



Model Numbers:

MAJORSINE500-48-1U
MAJORSINE1000-48-1U
MAJORSINE2000-48-1U

Product Features:

- 48V Input
- 500 VA/500 Watts Output
- 1 kVA/1000 Watts Output
- 2 kVA/2000 Watts Output
- 100-120 VAC Range
- Standard 19" 1U Rackmount
- High Efficiency
- Pure Sine Wave Output
- Low EMI/RFI Emissions
- Utility Bypass Function
- Intelligent Microprocessor-Based Control
- Output Overload Protection
- Remote Communication Option

Applications:

- Telecom and Cable Equipment
- Networking Equipment
- Utility Systems Control
- Fire Alarm Systems
- Building Management Systems
- Mission Critical Inter-Agency Communication
- SCADA Networks and Data Equipment

Product Overview

Majorsine Inverters feature the integrated utility bypass pure sine wave from a dc source. Designed for long Mean Time Between Failure, these inverters provide the dependable AC power that your networks demand.

The compact 1U rackmount 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

NMC3 Network Management Card

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



	MAJORSINE 500-48-1U	MAJORSINE 1000-48-1U	MAJORSINE 2000-48-1U
DC Input			
Voltage	40-60 VDC	40-60 VDC	40-60 VDC
Rated Current	14 Amps	28 Amps	55.5 Amps
Protection	Fuse and DC Breaker	Fuse and DC Breaker	Fuse and DC Breaker
Efficiency	>92% (full linear load), 48 VDC I/P, 120 VAC O/P	>92% (full linear load), 48 VDC I/P, 120 VAC O/P	>92% (full linear load), 48 VDC I/P, 120 VAC O/P
AC Output (Load)			
Capacity	500VA / 500W	1kVA / 1000W	2kVA / 2000W
Voltage	110, 115, 120 VAC	110, 115, 120 VAC	110, 115, 120 VAC
Voltage Regulation	±2%	±2%	±2%
Frequency	60Hz ± 0.2Hz	60Hz ± 0.2Hz	60Hz ± 0.2Hz
Wave Form	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
THD (linear load)	<3% 120V/100%	<3% 120V/100%	<3% 120V/100%
THD (SPS load)	<5% 120V/100%	<5% 120V/100%	<5% 120V/100%
Crest Factor	3:1	3:1	3:1
Receptacles	NEMA 5-15R outlets	NEMA 5-15R outlets	NEMA 5-20R outlets
Utility Power (Bypass)			
Voltage (Nominal)	110-130 VAC ± 10% (100-140)	110-130 VAC ± 10% (100-140)	110-130 VAC ± 10% (100-140)
Frequency	60 ± 5Hz	60 ± 5Hz	60 ± 5Hz
Protection	Internally Fused	Internally Fused	Internally Fused
Interface			
Communication	SNMP / Dry-contact	SNMP / Dry-contact	SNMP / Dry-contact
LED Display	Inverter ON Fault (Major/Minor)	Inverter ON Fault (Major/Minor)	Inverter ON Fault (Major/Minor)
LCD Display	Inverter Mode Output Voltage & Frequency Input Voltage Load Wattage DC Voltage System Model Utility status Short circuit Over Temp.	Inverter Mode Output Voltage & Frequency Input Voltage Load Wattage DC Voltage System Model Utility status Short circuit Over Temp.	Inverter Mode Output Voltage & Frequency Input Voltage Load Wattage DC Voltage System Model Utility status Short circuit Over Temp.
	<i>The LCD display provides extensive details about inverter operation, status, and settings.</i>		
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	70° C (Bypass or Shutdown)	70° C (Bypass or Shutdown)	70° C (Bypass or Shutdown)
Environment			
Operating Temperature	0° to 50° C (Full Load) 50° to 70° C (Derate to 50%)	0° to 50° C (Full Load) 50° to 70° C (Derate to 50%)	0° to 50° C (Full Load) 50° to 70° C (Derate to 50%)
Humidity	0° - 93° C Relative Humidity (Non-Condensing)	0° - 93° C Relative Humidity (Non-Condensing)	0° - 93° C Relative Humidity (Non-Condensing)
Acoustic Noise	46 dBA @ 1 M	46 dBA @ 1 M	46 dBA @ 1 M
Safety			
Safety	ETL / cETL IEC62368-1	ETL / cETL IEC62368-1	ETL / cETL IEC62368-1
EMI/RFI	FCC Part 15; Class A / C63.4-2014 IEC61000-6-4	FCC Part 15; Class A / C63.4-2014 IEC61000-6-4	FCC Part 15; Class A / C63.4-2014 IEC61000-6-4
Mechanical			
Dimensions	17.32"W x 14"D x 1.45"H (440x356x44.45mm) 1U Rackmount	17.32"W x 14"D x 1.45"H (440x356x44.45mm) 1U Rackmount	17.32"W x 14"D x 1.45"H (440x356x44.45mm) 1U Rackmount
Weight			
Weight	7kg / 15.4 lbs	7kg / 15.4 lbs	8kg / 17.6 lbs