MARSRIVA

UPS

Product Catalog

MARSRIVA Technology Co., Ltd.

Smart Line-Interactive UPS

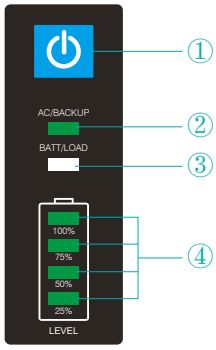
600VA~3000VA

MARSRIVA Line-Interactive UPS provides battery backup and AC power protection against blackouts, brownouts, and line noise that can damage electronics or destroy data. Ideal for backing up home/office workstations, media centers and home entertainment systems, the UPS switches to battery mode in milliseconds to keep your connected equipment running long enough to save files and shut down safely with no data loss.

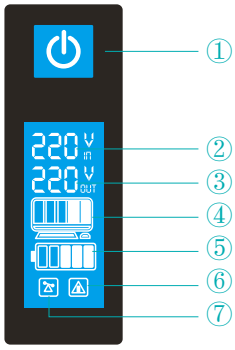
Product Introduction

- Smart LCD or LED is optional

① ON/OFF switch
② AC mode indicator
③ Battery mode indicator
④ Battery capacity indicator

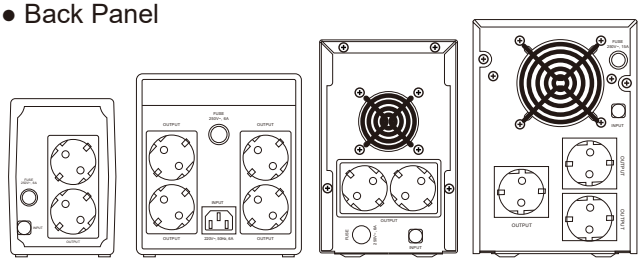


① ON/OFF switch
② Input voltage
③ Output voltage
④ Load level
⑤ Overload
⑥ Battery capacity
⑦ UPS fault



Features

- Back Panel



600VA/800VA 1000VA/1200VA/1500VA 2000VA 3000VA

1. USB is optional for all models
2. RJ 45 is optional for 600VA/800VA/2000VA/3000VA
3. EU / UK / US / AU / Universal / IEC socket type is optional

- Line interactive with microprocessor based digital control
- Boost and buck AVR for voltage stabilization
- Quickly understand unit and power status with visual indicators
- Provide management of the UPS via a serial interface ports
- Automatically charging battery at UPS off mode
- Wide input voltage range for main operations
- Stepped approximation to a sine wave
- Short circuit and overcharge protection
- Wide input frequency range
- Automatic self-test
- Fast charging capacity
- Optional multifunction LCD

Specifications

Model	MR-UF600	MR-UF800	MR-UF1000	MR-UF1200	MR-UF1500	MR-UF2000	MR-UF3000
Capacity	600VA/360W	800VA/480W	1000VA/600W	1200VA/720W	1500VA/900W	2000VA/1200W	3000VA/1800W
Output							
Output voltage	220V ~ 240V						
Output frequency(sync to mains)	50Hz / 60Hz						
Transfer time	Typical 2-6ms, 10ms max						
Topology	Line interactive						
Waveform type	Simulated sine wave						
Input							
Input voltage	220V~240V						
Input voltage range	140V~300V						
Input frequency	50Hz/60Hz +/- 1% (Auto Sensing)						
Battery							
Battery Type & number	12V/7Ah*1	12V/9Ah*1	12V/7Ah*2	12V/7Ah*2	12V/9Ah*2	12V/9Ah*2	12V/9Ah*4
Charge current	1A						
Typical recharge time	4—6 hours recover to 90% capacity						
Communications & Management							
Indicators	AC Model	AC LED lighting					
	Battery Mode	BACKUP LED lighting					
	Battery Capacity	4 LED indicat battery capacity from 0 to 100%					
LCD (optional)	Multifunction LCD status and control console						
Audible alarm	Battery mode: Sounding every 8 seconds						
	Low battery: Sounding every second						
	Overload: Sounding every 0.5 seconds						
	Fault: Continuously sounding						
Protection	Short circuit, Overload , Overcharge and Overdischarge protection						
Physical							
Dimension (mm)	298*101*142		353*149*162			380*158*198	436*145*213
Net weight (kg)	3	3.5	7	8	10	11	20
Environment							
Operating temperature	0°C~40°C						
Storage temperature	-25°C~55°C						
Relative humidity	0~95% (non-condensing)						
Audible noise	Less than 40dB (1 meter from surface)						

Specifications are subject to change without notice, all product drawing is used for reference only.

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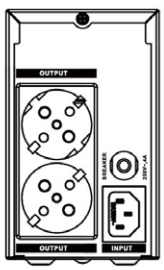
Smart Line-Interactive UPS with Lithium Battery

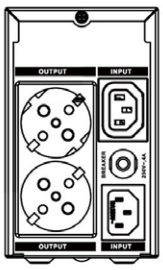
600VA~1200VA

MARSRIVA Line-Interactive Lithium battery UPS uses long life LiFePO4 battery to expend service life of your UPS. Thanks to the excellent charge-discharge characteristics of LiFePO4 battery, the backup time of UPS is much longer than UPS with lead-acid battery. Additional 1* USB 5/2A charging port, you can charge your mobile much easier.

Features



600VA / 800VA



1200VA

- LiFePO4 battery is used instead of lead acid battery
- Longer service life than ordinary UPS
- Longer backup time than ordinary UPS
- 5V/2A USB charging port
- Multifunction LCD status and control console
- Line interactive with microprocessor based digital control
- Boost and buck AVR for voltage stabilization
- Wide input voltage range for main operations
- Short circuit and overcharge protection
- Wide input frequency range
- Fast charging capacity

Specifications

Model	MR-UF600L	MR-UF800L	MR-UF1200L
Rated Capacitiy	**600VA / 360W**	**800VA / 480W**	**1200VA / 720W**
Output			
Output voltage	200V ~ 255V		
Output frequency(sync to mains)	50Hz / 60Hz		
Transfer time	Typical 2-6ms		
Topology	Line interactive		
Waveform type	Simulated sine wave		
USB charge port	5V / 2A		
Input			
Input voltage	220V~240V		
Input voltage range	145V~290V		
Input frequency	50Hz/60Hz +/- 1% (Auto Sensing)		
Battery			
Battery Type	LiFePO4 Battery	LiFePO4 Battery	LiFePO4 Battery
Battery Number	5600mAh / 3.2V*3 PCS	5600mAh / 3.2V*4 PCS	5600mAh / 3.2V*8 PCS
Battery capacity	53.76Wh	71.68Wh	143.36Wh
Communications & Management			
Control panel	Multifunction LCD status and control console		
Protection	Short circuit, Overload , Overcharge and Overdischarge protection		
Physical			
Dimension (mm)	225*85*141		305*85*141
Net weight (kg)	3.3	3.9	5.8
Environment			
Operating temperature	0°C~40°C		
Storage temperature	-25°C~55°C		
Relative humidity	0~95% (non-condensing)		
Audible noise	Less than 40dB (1 meter from surface)		

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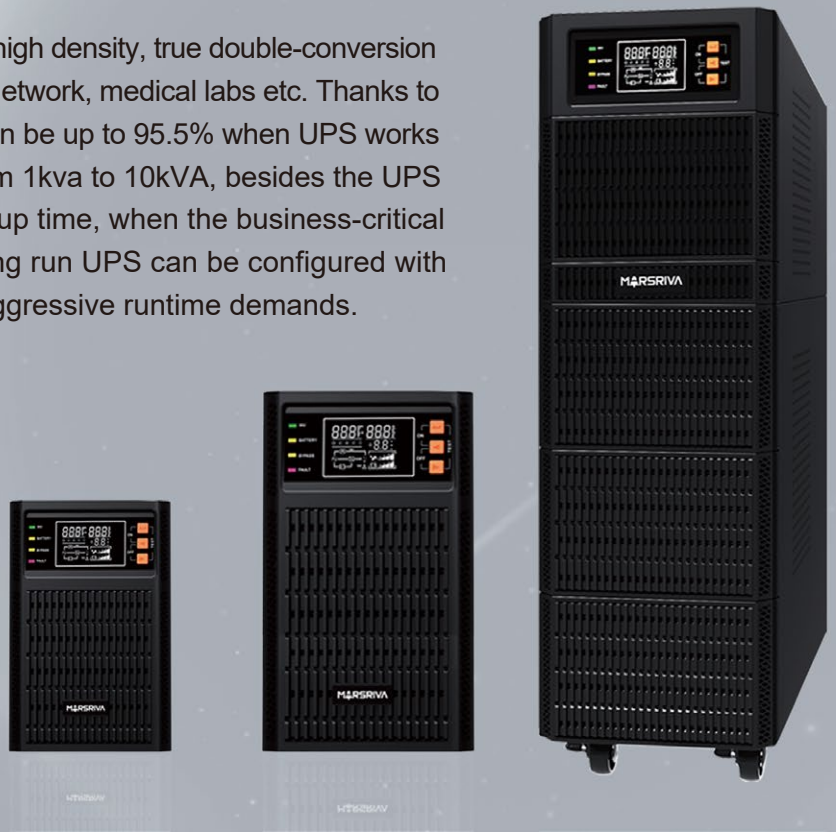
Smart On-Line UPS

1kVA~10kVA

MARSRIVA Smart On-Line UPS provides high density, true double-conversion on-line power protection for servers, data network, medical labs etc. Thanks to the new technology, the UPS efficiency can be up to 95.5% when UPS works on AC mode. The UPS support loads from 1kva to 10kVA, besides the UPS with configured battery for minutes back up time, when the business-critical system requires runtime in hours, the long run UPS can be configured with matching battery packs to comply with aggressive runtime demands.



Features

- High frequency double conversion online with DSP control
- Supply utility power to the connected loads in the event of a UPS power overload or fault
- Give higher application availability by correcting poor frequency and voltage conditions.
- Provide notification of changing utility power and UPS power conditions
- Provides temporary battery power when the utility power is out
- Quickly understand unit and power status with control panel
- Provide management of the UPS via a serial interface ports
- Support economic operation mode for energy saving
- Wide input voltage range for main operations
- Extend runtime with extra battery modules
- High output power factor at 1.0PF
- Easy recovery from overloads
- Automatic self-test
- Intelligent battery management

Smart On-Line UPS

Specifications

Model	MR-US1K	MR-US2K	MR-US3K	MR-US6K	MR-US10K
Rated Capacity	**1KVA / 1KW**	**2KVA / 2KW**	**3KVA / 3KW**	**6KVA / 6KW**	**10KVA / 10KW**
Output					
Output voltage	208V / 220V / 230V / 240V (+/- 1%)				
Output frequency(sync to mains)	50Hz/60Hz (±10Hz)				
Topologg	Double conversion online				
Waveform type	Sine wave				
Crest factor	3:1				
Output voltage distortion	≤1% THD (linear load)			≤2% THD (linear load)	
	≤3% THD (non-linear load)			≤5% THD (non-linear load)	
Transfer time	Main to battery: 0ms, Mains to bypass: less than 4ms				
Input					
Input voltage	208V / 220V / 230V / 240V				
Input voltage range	110V~300V				
Input frequency	50Hz/60Hz +/- 10% (Auto sensing)				
Power factor	≥0.99				
Efficiency					
AC Mode	Full load efficiency 94.5%@220VAC	Full load efficiency 95.5%@220VAC	Full load efficiency 95.5%@220VAC	Maximum efficiency 95.5%, Full load efficiency 95%	
Battery Node	Full load efficiency 89.5%@36VAC	Full load efficiency 91.5%@72VAC	Full load efficiency 91.5%@96VAC	Maximum efficiency 95.3%, Full load efficiency 94.8%(20pcs battery)	
Battery					
Battery number	12V/7Ah*2	12V/7Ah*4 12V/7Ah*6(optional)	12V/7Ah*6 12V/7Ah*8(optional)	12V/7Ah*16 12V/7Ah*20(optional)	12V/7Ah*16 12V/7Ah*20(optional)
Charge current	1.0A	1.0A	1.0A	5.0A	5.0A
Typical recharge time	4—5 hours recover to 90% capacity			7—9 hours recover to 90% capacity	
Communications & Management					
Load capability — AC Mode	Load 102%~110% last 30min			Load 102%~110% last 30min	
	Load 110%~130% last 10min			Load 110%~130% last 10min	
	Load 130%~150% last 30s			Load 130%~150% last 30s	
	Load more than 150% last 300ms			Load more than 150% last 500ms	
Load capability — Battery Mode	Load 102%~110% last 1min			Load 102%~110% last 10min	
	Load 110%~130% last 10s			Load 110%~130% last 10min	
	Load 130%~150% last 3s			Load 130%~150% last 10s	
	Load more than 150% last 200ms			Load more than 150% last 500ms	
Control panel	LCD status display with Load/Battery/Input/Output/Operating mode information				
Interface port(s)	RS232, USB, EPO, SNMP (optional)				
Physical					
Dimension (mm)	285*144*225	395*144*225	410*190*325	460*200*720	
Net weight (kg)	17.5	24	24.2	61	61.5
Environment					
Operating temperature	0°C~40°C				
Storage temperature	-25°C~55°C				
Relative humidity	0~95% (non-condensing)				
Audible noise	Less than 55dB (1 meter from surface)				
Regulator 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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Specifications

Model	MR-US1K-H	MR-US2K-H	MR-US3K-H	MR-US6K-H	MR-US10K-H
Rated Capacity	**1KVA / 1KW**	**2KVA / 2KW**	**3KVA / 3KW**	**6KVA / 6KW**	**10KVA / 10KW**
Output					
Output voltage	208V / 220V / 230V / 240V (+/- 1%)				
Output frequency(sync to mains)	50Hz/60Hz (±10Hz)				
Topologg	Double conversion online				
Waveform type	Sine wave				
Crest factor	3:1				
Output voltage distortion	≤1% THD (linear load) ≤3% THD (non-linear load)			≤2% THD (linear load) ≤5% THD (non-linear load)	
Transfer time	Main to battery: 0ms, Mains to bypass: less than 4ms				
Input					
Input voltage	208V / 220V / 230V / 240V				
Input voltage range	110V~300V				
Input frequency	50Hz/60Hz +/- 10% (Auto sensing)				
Power factor	≥0.99				
Efficiency					
AC Mode	Full load efficiency 94.5%@220VAC	Full load efficiency 95.5%@220VAC	Full load efficiency 95.5%@220VAC	Maximum efficiency 95.5%, Full load efficiency 95%	
Battery Node	Full load efficiency 89.5%@36VAC	Full load efficiency 91.5%@72VAC	Full load efficiency 91.5%@96VAC	Maximum efficiency 95.3%, Full load efficiency 94.8%(20pcs battery)	
Battery					
DC voltage	36V	72V	96V	192V, 240V(optinal)	192V, 240V(optinal)
Charge current	5.0A	5.0A	5.0A	5.0A	5.0A
Communications & Management					
Load capability	AC Mode	Load 102%~110% last 30min		Load 102%~110% last 30min	
		Load 110%~130% last 10min		Load 110%~130% last 10min	
		Load 130%~150% last 30s		Load 130%~150% last 30s	
		Load more than 150% last 300ms		Load more than 150% last 500ms	
	Battery Mode	Load 102%~110% last 1min		Load 102%~110% last 10min	
		Load 110%~130% last 10s		Load 110%~130% last 10min	
		Load 130%~150% last 3s		Load 130%~150% last 10s	
		Load more than 150% last 200ms		Load more than 150% last 500ms	
Control panel	LCD status display with Load/Battery/Input/Output/Operating mode information				
Interface port(s)	RS232, USB, EPO, SNMP (optional)				
Physical					
Dimension (mm)	285*144*225	395*144*225		460*200*360	
Net weight (kg)	5	8.5		14	14.8
Environment					
Operating temperature	0°C~40°C				
Storage temperature	-25°C~55°C				
Relative humidity	0~95% (non-condensing)				
Audible noise	Less than 55dB (1 meter from surface)				
Regulator 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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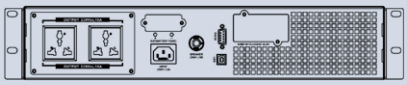
Smart On-Line UPS

1kVA~10kVA RT

MARSRIVA Smart On-Line UPS provides high density, true double-conversion on-line power protection for servers, data network, medical labs etc. Thanks to the new technology, the UPS efficiency can be up to 95.5% when UPS works on AC mode. The UPS support loads from 1kva to 10kVA, besides the UPS with configured battery for minutes back up time, when the business-critical system requires runtime in hours, the long run UPS can be configured with matching battery packs to comply with aggressive runtime demands.



1kVA-3kVA

6kVA-10kVA

Battery Pack

Features

- High frequency double conversion online with DSP control.
- Protect the initial investment in the UPS when migrating from tower to rack-mount environment.
- Supply utility power to the connected loads in the event of a UPS power overload or fault
- Give higher application availability by correcting poor frequency and voltage conditions
- Provide notification of changing utility power and UPS power conditions
- Provides temporary battery power when the utility power is out
- Quickly understand unit and power status with control panel
- Provide management of the UPS via a serial interface ports
- Support economic operation mode for energy saving
- High output power factor at 1.0PF
- Easy recovery from overloads
- Automatic self-test
- Intelligent battery management
- Wide input voltage range for main operations

Smart On-Line UPS

Specifications

Model		MR-US1KRT	MR-US2KRT	MR-US3KRT	MR-US6KRT	MR-US10KRT
Rated Capacity		**1KVA / 1KW**	**2KVA / 2KW**	**3KVA / 3KW**	**6KVA / 6KW**	**10KVA / 10KW**
Output						
Output voltage		208V / 220V / 230V / 240V (+/- 1%)				
Output frequency(sync to mains)		50Hz/60Hz (±10Hz)				
Topologg		Double conversion online				
Waveform type		Sine wave				
Crest factor		3:1				
Output voltage distortion		≤1% THD (linear load)			≤2% THD (linear load)	
		≤3% THD (non-linear load)			≤5% THD (non-linear load)	
Transfer time		Main to battery: 0ms, Mains to bypass: less than 4ms				
Input						
Input voltage		208V / 220V / 230V / 240V				
Input voltage range		110V~300V				
Input frequency		50Hz/60Hz +/- 10% (Auto sensing)				
Power factor		≥0.99				
Efficiency						
AC Mode		Full load efficiency 94.5%@220VAC	Full load efficiency 95.5%@220VAC	Full load efficiency 95.5%@220VAC	Maximum efficiency 95.5%, Full load efficiency 95%	
Battery Node		Full load efficiency 89.5%@36VDC	Full load efficiency 91.5%@72VDC	Full load efficiency 91.5%@96VDC	Maximum efficiency 95.3%, Full load efficiency 94.8%(20pcs battery)	
Battery						
Battery number		12V/7Ah*2 12V/7Ah*3(optional)	12V/7Ah*4 12V/7Ah*6(optional)	12V/7Ah*6	12V/7Ah*16 12V/7Ah*20(optional)	12V/7Ah*16 12V/7Ah*20(optional)
Charge current		1.0A	1.0A	1.0A	5.0A	5.0A
Typical recharge time		4—5 hours recover to 90% capacity			7—9 hours recover to 90% capacity	
Communications & Management						
Load capability	AC Mode	Load 102%~110% last 30min			Load 102%~110% last 30min	
		Load 110%~130% last 10min			Load 110%~130% last 10min	
		Load 130%~150% last 30s			Load 130%~150% last 30s	
		Load more than 150% last 300ms			Load more than 150% last 500ms	
	Battery Mode	Load 102%~110% last 1min			Load 102%~110% last 10min	
		Load 110%~130% last 10s			Load 110%~130% last 10min	
		Load 130%~150% last 3s			Load 130%~150% last 10s	
		Load more than 150% last 200ms			Load more than 150% last 500ms	
Control panel		LCD status display with Load/Battery/Input/Output/Operating mode information				
Interface port(s)		RS232, USB, EPO, SNMP (optional)				
Physical						
Dimension (mm)		440*80*420	440*80*600		438*88*470 (Battery pack size:438*88*690)	
Net weight (kg)		12.6	20.3	20.5	9.5	10.25
Environment						
Operating temperature		0°C~40°C				
Storage temperature		-25°C~55°C				
Relative humidity		0~95% (non-condensing)				
Audible noise		Less than 55dB (1 meter from surface)				
Regulator 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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Specifications

Model	MR-US1KRT-H	MR-US2KRT-H	MR-US3KRT-H	MR-US6KRT-H	MR-US10KRT-H
Rated Capacity	**1KVA / 1KW**	**2KVA / 2KW**	**3KVA / 3KW**	**6KVA / 6KW**	**10KVA / 10KW**
Output					
Output voltage	208V / 220V / 230V / 240V (+/- 1%)				
Output frequency(sync to mains)	50Hz/60Hz (±10Hz)				
Topologg	Double conversion online				
Waveform type	Sine wave				
Crest factor	3:1				
Output voltage distortion	≤1% THD (linear load) ≤3% THD (non-linear load)			≤2% THD (linear load) ≤5% THD (non-linear load)	
Transfer time	Main to battery: 0ms, Mains to bypass: less than 4ms				
Input					
Input voltage	208V / 220V / 230V / 240V				
Input voltage range	110V~300V				
Input frequency	50Hz/60Hz +/- 10% (Auto sensing)				
Power factor	≥0.99				
Efficiency					
AC Mode	Full load efficiency 94.5%@220VAC	Full load efficiency 95.5%@220VAC	Full load efficiency 95.5%@220VAC	Maximum efficiency 95.5%, Full load efficiency 95%	
Battery Node	Full load efficiency 89.5%@36VAC	Full load efficiency 91.5%@72VAC	Full load efficiency 91.5%@96VAC	Maximum efficiency 95.3%, Full load efficiency 94.8%(20pcs battery)	
Battery					
DC voltage	36V	72V	96V	192V, 240V(optinal)	192V, 240V(optinal)
Charge current	5.0A	5.0A	5.0A	5.0A	5.0A
Communications & Management					
Load capability – AC Mode	Load 102%~110% last 30min			Load 102%~110% last 30min	
	Load 110%~130% last 10min			Load 110%~130% last 10min	
	Load 130%~150% last 30s			Load 130%~150% last 30s	
	Load more than 150% last 300ms			Load more than 150% last 500ms	
Load capability – Battery Mode	Load 102%~110% last 1min			Load 102%~110% last 10min	
	Load 110%~130% last 10s			Load 110%~130% last 10min	
	Load 130%~150% last 3s			Load 130%~150% last 10s	
	Load more than 150% last 200ms			Load more than 150% last 500ms	
Control panel	LCD status display with Load/Battery/Input/Output/Operating mode information				
Interface port(s)	RS232, USB, EPO, SNMP (optional)				
Physical					
Dimension (mm)	440*80*420			438*88*470 (Battery pack size:438*88*690)	
Net weight (kg)	8.5	12.8	13	9.5	10.25
Environment					
Operating temperature	0°C~40°C				
Storage temperature	-25°C~55°C				
Relative humidity	0~95% (non-condensing)				
Audible noise	Less than 55dB (1 meter from surface)				
Regulator 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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