

# Smart On-Line UPS

## 1KVA~10KVA

MARSRIVA Smart On-Line UPS offers high-density, genuine double-conversion online power protection tailored for servers, data networks, and medical labs, among other applications. With cutting-edge technology, the UPS achieves an impressive efficiency of up to 95.5% when operating in AC mode. Supporting a wide range of loads from 1KVA to 10KVA, our UPS is versatile and adaptable.

In addition to UPS models equipped with batteries for short backup times, our long-run configurations cater to business-critical systems that demand extended runtimes in hours. These long-run models can be customized with compatible battery packs to meet stringent runtime requirements.



## 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-US1KA	MR-US2KA	MR-US3KA	MR-US6KA	MR-US10KA
<b>Rated Capacity</b>	1KVA / 1KW	2KVA / 2KW	3KVA / 3KW	6KVA / 6KW	10KVA / 10KW
<b>Topology</b>	Double-conversion On-Line				
<b>Output</b>					
Output voltage	100 / 110 / 115 / 120 / 127VAC			104 / 110 / 115 / 120VAC or 208 / 220 / 230 / 240VAC	
Output frequency	50 / 60Hz $\pm$ 0.1 %				
Output Harmonic distortion	$\leq$ 2% THD(linear load), $\leq$ 4% THD(non-linear load)			$\leq$ 2% 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)			0ms.ECO Mode to Battery Mode 2ms	
Waveform type	Pure Sine wave				
<b>Input</b>					
Rated input voltage	100 / 110 / 115 / 120 / 127VAC			208 / 220 / 230 / 240VAC	
Input voltage range	110-300VAC, 110-176VAC, 280-300VAC (power limited)			110-300VAC, 110-176VAC, 276-300VAC(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	93.5%@110VAC	94.5%@110VAC	94.5%@110VAC	Full load efficiency 95%, Maximum efficiency 95.5%	
Battery Mode	90.5%@36VDC	93.5%@72VDC	93.5%@96VDC	Full load efficiency 94.8%(20pcs batteries), Maximum efficiency 95.3%	
<b>Battery</b>					
Battery Type	Lead acid battery				
Battery Quantity	12V / 7Ah*2	12V / 7Ah*4	12V / 7Ah*6	12V / 7Ah*16	12V / 7Ah*16
Charging Current	1.0A				
Typical recharge time	4 - 5 hours recover to 90% capacity			7 - 9 hours recover to 90% capacity	
<b>Physical</b>					
Dimension, D*W*H (mm)	345*144*225	395*190*325		460*200*628	
Net weight (kg)	9	17	21.4	42.5	61.5
Communication Interface	RS232, USB, EPO			RS232, USB, EPO, SNMP, Dry-contact, Maintenance Connector	
<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.