

Model # MU6000RM3U

Smart Online double conversion Technology, 1-Ph, 200-240V, 50/60Hz, 6KVA/6KW with Dual bypass modes

Product Description

Magnizon MU6000RM3U 6000VA / 6000 watt Smart online, double-conversion UPS system offers complete power protection for critical applications. True online, double-conversion technology supports the critical loads with zero transfer time(0mSec), suitable for advanced networking applications. Fault-tolerant Static-bypass prevents unexpected service interruptions during UPS overload or internal fault conditions. With built-in manual bypass switch enables hot-swappable replacement of entire UPS power module with zero down time to connected equipment. Elegant LCD display with vast scope of monitoring and setting up of various paraments make UPS tailored for each specific application.



Rear view

Front View

With Battery pack

Key Features

- Magnizon MU6000RM3U 6KVA/6KW smart on-line, double-conversion UPS system in 6U total rack/tower configuration (3U UPS power module and 3U external battery pack)
- Maintains full-time pure sine wave output within 2% of selectable 220/230/240V nominal during brownouts as low 110V and over voltages as high as 300V
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- Online double conversion technology With advanced DSP control
- Wide input voltage range(110~300VAC) can adapt to different power grid environment
- DC start (cold start) function
- Input PFC filters
- Built-in static bypass and manual bypass switches
- Parallel port to connect up to 3nos of 6KVA
- Input power factor 1.0 and Unity Output power factor

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- Strong over load capacity
- Supporting rack/tower structure, high power density saving space
- Built-in protections: Over voltage, Over load, Over current, Battery overcharge, Battery deep discharge protection, battery low voltage protection
- LCD display and LED indicator show detailed UPS status and parameters
- Friendly man-machine interface, Simple setting Output Voltage, Frequency parameter and Bypass function on the display
- Lightning, surge, short -circuit protection
- Smart RS232 communication with monitoring software
- Full-time active power conditioning provides clean, continuous dual-conversion AC output free of voltage fluctuations, power interruptions and line noise
- Double-conversion operation converts raw input from AC to DC, then resynthesizes output power back to perfect sine wave AC with enhanced protection from harmonic distortion, fast electrical impulses and other hard-to-solve power problems not addressed by other UPS types
- Supports 50/60Hz operation for worldwide frequency compatibility
- Expandable runtime is supported with optional BP192V9RM3U or any 192V battery DC bus external battery packs
- Intelligent battery management system with temperature-compensated charging with advanced 4-stage battery charging algorithm extends battery life
- Battery independent restart ensures automatic UPS power-up without user interaction after lengthy power outages, even when batteries are expired and require replacement
- Rack mount and tower mount kits included for both Battery pack and UPS module
- Adjustable telescopic rail kits suits any depth of the rack
- LED / LCD display panel rotates for viewing in rackmount or tower configurations
- Network-grade AC surge and noise suppression
- External battery packs are field replaceable and hot swappable

Package includes:

- MU6000RM3U , 6KVA 3U power module
- BP192V9RM3U, 3U external battery pack
- Battery connection cables with connectors
- Four post compatible, telescopic adjustable rack rail kit -4 sets (2 for UPS and 2 for battery pack)
- Tower stands for upright tower configuration
- RS232 cabling and CD
- User manual

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Specifications:

| Model no | MU6000RM3U |
|---|--|
| Capacity | 6000VA/6000W |
| INPUT DATA | |
| Rated input current (Maximum Load) | 51A (220V), 48.8A (230V), 46.8A (240V) |
| Nominal Input Voltage(s) Supported | 220V AC; 230V AC; 240V AC |
| UPS Input Connection Type | Hardwire |
| UPS Input Connection Description | 230/220/240V (L,N,PE) input wiring, 50/60Hz |
| Recommended Electrical Service | 60A |
| Input Phase | Single-Phase, 3W system (L,N,PE) |
| OUTPUT DATA | |
| Output Volt Amp Capacity (VA) | 6000 |
| Output kVA Capacity (kVA) | 6 |
| Output Watt Capacity (Watts) | 6000 |
| Output kW Capacity (kW) | 6 |
| Output Capacity Details | Supports up to 110% load continuously in double conversion mode, 111 to 125% for 12minute, 126% to 150% for 55 seconds; Loads over 150% trigger immediate bypass mode operation to support loads directly from mains power; Double conversion mode is automatically restored as load levels are reduced to 95% or less |
| Power Factor | 1.0 |
| Crest Factor | 3:01 |
| Nominal Output Voltage(s) Supported | 220V; 230V; 240V |
| Nominal Voltage Details | Voltage selection via front panel LCD interface |
| Frequency Compatibility | 50 / 60 Hz; Supports 50 to 60 Hz and 60 to 50 Hz conversion |
| Output Voltage Regulation (Line Mode) | +/- 2% |
| Output Voltage Regulation (Economy Line Mode) | +/- 10% |
| Output Voltage Regulation (Battery Mode) | +/- 2% |
| Output Receptacle Details | International 220/230/240V (L,N,PE) hardwire output and 2xIEC C13 |
| Output AC Waveform (AC Mode) | Pure Sine wave |
| Output AC Waveform (Battery Mode) | Pure Sine wave |
| VOLTAGE REGULATIONS & SURGE DATA | |
| Voltage Regulation Description | 2% output voltage regulation in standard online, double-conversion mode |
| Overvoltage Correction | Corrects over voltages up to 300V |
| Undervoltage Correction | Corrects under voltages as low as 110V |
| UPS AC Suppression Joule Rating | 2680 |
| UPS AC Suppression Response Time | Instantaneous |
| EMI / RFI AC Noise Suppression | Yes |
| BATTERY DETAILS | |
| Full Load Runtime (min.) | 7.6 min. (6000w) |
| Half Load Runtime (min.) | 16.5 min. (3000w) |

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|---|---|
| Expandable Battery Runtime | Supports extended runtime with optional external battery packs |
| External Battery Pack Compatibility | BP192V9RT3U or any equivalent 192V DC bus battery bank |
| DC System Voltage (VDC) | 192V |
| Battery charger rating | 5Amp |
| Battery Recharge Rate (Included Batteries) | Less than 5 hours from 10% to 90% (typical, full load discharge) |
| Battery Replacement Description | Hot-swappable, user replaceable external battery packs |
| Expandable Runtime | Yes, with additional battery packs |
| Transfer Time | 0mSec in online, double-conversion mode |
| Low Voltage Transfer to Battery Power | 110V |
| High Voltage Transfer to Battery Power | 300V |
| USER INTERFACE AND CONTROLS | |
| Front Panel LCD Display | Selectable LCD display with scroll and selection buttons enables UPS control and detailed monitoring options; LED/LCD panel rotates for viewing in rack/tower formats |
| Switches | 2 Switches control off/on power status and alarm-cancel/self-test operation; 2 additional switches support set and execute scrolling LCD functions; |
| Alarm Cancel Operation | Alarm cancel switch |
| Audible Alarm | Unique audible alarms for all major UPS, environmental and power conditions (see manual) |
| LED Indicators | LEDs indicate line power, online mode, economy/bypass mode, on-battery, charger and AC output status; LCD screen offers additional information and control options |
| PHYSICAL DETAILS | |
| Installation Form Factors Supported with Included Accessories | 4 post 19 inch rackmount |
| Included Mounting Accessory Description | 2 sets of adjustable 4 post rack rails included; 2-9U STAND tower kit included |
| Primary Form Factor | Rackmount or tower mount |
| UPS Power Module Dimensions (HWD / cm) | 13.4x 44.0 x 52.0 |
| Rack Height | 6U |
| Maximum Device Depth (cm) | 82.55 |
| Minimum Required Rack Depth (cm) | 95.25 |
| UPS Power Module Weight (kg) | 25 |
| UPS Dimensions Details | Includes 3U UPS/power module and 3U external battery pack |
| Included Battery Pack Weight (kg) | 71.99 |
| Shipping Dimensions (HWD / cm) | 78.74 x 66.04 x 104.14 |
| Shipping Weight (kg) including battery pack | 114kgs |
| Cooling Method | Smart Fan with variable speed based on temperature |
| UPS Housing Material | Steel |
| Maximum Device Depth (mm) | 622 |
| Primary UPS Height (mm) | 134 (3U) |
| Primary UPS Width (mm) | 440 |
| Primary UPS Depth (mm) | 520 |
| ENVIRONMENTAL | |
| Operating Temperature Range | +32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius |
| Storage Temperature Range | +5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius |
| Relative Humidity | 0 to 95%, non-condensing |

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| AC Mode BTU / Hr. (Full Load) | 3200 |
|---|--|
| AC Economy Mode BTU / Hr. (Full Load) | 1160 |
| Battery Mode BTU / Hr. (Full Load) | 4100 |
| AC Mode Efficiency Rating (100% Load) | 94% |
| AC Economy Mode Efficiency Rating-full Load | 98% |
| Operating Elevation (ft.) | 0-3000m (0 to 10,000 ft.) |
| Audible Noise | 53 dBA at front side 1 meter |
| Operating Elevation (m) | 0-3000 m |
| COMMUNICATIONS | |
| Communications Interface | RS232 Serial; Slot for SNMP/Web interface |
| Network Management Cards | snmp-up1 |
| Software compatibility | Windows family all versions, Linux, Sun Network OS, IBM Aix, Compaq Tru64 SGI IRIX, FreeBSD, HP-UX and MAC |
| UPS monitoring Software | Supplied along with UPS. Optional SNMP card with web based available on request |
| Communications Cable | DB9 serial |
| CERTIFICATIONS & WARRANTY | |
| UPS Certifications | CE, EN/IEC 62040-1:2008, EN/IEC 62040-2:2006, EN/IEC 61000-3-3:2013, EN/IEC 61000-3-2:2014 |
| UPS Quality standards | ISO9001:2015, ISO14001:2015, RoHs |
| Product Warranty Period (Worldwide) | 2-Years limited warranty |