

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-US1K	MR-US2K	MR-US3K
Rated Capacity	1kVA / 1kW	2kVA / 2kW	3kVA / 3kW
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)		
UPS Type	Double-conversion On-Line		
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		
Load Efficiency			
AC Mode	Full load 94.5%@220VAC	Full load 95.5%@220VAC	Full load 95.5%@220VAC
Battery Mode	Full load 89.5%@36VDC	Full load 91.5%@72VDC	Full load 91.5%@96VDC
Battery			
Battery Type	Lead-acid battery		
Battery Quantity	12V / 7Ah * 2	12V / 7Ah * 4	12V / 7Ah * 6
Typical Recharge Time	4 – 5 hours recover to 90% capacity		
Physical			
Form Factor	Tower		
Dimension, D*W*H (mm)	276 * 145 * 225	392 * 145 * 225	395 * 190 * 325
Net Weight (kg)	8.6	14.3	20.5
Communication Interface	RS232, USB, EPO		
Communications & Management			
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		
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 & 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-US6K	MR-US10K
Rated Capacity	6kVA / 6kW	10kVA / 10kW
Output		
Output Voltage	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	
Input		
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	
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 Quantity	12V / 7Ah (9Ah optional)*16	12V / 7Ah (9Ah optional)*16
Typical Recharge Time	7 – 9 hours recover to 90% capacity	
Physical		
Form Factor	Tower	
Dimension, D*W*H (mm)	460 * 190 * 615	
Net Weight (kg)	50.6	50.8
Communication Interface	RS232, USB, EPO, SNMP, Dry-contact, Maintenance Connector	
Communications & Management		
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	
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 & 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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