MARSRIVA

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-US1KART-H	MR-US2KART-H	MR-US3KART-H
Rated Capacity	1kVA / 1kW	2kVA / 2kW	3kVA / 3kW
Topology	Double-conversion On-Line		
Output			
Output Voltage	100 / 110 / 115 / 120 / 127VAC		
Output Frequency	50 / 60Hz ± 0.1 %		
Output Harmonic Distortion	≤2% THD(linear load), ≤4% 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	100 / 110 / 115 / 120 / 127VAC		
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	93.5%@110VAC	94.5%@110VAC	94.5%@110VAC
Battery Mode	90.5%@36VDC	93.5%@72VDC	93.5%@96VDC
Battery			
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		
Physical			
Dimension, D*W*H (mm)	438 * 88 * 385	438 * 88 * 572	
Net weight (kg)	10.6	17.5	21.9
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-US6KART-H	MR-US10KART-H
Rated Capacity	6kVA / 6kW	10kVA / 10kW
Topology	Double-conversion On-Line	
Output		
Output Voltage	104 / 110 / 115 / 120VAC or 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 effciency 95%, Maximum efficiency 95.5%	
Battery Mode	Full load effciency 94.8%(20pcs batteries), Maximum efficiency 95.3%	
Battery		
Battery Type	Lead acid battery	
Battery Quantity	12V / 7Ah*16	
Charging Current	1.0A	
Typical Recharge Time	7 - 9 hours recover to 90% capacity	
Physical		
Dimension, D*W*H (mm)	438*88*470	
Net weight (kg)	9.2	11.4
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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