

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.



1KVA



2KVA-3KVA



6KVA-10KVA



Extended Battery Module

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	MR-US2KART	MR-US3KART	MR-US6KART	MR-US10KART
Rated Capacity	1KVA / 1KW	2KVA / 2KW	3KVA / 3KW	6KVA / 6KW	10KVA / 10KW
Topology	Double-conversion On-Line				
Output					
Output voltage	100 / 110 / 115 / 120 / 127VAC			104 / 110 / 115 / 120VAC or 208 / 220 / 230 / 240VAC	
Output frequency	50 / 60Hz ± 0.1 %				
Output Harmonic distortion	≤2% THD(linear load), ≤4% THD(non-linear load)			≤2% 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)			0ms.ECO Mode to Battery Mode 2ms	
Waveform type	Pure Sine wave				
Input					
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 ± 6Hz(Default), ±10HZ(Adjustable)				
Input power factor	≥0.99				
Full Load Efficiency					
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%	
Battery					
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	
Physical					
Dimension, D*W*H (mm)	440*80*420	440*80*600		438*88*470 (Battery pack size:438*88*690)	
Net weight (kg)	10.6	17.5	21.9	8.7	9.5
Communication Interface	RS232, USB, EPO			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				

Specifications are subject to change without notice, and all product drawings are for reference only. Consult MARSRIVA for the latest design and specifications.