

MX

Modular Inverter



PRODUCT SPECIFICATIONS

Description

MX

When you need clean, efficient AC power, RIC Electronics offers its MX inverter.

This modular, “hot swappable” inverter system can provide up to 20KW (1PH), 40KW (bi-phase) and 60KW (3PH, 208VAC).

Because of its modular design, MX is capable easily expandable and can provide N+1 redundancy to ensure an unforeseen failure does not take down the critical load.



Technical Specifications

Output Power

| Continuous Power | Surge Power (3 Seconds) | No Load Power | Output Voltage | Output Current | Weight (LBS) |
|------------------|-------------------------|---------------|----------------|----------------|--------------|
| 1000 Watt | 2200 Watts | 20 Watts | 230 +/- 6% | 4.3 | 7.5 |
| 1000 Watt | 2200 Watts | 20 Watts | 120 +/- 6% | 8.6 | 7.5 |
| 1000 Watt | 2200 Watts | 20 Watts | 100 +/- 6% | 10.0 | 7.5 |
| | | | 10.0 7.5 | | |

*10W with X2 option
 **Remote switchable

Input Power

| Model Voltage | Minimum (Typical)** | System (Typical) | Maximum (Typical)** | Typical Efficiency @ Full Power | Peak Efficiency @ 1/3 Power |
|---------------|---------------------|------------------|---------------------|---------------------------------|-----------------------------|
| 12Vdc | 10.4/10.6Vdc* | 13.8Vdc | 16.5Vdc | 85% | 87% |
| 24Vdc | 19/ 21Vdc* | 27.6Vdc | 33Vdc | 87% | 89% |
| 32Vdc | 26.5/ 28Vdc* | 36.8Vdc | 44Vdc | 88% | 90% |
| 48Vdc | 41.5/42.1Vdc* | 55.2Vdc | 62Vdc | 87% | 89% |
| 66Vdc | 57.5/58.5Vdc* | 75.9Vdc | 91.1Vdc | 88% | 90% |
| 108Vdc | 94/ 95Vdc | 125Vdc | 149Vdc | 87% | 90% |

*Indicates typical cut-off voltage/warning buzzer voltage
 ** +/- 3%

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General Specifications



MX

| Conditions | Minimum | Typical | Maximum |
|-----------------|---------|------------|---------|
| Waveform | - | Sinusoidal | - |
| Voltage Output | - 5% | Nominal | +5% |
| Line Regulation | - | 0.1% | 0.5% |
| Load Regulation | - | 0.5% | 1% |
| Distortion | - | 1.5% | 2% |
| Frequency | - 0.1% | Nominal | +0.1% |

Mechanical Specifications

Four case sizes are available; all are: 7" high X 15" deep.

- 19 inch Wide: (includes hardware for rack or shelf mounting)
- 23 inch Wide: (includes hardware for rack or shelf mounting)
- 9.97 inch Wide: (for 1 to 3KW applications: surface mounting only)
- 7 inch Wide: (for 1 or 2KW applications; surface mounting only)

Available in other sizes including metric.

Protection Circuitry

Over Voltage*: Shut off at maximum input voltage, per input conditions. Automatic reset upon fault correction

Under Voltage*: Shut off at minimum input voltage, per input conditions

Thermal*: 105°C internal temperature. Warning buzz 5° C before shut off

Output Short: Unit shuts off (manual reset)

*Automatically reset

Environmental

Temperature: -25° to 40° C full power derated above 40° C. Derate 20% per 10° C

Humidity: 5 to 95% non-condensing

Altitude: -200 to 10k feet full power, derated above 10k ft

Audible Noise: Less than 45dbA

Cooling: Thermo–statically controlled forced air

Finish: painted aluminum

Options

- Maintenance bypass switch
- Static transfer switch (<4 ms)
- Communication options:
 - Modbus TCP
 - SNMP

Warranty

18 Months from date of shipment.