



# AC-UPS-O2000-R Datasheet



## Features

- Rack/Tower convertible design
- Online double conversion with full digital control
- Wide input voltage range:110~300Vac
- Input power factor 0.99 with PFC
- Selectable output voltage: 208/220/230/240Vac
- Smart charger design for optimized battery performance
- Maximum charging current can be expanded to 12A (Long run unit)
- Emergency power off function (EPO)
- ECO mode operation for energy saving
- Generator compatible
- Hot-Swappable battery design
- Cold start
- Intelligent fan speed regulation
- Load segment settable (Optional)
- Versatile LCD human-computer interface
- Multiple communication interface:RS232 (USB/EPO/Relay card SNMP card optional)
- Multiple protection function:short-circuit,overload,overheat, battery overcharge and overdischarge,output low voltage and fan fault alarm



Colourful LCD



Gray LCD



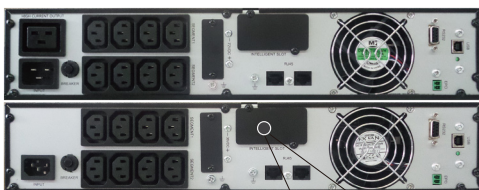
Blue LCD



Battery cabinet (Optional)



Optimized battery configuration 7Ah/9Ah (12V)



Optional socket

Relay card

SNMP



Multifunctional bracket



The LCD panel can be rotated



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## Technical Specifications:

| MODEL                      | MP RT 1k H  | MP RT 1k S       | MP RT 2k H       | MP RT 2k S       | MP RT 3k H       | MP RT 3k S   |
|----------------------------|---|------------------|------------------|------------------|------------------|--------------|
| Capacity                   | 1000VA / 900W   |                  | 2000VA / 1800W   |                  | 3000VA / 2700W   |              |
| <b>INPUT</b>               |   |                  |                  |                  |                  |              |
| Nominal voltage            | 208/220/230/240Vac  |                  |                  |                  |                  |              |
| Input voltage range        | 110~300Vac (176~280Vac @ 100% load)   |                  |                  |                  |                  |              |
| Power factor               | ≥0.99   |                  |                  |                  |                  |              |
| <b>FREQUENCY</b>           |   |                  |                  |                  |                  |              |
| Frequency range            | 40~70Hz (50/60Hz Auto-Sensing)  |                  |                  |                  |                  |              |
| <b>OUTPUT</b>              |   |                  |                  |                  |                  |              |
| Output voltage             | 208/220/230/240Vac  |                  |                  |                  |                  |              |
| Voltage regulation         | ± 1%  |                  |                  |                  |                  |              |
| Power factor               | 0.9   |                  |                  |                  |                  |              |
| Output frequency           | 46~54Hz or 56~64Hz<br>(50/60 ± 0.1%)Hz  |                  |                  |                  |                  |              |
| Crest factor               | 3:1   |                  |                  |                  |                  |              |
| Harmonic distortion (THDv) | ≤3% Linear load<br>≤5% Non linear load  |                  |                  |                  |                  |              |
| Transfer time              | 0ms<br>4ms (Typical)  |                  |                  |                  |                  |              |
| Output waveform            | Pure Sinewave   |                  |                  |                  |                  |              |
| <b>EFFICIENCY</b>          |   |                  |                  |                  |                  |              |
| AC mode                    | 89%   |                  | 91%              |                  | 92%              |              |
| Battery mode               | 85%   |                  | 87%              |                  | 88%              |              |
| <b>BATTERY</b>             |   |                  |                  |                  |                  |              |
| Battery number             | 2   | 3                | 2                | 3                | 4                | 6            |
| Capacity (Standard unit)   | 9Ah/12V (7Ah/12V optional)  |                  |                  |                  |                  |              |
| Typical recharging time    | 4 hours (to 90% of full capacity)   |                  |                  |                  |                  |              |
| Charging voltage           | 27.4Vdc ± 1%  | 41.1Vdc ± 1%     | 27.4Vdc ± 1%     | 41.1Vdc ± 1%     | 54.8Vdc ± 1%     | 82.2Vdc ± 1% |
| Charging current (Max.)    | 6A/12A  | 1A               | 6A/12A           | 1A               | 6A/12A           | 1A           |
| <b>INDICATORS</b>          |   |                  |                  |                  |                  |              |
| LED display                | Line mode, Bat. mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault  |                  |                  |                  |                  |              |
| LCD display                | Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature & Remaining battery backup time |                  |                  |                  |                  |              |
| <b>ALARM</b>               |   |                  |                  |                  |                  |              |
| Battery mode               | Beeping every 4 seconds   |                  |                  |                  |                  |              |
| Battery low                | Beeping every second  |                  |                  |                  |                  |              |
| Overload                   | Beeping twice every second  |                  |                  |                  |                  |              |
| Fault                      | Continuously beeping  |                  |                  |                  |                  |              |
| <b>PHYSICAL</b>            |   |                  |                  |                  |                  |              |
| Dimension W x D x H (mm)   | 440 x 325 x 86.5  | 440 x 460 x 86.5 | 440 x 600 x 86.5 | 440 x 460 x 86.5 | 440 x 600 x 86.5 |              |
| Net weight (kg)            | 5.6   | 11.3             | 14               | 10.5             | 19.5             | 25           |
| <b>ENVIRONMENT</b>         |   |                  |                  |                  |                  |              |
| Operating temperature      | 0°C~40°C  |                  |                  |                  |                  |              |
| Storage temperature        | -25°C~55°C  |                  |                  |                  |                  |              |
| Humidity range             | 20~95%RH @ 0~40°C (Non condensing)  |                  |                  |                  |                  |              |
| Altitude                   | <1500m, derating required when >1500m   |                  |                  |                  |                  |              |
| Noise level                | <50dB at 1 Meter  |                  |                  |                  |                  |              |
| <b>STANDARDS</b>           |   |                  |                  |                  |                  |              |
| Safety                     | IEC/EN62040-1, IEC/EN62477-1  |                  |                  |                  |                  |              |
| EMC                        | IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8   |                  |                  |                  |                  |              |

Specifications are subject to change without prior notice.  
When output voltage is 208Vac, need to derate to 80% of the unit capacity.



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## MP BR 1–3kVA battery pack specification

| MODEL                           | MP BR04024C  | MP BR06036C | MP BR08048C      | MP BR12072C      | MP BR08096C      |
|---------------------------------|--|-------------|------------------|------------------|------------------|
| <b>BATTERY SYSTEM</b>           |  |             |                  |                  |                  |
| Battery type                    | VRLA (Lead acid maintenance free battery)                      |             |                  |                  |                  |
| Typical battery recharging time | 6~8 hours (to 90% of full capacity)                            |             |                  |                  |                  |
| Typical battery life            | 3~5 years, depend on discharging cycle and ambient temperature |             |                  |                  |                  |
| System voltage                  | 24Vdc  | 36Vdc       | 48Vdc            | 72Vdc            | 96Vdc            |
| Charging current (Max.)         | 1.4A   |             |                  |                  |                  |
| Battery quantity                | 4  | 6           | 8                | 12               | 8                |
| Capacity                        | 9Ah/12V (7Ah/12V optional)                                     |             |                  |                  |                  |
| <b>PHYSICAL</b>                 |  |             |                  |                  |                  |
| Dimension W x D x H (mm)        | 440 x 430 x 86.5   |             | 440 x 550 x 86.5 | 440 x 710 x 86.5 | 440 x 550 x 86.5 |
| Net weight (kg)                 | 17.4   | 22.5        | 31.5             | 44               | 31.5             |
| <b>ENVIRONMENT</b>              |  |             |                  |                  |                  |
| Safety                          | CE   |             |                  |                  |                  |
| Operating environment           | 0°C~40°C   |             |                  |                  |                  |
| Relative humidity               | 0~95% (Non condensing)   |             |                  |                  |                  |
| Noise level                     | <40dB at 1 Meter   |             |                  |                  |                  |

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Remark: MP BR08048C "MP" means series; "BR" means Battery Rack; "08" means battery number inside the Rack; "048" means the battery system voltage; "C" means the Rack coming with charger.