Independence from Power Interruptions

M1500-UPS-PFP
Uninterruptible Power Supply, Voltage Regulator and Power Conditioner

A UPS (Uninterruptible Power Supply) maintains power temporarily to ride out short black-outs or brown-outs preventing lengthy restart sequences. It allows safe shut down for extended black-outs.

RS232 interface and unique, patent pending IR control allows comprehensive management of orderly shut-down.

Voltage Regulation (keeping voltage within nominal operating ranges) prevents equipment lock-ups due to power sags and keeps equipment from heating up (power supplies require more current when voltage is low).

MODEL: M1500-UPS-PFP

• Pure Sine Wave Output
• RS232 Interface with Open Communications Protocol
• Fully Programmable (Software Included)
• Critical Load Management
• Automatic Voltage Regulation
• Enhanced EMI/RFI Noise Filtration
• Learning IR Output Control (Patent Pending)
• Hot-Swappable Batteries

1500 VA Rating
### FEATURES

- **Unsafe Voltage Indicator:** This LED will illuminate to inform the user that an unsafe line voltage is present and that the UPS has switched to battery power. This could be either an over-voltage or under-voltage.

- **Line Fault Indicator:** This LED will illuminate to warn the user that a wiring problem such as a bad/missing ground or reversed wiring exists within the AC receptacle. If illuminated, disconnect all equipment and contact an electrician to ensure outlet is properly wired.

- **Power On Indicator:** This LED is illuminated when the utility condition is normal and the UPS outlets are providing clean, protected power.

- **AVR Indicator:** This indicates that the UPS is operating in automatic voltage regulation mode. When the LED is illuminated continuously, it indicates an input over-voltage and the UPS unit reduces the voltage to the normal operating range. When the LED is flashing, it indicates that the input line voltage is low and that the UPS is increasing voltage to the normal range.

- **Battery Level Indicator:** This is a visual indication of the battery charge. If battery capacity is under 20%, no indicator LED will illuminate and UPS starts beeping (the audible alarm is enabled).

- **Load Level Indicator:** This LED will illuminate to inform the user that an unsafe line voltage is present and that the UPS has switched to battery power. This could be either an over-voltage or under-voltage.

- **Non-Critical-Load Outlets:** Four battery powered, surge protected and AVR outlets for connected equipment insures temporary uninterrupted operation of connected equipment during a power failure.

- **Critical Load Outlets:** Two battery powered, surge protected and AVR outlets for critical load equipment insure temporary uninterrupted operation of connected equipment during a power failure.

- **AVR Indicator:** (V)......Clamping Level....260V
Capacitance..........30pf (approx.)
Suppression Modes...Metallic & Longitudinal
Wires Protected......2 wire/1 pr. (pins 4,5)
Connections.........RJ-11/45 Shared with LAN

### TECHNICAL SPECIFICATIONS

#### AC CIRCUIT PROTECTION & FILTRATION

- **CAPACITY** (VA)..................1500VA
(Watts)..................1000W

- **INPUT**
  - Voltage Range..............88Vac - 147Vac
  - Frequency Range...........47 - 63 Hz

- **OUTPUT**
  - On Battery Output Voltage........Pure Sine Wave at 120VAC +/- 5%
  - On Battery Output Frequency........60 Hz +/- 1%
  - Transfer Time..............4ms

- **PROTECTION & FILTRATION**
  - On Utility......................Over/Under voltage protection
  - On Battery......................Internal Current Limiting
  - Patented Power Management Circuit............Yes
  - Overvoltage Shutoff..............144V ± 8V
  - Undervoltage Shutoff..............90V ± 6V
  - Thermal Fusing....................Yes
  - Protection Modes.............L,N-L,G, N-G
  - Response Time..............< 1 ms
  - Single Pulse Energy Dissipation........1650 Joules
  - EMI/RFI Noise Filtration........50dB (100kHz – 1 MHz)

#### TELEPHONE CIRCUIT

- **Clamping Level**.............260V
- **Capacitance**..............30pf (approx.)
- **Suppression Modes**........Metallic & Longitudinal
- **Wires Protected**...........2 wire/1 pr. (pins 4,5)
- **Connections**..............RJ-11/45 Shared with LAN

#### PHYSICAL

- **Rack Mountable**.............Yes (rack mount kit included)
- **Maximum Dimensions**........17"W x 15.75"D x 4" H w/feet
- **Weight** (lbs.)..............56
- **Outlets**......................6 Total (2 assigned critical load)

#### SHIPPING DIMENSIONS, WEIGHTS AND UPC CODES

- **Single Pack Dimensions**...........19.25"W x 10.25"D x 18.5"H
- **Single Pack Weight**..............65 lbs
- **Single Unit UPC**..................0 50616-00836 5
- **Master Pack Dimensions**...........19.75"W x 10.75"D x 19.25"H
- **Master Pack Qty.**...............1 Unit
- **Master Pack Weight**..............65 lbs
- **Master Pack UPC**.................Same as Single Unit UPC

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**Model:** M1500-UPS-PFP

**UL Listed**

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- **Master Pack Weight**..............65 lbs
- **Master Pack UPC**.................Same as Single Unit UPC