

# Single Phase On-Line UPS

1KVA – 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-US1KA-H	MR-US2KA-H	MR-US3KA-H
<b>Rated Capacity</b>	<b>1kVA / 1kW</b>	<b>2kVA / 2kW</b>	<b>3kVA / 3kW</b>
<b>Output</b>			
Output Voltage	100 / 110 / 115 / 120 / 127VAC		
Output Frequency	50 / 60Hz $\pm$ 0.1 %		
Output Harmonic Distortion	$\leq$ 2% THD(linear load), $\leq$ 4% THD(non-linear load)		
Output Power Factor	1.0		
Switching Time	AC Mode to Battery Mode 0ms, Inverter to Bypass 4ms(Typical)		
UPS Type	Double-conversion On-Line		
Waveform Type	Pure Sine wav		
<b>Input</b>			
Rated Input Voltage	100 / 110 / 115 / 120 / 127VAC		
Input Voltage Range	55 – 150VAC, 55 – 85VAC and 140 – 150VAC (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	Full load 93.5%@110VAC	Full load 94.5%@110VAC	Full load 94.5%@110VAC
Battery Mode	Full load 90.5%@36VDC	Full load 93.5%@72VDC	Full load 93.5%@96VDC
<b>Battery</b>			
Battery Type	Lead-acid battery		
Battery Voltage	36V	72V	96V
Charging Current	5A		
<b>Physical</b>			
Form Factor	Tower		
Dimension, D*W*H (mm)	392*145*225	395*190*325	
Net Weight (kg)	5	7	7.5
Communication Interface	RS232, USB, EPO		
<b>Communications &amp; Management</b>			
Control Panel	Multifunction LCD status and control console		
Alarm	Alarm every 8 seconds in battery mode		
	Alarm for low battery every second		
	Alarm on overload every second		
Protection	Short circuit, Overload , Overcharge and Overdischarge protection		
<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.

## SPECIFICATIONS

Model	MR-US6KA-H	MR-US10KA-H
Rated Capacity	6kVA / 6kW	10kVA / 10kW
<b>Output</b>		
Output Voltage	104 / 110 / 115 / 120VAC or 208 / 220 / 230 / 240VAC	
Output Frequency	50 / 60Hz $\pm$ 0.1 %	
Output Harmonic Distortion	$\leq$ 2% THD(linear load), $\leq$ 5% THD(non-linear load)	
Output Power Factor	1.0	
Switching Time	0ms.ECO Mode to Battery Mode 2ms	
UPS Type	Double-conversion On-Line	
Waveform Type	Pure Sine wave	
<b>Input</b>		
Rated Input Voltage	208 / 220 / 230 / 240VAC	
Input Voltage Range	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	Full load efficiency 95%, Maximum efficiency 95.5%	
Battery Mode	Full load efficiency 94.8%(20pcs batteries), Maximum efficiency 95.3%	
<b>Battery</b>		
Battery Type	Lead-acid battery	
Battery Voltage	192V, 240V (optional)	
Charging Current	5A	
<b>Physical</b>		
Form Factor	Tower	
Dimension, D*W*H (mm)	395*190*325	
Net Weight (kg)	8.9	10
Communication Interface	RS232, USB, EPO, SNMP, Dry-contact, Maintenance Connector	
<b>Communications &amp; Management</b>		
Control Panel	Multifunction LCD status and control console	
Alarm	Alarm every 8 seconds in battery mode	
	Alarm for low battery every second	
	Alarm on overload every second	
Protection	Short circuit, Overload , Overcharge and Overdischarge protection	
<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	

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