

Energy Storage LiFePO4 Battery





CONTENTS

Low Voltage (25.6V)

MR-LFP24-100-WMT	01
MR-LFP24-200-WMT	02
MR-LFP24-314-WMT	03

Low Voltage (51.2V)

MR-LFP48-100-WMT	04
MR-LFP48-200-WMT	05
MR-LFP48-100-WMD	06
MR-LFP48-200-WMD	07
MR-LFP48-314-FSD	08
MR-LFP48-628-FSD	09

High Voltage (368V – 672V)

Rack-Mounted LiFePO4 Battery	10
------------------------------------	----

2.56kWh LiFePO4 Battery

25.6V / 100Ah



SPECIFICATION

Model	MR-LFP24-100-WMT
Battery Type	LiFePO4 Battery (Grade A)
Nominal Voltage	25.6V
Rated Capacity	100Ah
Rated Energy	2.56kWh
Charging Current	Nominal 50A; Max. 105A
Discharging Current	Max. 120A
Battery Cycle Life	≥6000 cycles @25°C, to 70% EOL
Design Life	≥10 years
Parallel Capacity	Up to 15 units
Power Off Self-Consumption	≤200uA
Cell Balance Function	Passive Balance
Communication Interface	BMS(485/CAN), RS232, Parallel, WiFi&Bluetooth
Monitoring	3.5-inch touch screen, PC software, Mobile APP
Operating Ambient Temperature	Charge: 0°C to 55°C; Discharge: -20°C to 55°C
Storage Temperature	0°C to 40°C
Operating Humidity	5% – 95%
Dimensions, W×D×H(TH)	360 × 150 × 400 (437) mm
Weights	≈28kg

All above information shall be changed without prior notice, MARSRIVA reserves the right to explain and update the latest information.

5.12kWh LiFePO4 Battery

25.6V / 200Ah



SPECIFICATION

Model	MR-LFP24-200-WMT
Battery Type	LiFePO4 Battery (Grade A)
Nominal Voltage	25.6V
Rated Capacity	200Ah
Rated Energy	5.12kWh
Charging Current	Nominal 100A; Max. 150A
Discharging Current	Max. 150A
Battery Cycle Life	≥6000 cycles @25°C, to 70% EOL
Design Life	≥10 years
Parallel Capacity	Up to 15 units
Power Off Self-Consumption	≤200uA
Cell Balance Function	Passive Balance
Communication Interface	BMS(485/CAN), RS232, Parallel, WiFi&Bluetooth
Monitoring	3.5-inch touch screen, PC software, Mobile APP
Operating Ambient Temperature	Charge: 0°C to 55°C; Discharge: -20°C to 55°C
Storage Temperature	0°C to 40°C
Operating Humidity	5% – 95%
Dimensions, W×D×H(TH)	390 × 240 × 380 (418) mm
Weights	≈47kg

All above information shall be changed without prior notice, MARSRIVA reserves the right to explain and update the latest information.

8.03kWh LiFePO4 Battery

25.6V / 314Ah



SPECIFICATION

Model	MR-LFP24-314-WMT
Battery Type	LiFePO4 Battery (Grade A)
Nominal Voltage	25.6V
Rated Capacity	314Ah
Rated Energy	8.03kWh
Charging Current	Nominal 100A; Max. 150A
Discharging Current	Max. 150A
Battery Cycle Life	≥6000 cycles @25°C, to 70% EOL
Design Life	≥10 years
Parallel Capacity	Up to 15 units
Power Off Self-Consumption	≤200uA
Cell Balance Function	Passive Balance
Communication Interface	BMS(485/CAN), RS232, Parallel, WiFi&Bluetooth
Monitoring	3.5-inch touch screen, PC software, Mobile APP
Operating Ambient Temperature	Charge: 0°C to 55°C; Discharge: -20°C to 55°C
Storage Temperature	0°C to 40°C
Operating Humidity	5% – 95%
Dimensions, W×D×H(TH)	390 × 240 × 515 mm
Weights	≈65kg

All above information shall be changed without prior notice, MARSRIVA reserves the right to explain and update the latest information.

5.12kWh LiFePO4 Battery

5.12V / 100Ah



SPECIFICATION

Model	MR-LFP48-100-WMT
Battery Type	LiFePO4 Battery (Grade A)
Nominal Voltage	51.2V
Rated Capacity	100Ah
Rated Energy	5.12kWh
Charging Current	Nominal 50A; Max. 105A
Discharging Current	Max. 120A
Battery Cycle Life	≥6000 cycles @25°C, to 70% EOL
Design Life	≥10 years
Parallel Capacity	Up to 15 units
Power Off Self-Consumption	≤200uA
Cell Balance Function	Passive Balance
Communication Interface	BMS(485/CAN), RS232, Parallel, WiFi&Bluetooth
Monitoring	3.5-inch touch screen, PC software, Mobile APP
Operating Ambient Temperature	Charge: 0°C to 55°C; Discharge: -20°C to 55°C
Storage Temperature	0°C to 40°C
Operating Humidity	5% – 95%
Dimensions, W×D×H(TH)	360 × 150 × 610 (647) mm
Weights	≈50kg

All above information shall be changed without prior notice, MARSRIVA reserves the right to explain and update the latest information.

10.24kWh LiFePO4 Battery

5.12V / 200Ah



SPECIFICATION

Model	MR-LFP48-200-WMT
Battery Type	LiFePO4 Battery (Grade A)
Nominal Voltage	51.2V
Rated Capacity	200Ah
Rated Energy	10.24kWh
Charging Current	Nominal 100A; Max. 210A
Discharging Current	Max. 210A
Battery Cycle Life	≥6000 cycles @25°C, to 70% EOL
Design Life	≥10 years
Parallel Capacity	Up to 15 units
Power Off Self-Consumption	≤200uA
Cell Balance Function	Passive Balance
Communication Interface	BMS(485/CAN), RS232, Parallel, WiFi&Bluetooth
Monitoring	3.5-inch touch screen, PC software, Mobile APP
Operating Ambient Temperature	Charge: 0°C to 55°C; Discharge: -20°C to 55°C
Storage Temperature	0°C to 40°C
Operating Humidity	5% – 95%
Dimensions, W×D×H(TH)	420 × 240 × 620 mm
Weights	≈89kg

All above information shall be changed without prior notice, MARSRIVA reserves the right to explain and update the latest information.

5.22kWh LiFePO4 Battery

51.2V / 102Ah



SPECIFICATION

Model	MR-LFP48-100-WMD
Battery Type	LiFePO4 Battery (Grade A)
Nominal Voltage	51.2V
Rated Capacity	102Ah
Rated Energy	5.22kWh
Charging Current	Nominal 50A; Max. 105A
Discharging Current	Max. 120A
Battery Cycle Life	≥6000 cycles @25°C, to 70% EOL
Design Life	≥10 years
Parallel Capacity	Up to 15 units
Power Off Self-Consumption	≤200uA
Cell Balance Function	Passive Balance
Communication Interface	BMS(485/CAN), RS232, Parallel, WiFi&Bluetooth
Monitoring	3.5-inch touch screen, PC software, Mobile APP
Operating Ambient Temperature	Charge: 0°C to 55°C; Discharge: -20°C to 55°C
Storage Temperature	0°C to 40°C
Operating Humidity	5% – 95%
Dimensions, W×D×H(TH)	398 × 198.5 × 598.5 mm
Weights	≈44.5kg

All above information shall be changed without prior notice, MARSRIVA reserves the right to explain and update the latest information.

10.44kWh LiFePO4 Battery

51.2V / 204Ah



SPECIFICATION

Model	MR-LFP48-200-WMD
Battery Type	LiFePO4 Battery (Grade A)
Nominal Voltage	51.2V
Rated Capacity	204Ah
Rated Energy	10.44kWh
Charging Current	Nominal 100A; Max. 210A
Discharging Current	Max. 210A
Battery Cycle Life	≥6000 cycles @25°C, to 70% EOL
Design Life	≥10 years
Parallel Capacity	Up to 15 units
Power Off Self-Consumption	≤200uA
Cell Balance Function	Passive Balance
Communication Interface	BMS(485/CAN), RS232, Parallel, WiFi&Bluetooth
Monitoring	3.5-inch touch screen, PC software, Mobile APP
Operating Ambient Temperature	Charge: 0°C to 55°C; Discharge: -20°C to 55°C
Storage Temperature	0°C to 40°C
Operating Humidity	5% – 95%
Dimensions, W×D×H(TH)	485 × 200 × 850mm
Weights	≈86kg

All above information shall be changed without prior notice, MARSRIVA reserves the right to explain and update the latest information.

16.07kWh LiFePO4 Battery

51.2V / 314Ah



SPECIFICATION

Model	MR-LFP48-314-WMT
Battery Type	LiFePO4 Battery (Grade A)
Nominal Voltage	51.2V
Rated Capacity	314Ah
Rated Energy	16.07kWh
Charging Current	Nominal 160A; Max. 210A
Discharging Current	Max. 210A
Battery Cycle Life	≥6000 cycles @25°C, to 70% EOL
Design Life	≥10 years
Parallel Capacity	Up to 15 units
Power Off Self-Consumption	≤200uA
Cell Balance Function	Passive Balance
Communication Interface	BMS(485/CAN), RS232, Parallel, WiFi&Bluetooth
Monitoring	3.5-inch touch screen, PC software, Mobile APP
Operating Ambient Temperature	Charge: 0°C to 55°C; Discharge: -20°C to 55°C
Storage Temperature	0°C to 40°C
Operating Humidity	5% – 95%
Dimensions, W×D×H(TH)	428 × 238 × 825(896) mm
Weights	≈125kg

32.15kWh LiFePO4 Battery

51.2V / 628Ah



SPECIFICATION

Model	MR-LFP48-628-FSD
Battery Type	LiFePO4 Battery (Grade A)
Nominal Voltage	51.2V
Rated Capacity	628Ah
Rated Energy	32.15kWh
Charging Current	Nominal 160A; Max. 210A
Discharging Current	Max. 210A
Battery Cycle Life	≥6000 cycles @25°C, to 70% EOL
Design Life	≥10 years
Parallel Capacity	Up to 15 units
Power Off Self-Consumption	≤200uA
Cell Balance Function	Passive Balance
Communication Interface	BMS(485/CAN), RS232, Parallel, WiFi&Bluetooth
Monitoring	4.3-inch touch screen, PC software, Mobile APP
Operating Ambient Temperature	Charge: 0°C to 55°C; Discharge: -20°C to 55°C
Storage Temperature	0°C to 40°C
Operating Humidity	5% – 95%
Dimensions, W×D×H(TH)	480 × 520 × 1004.5 mm
Weights	≈225kg

All above information shall be changed without prior notice, MARSRIVA reserves the right to explain and update the latest information.

Rack-Mounted LiFePO4 Battery

High Voltage: 368V – 672V

BP60HRT
61.44kWh ►



◀ BP40HRT
40.96kWh

SPECIFICATION

Model	BP40HRT	BP60HRT
Kit contents	8 × MR-LFP5.12-HRT 1 × High Voltage Control Box 1 × 9-storey Rack	12 × MR-LFP5.12-HRT 1 × High Voltage Control Box 1 × 13-storey Rack
Battery Type	LiFePO4 Battery (Grade A)	
Battery Module Number	8*51.2V-100Ah	12*51.2V-100Ah
Nominal Energy	40.96kWh	61.44kWh
Nominal Voltage	409.6V	614.4V
Working Voltage Range	368V-448V	552V-672V
Rated Working Current	Charge / Discharge: 100A Max.	
Cycle Life	≥6000 @25°C, to 70% EOL	
Design Life	≥10 years	
Self-consumption	≤3.5% per month @25°C	
Communication	PCS (RS485/CAN), BMU, Parallel	
Protection Level	IP20	
Parallel Capacity	Up to 5 units	
Working Temperature Range	Charging: 0 to 55°C; Discharging: -20 to 55°C;	
Dimension (W*D*H)	570 × 625 × 1620mm	570 × 625 × 2270mm
Weight	≈392.8kg	≈582.2kg

All above information shall be changed without prior notice, MARSRIVA reserves the right to explain and update the latest information.

High Voltage Control Box Parameters

Model	MR-CB60100H5.12RT
Working Voltage Range	100VDC – 750VDC
Maximum Charge Current	100A
Maximum Discharge Current	100A
Communication	PCS (RS485 / CAN), BMU
IP Rating	IP20
Charging Temperature	0°C to 55°C
Discharging Temperature	-20°C to 60°C
Storage Temperature	-10°C to 30°C
Humidity	5% – 95%
Dimension (W × D × H)	442 × 620 × 178mm
Approximate Weight	25kg

High Voltage Control Box



Safety First



Durable Performance



Space-Saving Design



Smart Control

Battery Module Specifications

Model	MR-LFP5.12-HRT
Battery Type	LiFePO4 Battery (Grade A)
Nominal Voltage	51.2V
Rated Capacity	100Ah
Rated Energy	5.12kWh
Recommended Charge Current	50A
Recommended Discharge Current	50A
Max Charge Current	100A
Max Discharge Current	100A
Charging Temperature	0°C – 55°C
Storage Temperature	-20°C – 55°C
IP Rating	IP20
Dimension (W × D × H)	442 × 620 × 140mm
Approximate Weight	45kg

Rack-Mounted (HV) LiFePO4 Battery
5.12kW (51.2V / 100Ah)



Safety First



Durable Performance



Space-Saving Design



Smart Control

MARSRIVA

————— Keep Life Power On —————

www.marsriva.com