communication	RS232 / Dry-contact	RS232 / Dry-contact	RS232 / Dry-Contact
LED Display	Inverter ON Overload DC Abnormal Fault	Inverter ON Overload DC Abnormal Fault	Inverter ON Overload DC Abnormal Fault
LCD Display	Inverter ON Output Voltage & Frequency Input Voltage Load Percentage DC Voltage System Model Internal Environmental Temp. Utility status Short circuit Over Temp.	Inverter ON Output Voltage & Frequency Input Voltage Load Percentage DC Voltage System Model Internal Environment Temp. Utility status Short circuit Over Temp.	Inverter On Output Voltage & Frequency Input Voltage Load Percentage DC Voltage System Model Internal Environment Temp. Utility status Short circuit Over Temp.
Protection			
Short	For 1 second; Switch to Bypass, then shutdown	For 1 second; Switch to Bypass, then shutdown	For 1 second; Switch to Bypass, then shutdown
Overload	105-125% for 3 minutes; 126-150% for 3 seconds; >150% for 1 second; Switch to bypass	105-125% for 3 minutes 126-150% for 3 seconds; >150% for 1 second; Switch to bypass	105-125% for 3 minutes 126-150% for 3 seconds >150% for 1 second; Switch to bypass
Temperature	55 ± 5º(Inside the case)	55 ± 5º(Inside the case)	55 ± 5º(Inside the case)
Environment			
Operating Temperature	0º to 50º C	0º to 50º C	0º to 50º C
Storage Temperature	-20º to 70º C	-20º to 70º C	-20º to 70º C
Humidity	0º - 90ºC Relative Humidity (Non-Condensing)	0º - 90ºC Relative Humidity (Non-Condensing)	0º - 90ºC Relative Humidity (Non-Condensing)
Acoustic Noise	46 dBA @ 1 M	46 dBA @ 1 M	46 dBA @ 1 M
Safety			
Safety	UL / cUL	UL / cUL	UL / cUL
EMI / RFI	FCC Class A	FCC Class A	FCC Class A
Mechanical			
Dimensions	17.32”W x 11.81”D x 3.46”H (440x300x88mm) 2U Rackmount	17.32”W x 11.81”D x 3.46”H (440x300x88mm) 2U Rackmount	17.32”W x 11.81”D x 3.46”H (440x300x88mm) 2U Rackmount
Weight	8kg / 17.6lbs	7kg / 15.4 lbs	7kg / 15.4 lbs

Specifications

	MAJORSINE1000-125-2U	MAJORSINE2000-125-2U
DC Input		
Voltage	100-150 VDC	100-150 VDC
Rated Current	10 Amps	20 Amps
Protection	Fuse and DC Breaker	Fuse and DC Breaker
Efficiency	>85% (full linear load)	>85% (full linear load)
Output (Backup)		
Capacity	1KVA / 800W	2KVA / 1600W
Voltage	100, 110, 115, 120 VAC	100, 110, 115, 120 VAC
Voltage Regulation	±2%	±2%
Frequency	50/60Hz ± 0.2Hz	50/60Hz ± 0.2Hz
Wave Form	Pure Sine Wave	Pure Sine Wave
THD (linear load)	3% 120 V/100%	3% 120 V/100%
THD (SPS load)	5% 120 V/100%	5% 120 V/100%
Crest Factor	3:1	3:1
Receptacles	(4) NEMA 5-15 R outlets	(4) NEMA 5-20 R outlets
Utility Power (Bypass)		
Voltage (Nominal)	120 VAC	120 VAC
Frequency	50/60 ± 5 Hz	50/60 ± 5 Hz
Protection	AC Circuit Breaker	AC Circuit Breaker
Interface		
Communication	RS232 / Dry-contact	RS232 / Dry-Contact
LED Display	Inverter ON Overload DC Abnormal Fault	Inverter ON Overload DC Abnormal Fault
LCD Display	Inverter ON Output Voltage & Frequency Input Voltage Load Percentage DC Voltage System Model Internal Environment Temp. Utility status Short circuit Over Temp.	Inverter On Output Voltage & Frequency Input Voltage Load Percentage DC Voltage System Model Internal Environment Temp. Utility status Short circuit Over Temp.
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Temperature	55±5º (Inside the case)	55±5º(Inside the case)
Environment		
Operating Temperature	0º to 50º C	0º to 50º C
Storage Temperature	-20º to 70º C	-20º to 70º C
Humidity	0º - 90ºC Relative Humidity (Non-Condensing)	0º - 90ºC Relative Humidity (Non-Condensing)
Acoustic Noise	46 dBA @ 1 M	46 dBA @ 1 M
Safety		
Safety	UL / cUL	UL / cUL
EMI / RFI	FCC Class A	FCC Class A
Mechanical		
Dimensions	17.32"W x 11.81"D x 3.46"H (440x300x88mm) 2U Rackmount	17.32"W x 11.81"D x 3.46"H (440x300x88mm) 2U Rackmount
Weight	7kg / 15.4 lbs	8kg / 17.6 lbs

Mechanical Drawing