

Product Features:

- 24, 48, 130 VDC Input
- 1 KVA/800 Watts Output
- 2 KVA/1600 Watts Output
- 100-120 VAC Range
- 208-240 VAC Range
- Standard 19"/23", 2U Rackmount
- Pure Sine Wave Output
- High Efficiency
- Low EMI/RFI Emissions
- Utility Bypass Function
- Intelligent Microprocessor-Based Control
- Output Overload Protection
- RS-232 Communication Port
- SNMP Communication Option
- User-Friendly LCD and LED Displays
- Smart Software for Power Management
- Internal "Over Temperature" Protection
- Input Reverse Polarity Protection
- Battery High/Low Voltage Protection
- UL/cUL Approved (60950)
- CE Approved

Applications:

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

Majorsine Series Telecom and Utility Inverters



Product Overview

Majorsine® Power 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 2U 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 Remote Communication Option:

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.



Locking - Hardwire Adapter:

Reliable locking NEMA 5-15 plug to secure load circuits to the output sockets of the inverter. Heavy-duty design locks the plug in place to prevent disconnecting critical loads.



MAJORSINE Power Inverter

Specifications – 100 to 120 VAC Output Range

| | 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), 24 VDC I/P, 120 VAC O/P | >85% (full linear load), 48 VDC I/P, 120 VAC O/P | >85% (full linear load), 48 VDC I/P, 120 VAC O/P |
| AC Output (Load) | | | |
| 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 5-20 R outlets | (4) NEMA 5-15 R outlets | (4) NEMA 5-20 R 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 | SNMP / RS232 / Dry-contact | SNMP / RS232 / Dry-contact | SNMP / 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 ± 5°(Inside the case) | 55 ± 5°(Inside the case) | 55 ± 5°(Inside the case) |
| Environment | | | |
| Operating Temperature | 0° to 50° C | 0° to 50° C | 0° to 50° C |
| Storage Temperature | -20° to 70° C | -20° to 70° C | -20° to 70° C |
| Humidity | 0° - 90°C Relative Humidity (Non-Condensing) | 0° - 90°C Relative Humidity (Non-Condensing) | 0° - 90°C 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 | 7kg / 15.4lbs | 7kg / 15.4 lbs | 8kg / 17.6 lbs |

MAJORSINE Power Inverter

Specifications – 100 to 120 VAC Output Range

| | 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), 125 VDC I/P, 120 VAC O/P | >85% (full linear load), 125 VDC I/P, 120 VAC O/P |
| AC Output (Load) | | |
| 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) | 5% 120 V/100% | 5% 120 V/100% |
| THD (SPS load) | 3% 120 V/100% | 3% 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 | SNMP / RS232 / Dry-contact | SNMP / 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. |
| Protection | | |
| Short | 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 |
| Temperature | 55±5° (Inside the case) | 55±5°(Inside the case) |
| Environment | | |
| Operating Temperature | 0° to 50° C | 0° to 50° C |
| Storage Temperature | -20° to 70° C | -20° to 70° C |
| Humidity | 0° - 90°C Relative Humidity (Non-Condensing) | 0° - 90°C 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 |

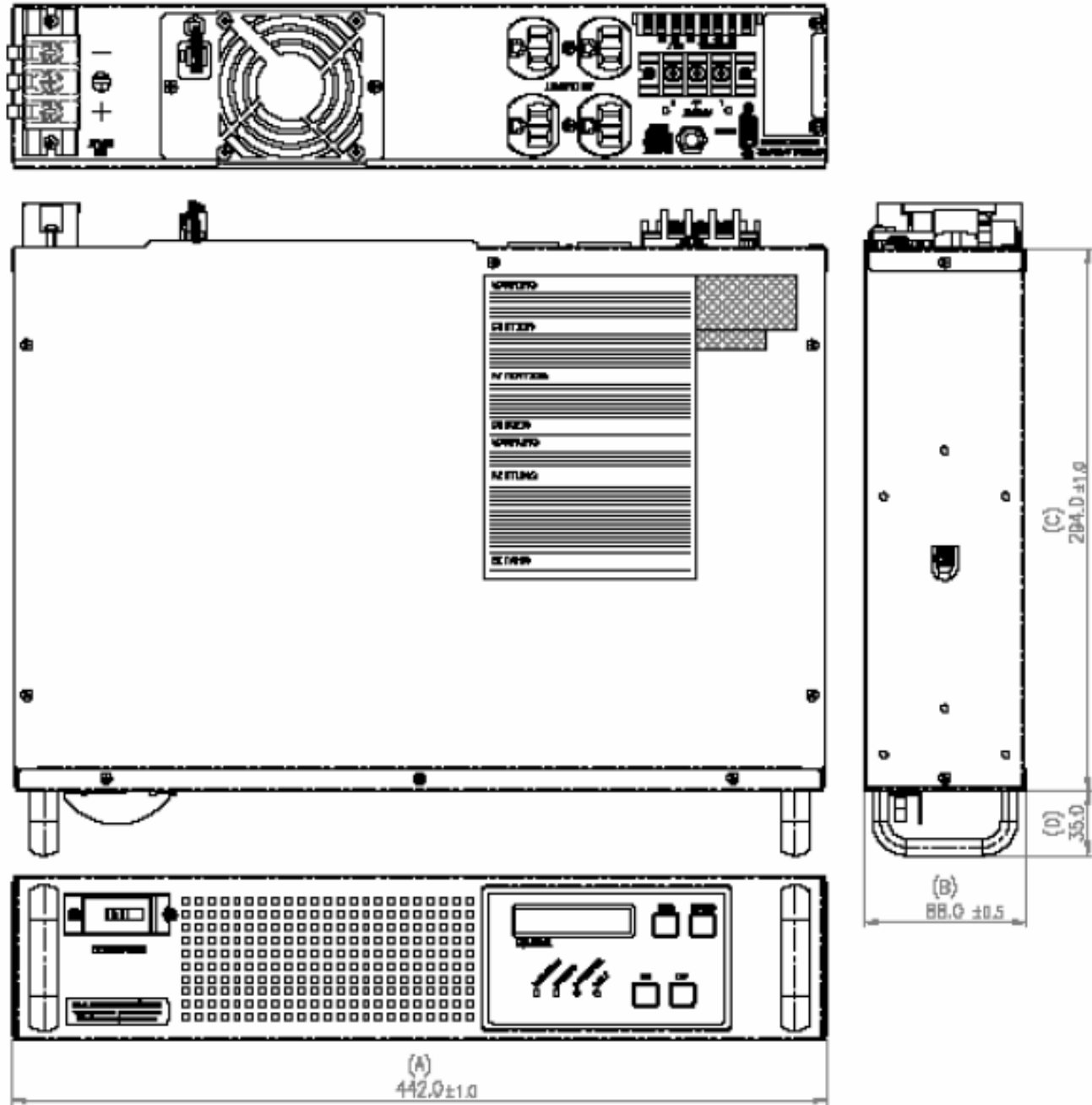
MAJORSINE Power Inverter

Specifications – 208 to 240 VAC Output Range

| | MAJORSINE1000i-48-2U | MAJORSINE2000i-48-2U |
|-------------------------------|--|--|
| DC Input | | |
| Voltage | 40-60 VDC | 40-60 VDC |
| Rated Current | 25 Amps | 50 Amps |
| Protection | Fuse and DC Breaker | Fuse and DC Breaker |
| Efficiency | >85% (full linear load), 48 VDC I/P, 230 VAC O/P | >85% (full linear load), 48 VDC I/P, 230 VAC O/P |
| Output (Backup) | | |
| Capacity | 1KVA / 800W | 2KVA / 1600W |
| Voltage | 208, 220, 230, 240 VAC | 208, 220, 230, 240 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) IEC 320 outlets – C13 | (4) IEC 320 outlets – C13 |
| Utility Power (Bypass) | | |
| Voltage | Nominal 230 VAC | Nominal 230 VAC |
| Frequency | 50/60± 5 Hz | 50/60± 5 Hz |
| Protection | AC Circuit Breaker | AC Circuit Breaker |
| Interface | | |
| Communication | SNMP / RS232 / Dry-contact | SNMP / 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. |
| Protection | | |
| Short | 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 |
| Temperature | 55±5°(Inside the case) | 55±5°(Inside the case) |
| Environment | | |
| Operating Temperature | 0° to 50° C | 0° to 50° C |
| Storage Temperature | -20° to 70° C | -20° to 70° C |
| Humidity | 0° - 90°C Relative Humidity (Non-Condensing) | 0° - 90°C Relative Humidity (Non-Condensing) |
| Acoustic Noise | 46 dBA @ 1 M | 46 dBA @ 1 M |
| Safety | | |
| Safety | CE Approved | CE Approved |
| 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 |

MAJORSINE Power Inverter

Mechanical Drawing



H= 3.50" (88 mm)
W= 17.4" (442 mm)
D= 11.57" (294 mm)

