

# Single Phase On-Line UPS

1kVA – 3kVA



Front Panel



Rear Panel



1kVA



2kVA – 3kVA

## 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	MR-US2KRT	MR-US3KRT
<b>Rated Capacity</b>	1kVA / 1kW	2kVA / 2kW	3kVA / 3kW
<b>Topology</b>	Double-conversion On-Line		
<b>Output</b>			
Output Voltage	208 / 220 / 230 / 240VAC		
Output Frequency	50 / 60Hz $\pm$ 0.1 %		
Output Harmonic Distortion	$\leq$ 3% THD (linear load), $\leq$ 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		
<b>Input</b>			
Rated Input Voltage	208 / 220 / 230 / 240VAC		
Input Voltage Range	110 – 300VAC, 110 – 176VAC, 280 – 300VAC (power limited)		
Input Frequency	50 / 60 $\pm$ 6Hz (Default), $\pm$ 10HZ (Adjustable)		
Input Power Factor	$\geq$ 0.99		
<b>Full Load Efficiency</b>			
AC Mode	94.5%@220VAC	95.5%@220VAC	95.5%@220VAC
Battery Mode	89.5%@36VDC	91.5%@72VDC	91.5%@96VDC
<b>Battery</b>			
Battery Type	Lead acid battery		
Battery Quantity	12V / 7Ah*2	12V / 7Ah*4	12V / 7Ah*6
Charging Current	1.0A		
Typical Recharge Time	4 - 5 hours recover to 90% capacity		
<b>Physical</b>			
Dimension, D*W*H (mm)	438 * 88 * 385		
Net weight (kg)	9.5	14.6	20.2
Communication Interface	RS232, USB, EPO		
<b>Environment</b>			
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)		
<b>Standard and Approvals</b>			
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.