

# Single Phase On-Line UPS

1kVA – 10kVA



1kVA



2kVA – 3kVA



6kVA – 10kVA

## FEATURES

- **High-Frequency Double Conversion Online with DSP Control**

Experience top-tier performance with our high-frequency double conversion online UPS, featuring advanced DSP control for optimal power management.

- **Up to 95.5% High Efficiency for Energy Conservation**

Achieve energy conservation with our UPS's impressive efficiency of up to 95.5%, ensuring a greener and more cost-effective power solution.

- **Supply Utility Power in the Event of Overload or Fault**

Ensuring continuous power supply, our UPS seamlessly switches to utility power in the event of an overload or fault, preventing disruptions to your critical systems.

- **Enhanced Application Availability**

Correct poor frequency and voltage conditions to guarantee higher application availability, providing a stable power environment for your connected loads.

- **Real-time Notification of Power Conditions**

Stay informed with real-time notifications about changes in utility power and UPS power conditions, empowering you to take prompt and informed action.

- **Temporary Battery Power During Outages**

Rely on our UPS to provide temporary battery power when utility power is unavailable, ensuring uninterrupted operation during unexpected outages.

- **Intuitive Control Panel for Quick Status Understanding**

Easily monitor unit and power status with our user-friendly control panel, offering quick insights into the health of your UPS.

- **Management via Serial Interface Ports**

Take control of your UPS through convenient serial interface ports, allowing for seamless management and configuration.

- **Support for Economic Operation Mode**

Optimize energy usage with our UPS's economic operation mode, contributing to energy-saving initiatives without compromising performance.

- **High Output Power Factor at 1.0PF**

Benefit from a high output power factor of 1.0PF, ensuring efficient power delivery and compatibility with a variety of loads.

- **Easy Recovery from Overloads**

Our UPS is designed for easy recovery from overloads, minimizing downtime and maintaining continuous operation.

- **Automatic Self-Test**

Ensure the reliability of your UPS with automatic self-tests, identifying and addressing potential issues before they impact performance.

- **Intelligent Battery Management**

Experience enhanced battery life and reliability with intelligent battery management, ensuring your UPS is always ready when you need it.

- **Wide Input Voltage Range**

Our UPS boasts a wide input voltage range, providing flexibility and adaptability to various power input conditions.

## SPECIFICATIONS

| Model                      | MR-US1KRT-H   | MR-US2KRT-H  | MR-US3KRT-H  |
|----------------------------|---|--------------|--------------|
| Rated Capacity             | 1kVA / 1kW  | 2kVA / 2kW   | 3kVA / 3kW   |
| Topology                   | Double-conversion On-Line   |              |              |
| Output                     |   |              |              |
| Output Voltage             | 208 / 220 / 230 / 240VAC  |              |              |
| Output Frequency           | 50 / 60Hz ± 0.1 %   |              |              |
| Output Harmonic Distortion | ≤3% THD (linear load), ≤5% THD (non-linear load)  |              |              |
| Output Power Factor        | 1.0   |              |              |
| Switching Time             | AC Mode to Battery Mode 0ms, Inverter to Bypass 4ms (Typical)                                     |              |              |
| Waveform Type              | Pure Sine wave  |              |              |
| Input                      |   |              |              |
| Rated Input Voltage        | 208 / 220 / 230 / 240VAC  |              |              |
| Input Voltage Range        | 110 – 300VAC, 110 – 176VAC, 280 – 300VAC (power limited)  |              |              |
| Input Frequency            | 50 / 60 ± 6Hz (Default), ±10HZ (Adjustable)   |              |              |
| Input Power Factor         | ≥0.99   |              |              |
| Full Load Efficiency       |   |              |              |
| AC Mode                    | 94.5%@220VAC  | 95.5%@220VAC | 95.5%@220VAC |
| Battery Mode               | 89.5%@36VDC   | 91.5%@72VDC  | 91.5%@96VDC  |
| Battery                    |   |              |              |
| Battery Type               | Lead acid battery   |              |              |
| Battery Voltage            | 36V   | 72V          | 96V          |
| Charging Current           | 1.0A  |              |              |
| Physical                   |   |              |              |
| Dimension, D*W*H (mm)      | 438 * 88 * 385  |              |              |
| Net weight (kg)            | 9.5   | 14.6         | 20.2         |
| Communication Interface    | RS232, USB, EPO   |              |              |
| Environment                |   |              |              |
| Operating Temperature      | 0°C – 40°C  |              |              |
| Storage Temperature        | -15°C – 60°C (Battery:0°C – 40°C)   |              |              |
| Relative Humidity          | 20 – 95% (non-condensing)   |              |              |
| Audible Noise              | Less than 50dB (1 meter from surface)   |              |              |
| Standard and Approvals     |   |              |              |
| Safety                     | IEC / EN62040-1, IEC / EN60950-1  |              |              |
| 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 notice, and all product drawings are for reference only. Consult MARSRIVA for the latest design and specifications.

## SPECIFICATIONS

| Model                      | MR-US6KRT-H   | MR-US10KRT-H |
|----------------------------|---|--------------|
| Rated Capacity             | 6kVA / 6kW  | 10kVA / 10kW |
| Topology                   | Double-conversion On-Line   |              |
| Output                     |   |              |
| Output Voltage             | 208 / 220 / 230 / 240VAC  |              |
| Output Frequency           | 50 / 60Hz ± 0.1 %   |              |
| Output Harmonic Distortion | ≤2% THD(linear load), ≤5% THD(non-linear load)  |              |
| Output Power Factor        | 1.0   |              |
| Switching Time             | 0ms.ECO Mode to Battery Mode 2ms  |              |
| Waveform Type              | Pure Sine wave  |              |
| Input                      |   |              |
| Rated Input Voltage        | 208 / 220 / 230 / 240VAC  |              |
| Input Voltage Range        | 110 – 300VAC, 110 – 176VAC, 276 – 300VAC (power limited)  |              |
| Input Frequency            | 50 / 60 ± 6Hz(Default), ±10HZ(Adjustable)   |              |
| Input Power Factor         | ≥0.99   |              |
| Full Load Efficiency       |   |              |
| AC Mode                    | Full load efficiency 95%, Maximum efficiency 95.5%  |              |
| Battery Mode               | Full load efficiency 94.8%(20pcs batteries), Maximum efficiency 95.3%                             |              |
| Battery                    |   |              |
| Battery Type               | Lead acid battery   |              |
| Battery Voltage            | 192V, 240V (optional)   |              |
| Charging Current           | 1.0A  |              |
| Physical                   |   |              |
| Dimension, D*W*H (mm)      | 438*88*385  |              |
| Net weight (kg)            | 8.7   | 9.5          |
| Communication Interface    | RS232, USB, EPO, SNMP, Dry-contact, Maintenance Connector   |              |
| Environment                |   |              |
| Operating Temperature      | 0°C – 40°C  |              |
| Storage Temperature        | -15°C – 60°C (Battery:0°C – 40°C)   |              |
| Relative Humidity          | 20 – 95% (non-condensing)   |              |
| Audible Noise              | Less than 50dB (1 meter from surface)   |              |
| Standard and Approvals     |   |              |
| Safety                     | IEC / EN62040-1, IEC / EN60950-1  |              |
| EMC                        | IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8 |              |

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