

Lithium On-Line UPS

1kVA – 6kVA



UPS (Tower Type)



UPS with LiFePO4 Battery
(MR-LFP48-100-RMD)



UPS (Rack Type)

FEATURES

- **Lithium-iron battery pack**
Save at least half space and 3x longer life than VRLA batteries
- **Modular design, easy for expansion**
Extend backup time by adding more battery pack
- **Rack / Tower convertible**
Provides installation flexibility to suit rack installation or tower standing
- **Battery Management System (BMS)**
Built in BMS communication port for battery management

SPECIFICATIONS

Model	MR-UL1KRT-H	MR-UL2KRT-H	MR-UL3KRT-H	MR-UL6KRT-H
Phase	Single phase with ground			
Capacity	1000VA / 900W	2000VA / 1800W	3000VA / 2700W	6000VA / 6000W
Input				
Nominal Input Voltage	230VAC			
Input Voltage Range	160-300VAC @100% load 110VAC @60% load (Derating)			176-300VAC @100% load 110VAC @ 60% load (Derating)
Frequency Range	40Hz ~ 70Hz			
Power Factor	≥0.99 @nominal voltage (100% load)			
Input Connection	IEC 320 C14	IEC 320 C20	IEC 320 C20	Terminal
Output				
Output Voltage	220 / 230 / 240 VAC (Selective)			
AC Voltage Regulation (Batt. Mode)	±1%			
Frequency Range (Synchronized Range)	57Hz~63Hz or 47Hz~53Hz			56~64Hz or 46~54Hz
Frequency Range (Batt. Mode)	50Hz / 60Hz ± 0.1Hz			
Charging Current	5A	10A	10A(if O/P load>95%,CHG current derate to 6A)	10A, 20A, 30A(20A default)
Output Connection	(6) IEC 320 C13	(6) IEC 320 C13	(6) IEC 320 C13+ (1) IEC C19	Terminal
Current Crest Ratio	3 : 1			
Harmonic Distortion	≤3 % THD (Linear Load); ≤6 % THD (Non-linear Load);			≤1% THD (Linear Load); ≤4 % THD (Non-linear Load);
Transfer Time	AC Mode to Batt. Mode	Zero		
	Inverter to Bypass	4 ms (Typical)		Zero
Waveform (Batt. Mode)	Pure Sine Wave			
Overload	AC Mode	<35°C: 2min @105-125%; 30s @125-140%;		10min @100~125%; 1min @125~130%; 1s @>130%;
	Battery Mode	<35°C: 1min @105-120%; immediately @>120%;		30s @100~125%; 10s @125~130%; immediately @>130%;
Efficiency				
AC Mode	90%			94%
Battery Mode	85%			90%
Physical				
Dimension,D × W × H (mm)	450 × 438 × 86	500 × 438 × 86	500 × 438 × 86	689 × 438 × 86
Net Weight (kgs)	8	8.8	9.7	19.7
Environment				
Operation Humidity	0-95 % RH @ 0-40°C (non-condensing)			
Noise Level	Less than 50dB @1 Meter			Less than 60dB @ 1Meter
Management				
Smart RS232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows@ 7/8, Linux and MAC			
Optional SNMP	Power management from SNMP manager and web browser			

External Battery Pack Specifications

Model	MR-LFP48-50-RMD	MR-LFP48-100-RMD
Cell Type	LiFePO4	LiFePO4
Battery Capacity	50Ah	100Ah
Continuous Discharge Current	75A	150A
Max Charging Current Per Pack	50A (1C)	100A (1C)
Charging Voltage	52.5V	52.5V
Dimension, D × W × H (mm)	630 × 438 × 86	630 × 438 × 133
Net Weight (kgs)	28.2	48.5
Humidity	0 - 95% (non-condensing)	

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