

# MS Power Inverter Series

## 1 and 2kVA Inverter System

- Standard 19"/23", 2RU rackmount
- 1kVA/800W and 2kVA/1600W
- Pure sine wave output
- Utility bypass function
- UL/cUL approved
- RS-232 communication
- Internal "over temperature" protection
- Input reverse polarity protection
- Output overload protection



MS Power Inverter

### Majorsine Power Inverter

Models	Majorsine1000-24-2U	Majorsine1000-48-2U	Majorsine2000-48-2U
<b>DC Input</b>			
Voltage:	20 to 30Vdc	40 to 60Vdc	40 to 60Vdc
Rated Current:	50A	25A	50A
Protection:	Fuse and DC Breaker	Fuse and DC Breaker	Fuse and DC Breaker
Efficiency:	>85% (full linear load), 24Vdc I/P, 120Vac O/P		
<b>Output (Backup)</b>			
Capacity:	1kVA / 800W	1kVA / 800W	2kVA / 1600W
Voltage:	110, 115, 120, 125Vac	110, 115, 120, 125Vac	110, 115, 120, 125Vac
Voltage Regulation:	±2%	±2%	±2%
Frequency:	50/60Hz ±0.2Hz	50/60Hz ±0.2Hz	50/60Hz ±0.2Hz
Waveform:	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:	(4) NEMA 5-15R outlets	(4) NEMA 5-15R outlets	(4) NEMA 5-20R outlets
<b>Utility Power (Bypass)</b>			
Voltage (Nominal):	120Vac	120Vac	120Vac
Frequency:	60 ±5Hz	60 ±5Hz	60 ±5Hz
Protection:	AC Circuit Breaker	AC Circuit Breaker	AC Circuit Breaker
<b>Interface</b>			
Communication:	RS232 / Dry-contact	RS232 / Dry-contact	RS232 / Dry-Contact
LED Display:	Inverter ON, Overload, DC Abnormal	Inverter ON, Overload, DC Abnormal	Inverter ON, Overload, DC Abnormal
LCD Display:	Inverter ON, Output Voltage and Frequency, Input Voltage, Load Percentage, DC Voltage, System Model, Internal Environment Temp., Utility status, Short circuit, Over Temp.		
<b>Protection</b>			
Short:	For 1 second; Switch to Bypass, then shutdown		
Overload:	105 to 125% for 3 minutes; 126 to 150% for 3 seconds; >150% for 1 second; Switch to bypass		
Temperature:	55° ±5°C (Inside the case) 131° ±41°F	55° ±5°C (Inside the case) 131° ±41°F	55° ±5°C (Inside the case) 131° ±41°F
<b>Environment</b>			
Operating Temperature:	0 to 50°C / 32 to 122°F	0 to 50°C / 32 to 122°F	0 to 50°C / 32 to 122°F
Storage Temperature:	-20 to 70°C / -4 to 158°F	-20 to 70°C / -4 to 158°F	-20 to 70°C / -4 to 158°F
Humidity:	0 to 90°C / 32 to 194°F non-condensing	0 to 90°C / 32 to 194°F non-condensing	0 to 90°C / 32 to 194°F non-condensing
Acoustic Noise:	46dBA @ 1 M	46dBA @ 1 M	46dBA @ 1 M
Safety:	UL / cUL	UL / cUL	UL / cUL
EMI / RFI:	FCC Class A	FCC Class A	FCC Class A
<b>Mechanical</b>			
Dimensions (in/mm):	17.32 x 11.81 x 3.46 / 440 x 300 x 88, 2RU		
Weight (lb/kg):	17.6 / 8	15.4 / 7	15.4 / 7