



# LiFePO4 Battery



Marsriva Technology Co., Ltd.

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# 1.30kWh LiFePO4 Battery

12.8V / 102Ah



## SPECIFICATIONS

|                                |                                                     |
|--------------------------------|-----------------------------------------------------|
| Model                          | MR-LFP12-100-WMD                                    |
| Battery Type                   | BYD LiFePO4 Battery (Grade A)                       |
| Nominal Voltage                | 12.8V                                               |
| Nominal Capacity               | 102Ah                                               |
| Storage Energy                 | 1.30kWh                                             |
| Charging Voltage               | 14.4V DC                                            |
| Discharging Cut-off Voltage    | 10.8V DC                                            |
| Charging Current               | 50A, 100A (Max.)                                    |
| Discharging Current            | 100A (Max.)                                         |
| Battery Internal Resistance    | $\leq 10\text{m}\Omega$                             |
| Cycle Life                     | $\geq 6000$ @25°C, 70% EOL                          |
| Design Life                    | $\geq 10$ years                                     |
| Communication                  | Bluetooth, RS485(BMS), RS485(Parallel)              |
| Number of Parallel Connections | Up to 15 units                                      |
| Terminal Size                  | M6                                                  |
| Charging Temperature           | 0°C to 55°C                                         |
| Discharge Temperature          | -20°C to 60°C                                       |
| Storage Temperature            | -30°C to 35°C                                       |
| Humidity                       | 5% – 95%                                            |
| Dimension (L*W*H)              | 315 × 190 × 155mm (Package size: 395 × 250 × 220mm) |
| Weight                         | Net Weight: 11.3kg                                  |

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

# 2.61kWh LiFePO4 Battery

12.8V / 204Ah



## SPECIFICATIONS

|                                |                                                     |
|--------------------------------|-----------------------------------------------------|
| Model                          | MR-LFP12-200-WMD                                    |
| Battery Type                   | BYD LiFePO4 Battery (Grade A)                       |
| Nominal Voltage                | 12.8V                                               |
| Nominal Capacity               | 204Ah                                               |
| Storage Energy                 | 2.61kWh                                             |
| Charging Voltage               | 14.4V DC                                            |
| Discharging Cut-off Voltage    | 10.8V DC                                            |
| Charging Current               | 50A, 100A (Max.)                                    |
| Discharging Current            | 100A (Max.)                                         |
| Battery Internal Resistance    | $\leq 10\text{m}\Omega$                             |
| Cycle Life                     | $\geq 6000$ @25°C, 70% EOL                          |
| Design Life                    | $\geq 10$ years                                     |
| Communication                  | Bluetooth, RS485(BMS), RS485(Parallel)              |
| Number of Parallel Connections | Up to 15 units                                      |
| Terminal Size                  | M6                                                  |
| Charging Temperature           | 0°C to 55°C                                         |
| Discharge Temperature          | -20°C to 60°C                                       |
| Storage Temperature            | -30°C to 35°C                                       |
| Humidity                       | 5% – 95%                                            |
| Dimension (L*W*H)              | 315 × 350 × 155mm (Package size: 420 × 400 × 230mm) |
| Weight                         | Net Weight: 21.65kg                                 |

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# 3.91kWh LiFePO4 Battery

12.8V / 306Ah



## SPECIFICATIONS

|                                |                                                     |
|--------------------------------|-----------------------------------------------------|
| Model                          | MR-LFP12-300-WMD                                    |
| Battery Type                   | BYD LiFePO4 Battery (Grade A)                       |
| Nominal Voltage                | 12.8V                                               |
| Nominal Capacity               | 306Ah                                               |
| Storage Energy                 | 3.91kWh                                             |
| Charging Voltage               | 14.4V DC                                            |
| Discharging Cut-off Voltage    | 10.8V DC                                            |
| Charging Current               | 50A, 100A (Max.)                                    |
| Discharging Current            | 100A (Max.)                                         |
| Battery Internal Resistance    | $\leq 10\text{m}\Omega$                             |
| Cycle Life                     | $\geq 6000$ @25°C, 70% EOL                          |
| Design Life                    | $\geq 10$ years                                     |
| Communication                  | Bluetooth, RS485(BMS), RS485(Parallel)              |
| Number of Parallel Connections | Up to 15 units                                      |
| Terminal Size                  | M6                                                  |
| Charging Temperature           | 0°C to 55°C                                         |
| Discharge Temperature          | -20°C to 60°C                                       |
| Storage Temperature            | -30°C to 35°C                                       |
| Humidity                       | 5% – 95%                                            |
| Dimension (L*W*H)              | 420 × 350 × 155mm (Package size: 495 × 410 × 215mm) |
| Weight                         | Net Weight: 31.25kg                                 |

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# 2.61kWh LiFePO4 Battery

25.6V / 102Ah



## SPECIFICATIONS

|                                |                                                     |
|--------------------------------|-----------------------------------------------------|
| Model                          | MR-LFP24-100-WMD                                    |
| Battery Type                   | BYD LiFePO4 Battery (Grade A)                       |
| Nominal Voltage                | 25.6V                                               |
| Nominal Capacity               | 102Ah                                               |
| Storage Energy                 | 2.61kWh                                             |
| Battery Internal Resistance    | ≤10mΩ                                               |
| Cycle Life                     | ≥6000 @25°C, 70% EOL                                |
| Design Life                    | ≥10 years                                           |
| Max. Charging Current          | 105A                                                |
| Max. Discharging Current       | 120A                                                |
| Peak Charging Current          | 110A / 2s                                           |
| Peak Discharging Current       | 125A / 2s                                           |
| Communication                  | RS485, CAN                                          |
| Number of Parallel Connections | Up to 15 units                                      |
| Charging Temperature           | 0°C to 60°C                                         |
| Discharge Temperature          | -15°C to 55°C                                       |
| Storage Temperature            | -30°C to 35°C                                       |
| Humidity                       | 5% – 95%                                            |
| LCD                            | 4.3-inch touch screen                               |
| Dimension (L*W*H)              | 530 × 368 × 200mm (Package size: 610 × 450 × 290mm) |
| Weight                         | Net Weight: 28.0kg (Gross Weight: 35.2kg)           |

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# 5.22kWh LiFePO4 Battery

25.6V / 204Ah



## SPECIFICATIONS

|                                |                                                     |
|--------------------------------|-----------------------------------------------------|
| Model                          | MR-LFP24-200-WMD                                    |
| Battery Type                   | BYD LiFePO4 Battery (Grade A)                       |
| Nominal Voltage                | 25.6V                                               |
| Nominal Capacity               | 204Ah                                               |
| Storage Energy                 | 5.22kWh                                             |
| Battery Internal Resistance    | ≤10mΩ                                               |
| Cycle Life                     | ≥6000 @25°C, 70% EOL                                |
| Design Life                    | ≥10 years                                           |
| Max. Charging Current          | 120A                                                |
| Max. Discharging Current       | 120A                                                |
| Peak Charging Current          | 125A / 2s                                           |
| Peak Discharging Current       | 125A / 2s                                           |
| Communication                  | RS232, RS485, CAN                                   |
| Number of Parallel Connections | Up to 15 units                                      |
| Charging Temperature           | 0°C to 60°C                                         |
| Discharge Temperature          | -15°C to 55°C                                       |
| Storage Temperature            | -30°C to 35°C                                       |
| Humidity                       | 5% – 95%                                            |
| LCD                            | 4.3-inch touch screen                               |
| Dimension (L*W*H)              | 597 × 398 × 200mm (Package size: 690 × 490 × 410mm) |
| Weight                         | Net Weight: 47.2kg (Gross Weight: 57.4kg)           |

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# 7.68kWh LiFePO4 Battery

25.6V / 300Ah



## SPECIFICATIONS

|                                |                                                     |
|--------------------------------|-----------------------------------------------------|
| Model                          | MR-LFP24-300-WMD                                    |
| Battery Type                   | REPT LiFePO4 Battery (Grade A)                      |
| Nominal Voltage                | 25.6V                                               |
| Nominal Capacity               | 300Ah                                               |
| Storage Energy                 | 7.68kWh                                             |
| Battery Internal Resistance    | $\leq 10\text{m}\Omega$                             |
| Cycle Life                     | $\geq 6000$ @25°C, 70% EOL                          |
| Design Life                    | $\geq 10$ years                                     |
| Max. Charging Current          | 200A                                                |
| Max. Discharging Current       | 200A                                                |
| Peak Charging Current          | 215A / 2s                                           |
| Peak Discharging Current       | 215A / 2s                                           |
| Communication                  | RS232, RS485, CAN                                   |
| Number of Parallel Connections | Up to 15 units                                      |
| Charging Temperature           | 0°C to 50°C                                         |
| Discharge Temperature          | -15°C to 50°C                                       |
| Storage Temperature            | -30°C to 35°C                                       |
| Humidity                       | 5% – 95%                                            |
| LCD                            | 4.3-inch touch screen                               |
| Dimension (L*W*H)              | 600 × 398 × 238mm (Package size: 690 × 480 × 425mm) |
| Weight                         | Net Weight: 62.5kg (Gross Weight: 75.2kg)           |

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# 5.22kWh LiFePO4 Battery

51.2V / 102Ah



## SPECIFICATIONS

|                                |                                                     |
|--------------------------------|-----------------------------------------------------|
| Model                          | MR-LFP48-100-WMD                                    |
| Battery Type                   | BYD LiFePO4 Battery (Grade A)                       |
| Nominal Voltage                | 51.2V                                               |
| Nominal Capacity               | 102Ah                                               |
| Storage Energy                 | 5.22kWh                                             |
| Battery Internal Resistance    | $\leq 10\text{m}\Omega$                             |
| Cycle Life                     | $\geq 6000$ @25°C, 70% EOL                          |
| Design Life                    | $\geq 10$ years                                     |
| Max. Charging Current          | 105A                                                |
| Max. Discharging Current       | 120A                                                |
| Peak Charging Current          | 110A / 2s                                           |
| Peak Discharging Current       | 125A / 2s                                           |
| Communication                  | RS232, RS485, CAN                                   |
| Number of Parallel Connections | Up to 15 units                                      |
| Charging Temperature           | 0°C to 60°C                                         |
| Discharge Temperature          | -15°C to 55°C                                       |
| Storage Temperature            | -30°C to 35°C                                       |
| Humidity                       | 5% – 95%                                            |
| LCD                            | 4.3-inch touch screen                               |
| Dimension (L*W*H)              | 597 × 398 × 200mm (Package size: 690 × 490 × 410mm) |
| Weight                         | Net Weight: 47.3kg (Gross Weight: 57.5kg)           |

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# 10.44kWh LiFePO4 Battery

51.2V / 204Ah



## SPECIFICATIONS

|                                |                                                     |
|--------------------------------|-----------------------------------------------------|
| Model                          | MR-LFP48-200-WMD                                    |
| Battery Type                   | BYD LiFePO4 Battery (Grade A)                       |
| Nominal Voltage                | 51.2V                                               |
| Nominal Capacity               | 204Ah                                               |
| Storage Energy                 | 10.44kWh                                            |
| Battery Internal Resistance    | $\leq 10\text{m}\Omega$                             |
| Cycle Life                     | $\geq 6000$ @25°C, 70% EOL                          |
| Design Life                    | $\geq 10$ years                                     |
| Max. Charging Current          | 210A                                                |
| Max. Discharging Current       | 210A                                                |
| Peak Charging Current          | 215A / 2s                                           |
| Peak Discharging Current       | 215A / 2s                                           |
| Communication                  | RS232, RS485, CAN                                   |
| Number of Parallel Connections | Up to 15 units                                      |
| Charging Temperature           | 0°C to 60°C                                         |
| Discharge Temperature          | -15°C to 55°C                                       |
| Storage Temperature            | -30°C to 35°C                                       |
| Humidity                       | 5% – 95%                                            |
| LCD                            | 4.3-inch touch screen                               |
| Dimension (L*W*H)              | 847 × 483 × 200mm (Package size: 940 × 578 × 410mm) |
| Weight                         | Net Weight: 89.3kg (Gross Weight: 104.2kg)          |

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# 14.33kWh LiFePO4 Battery

51.2V / 280Ah



## SPECIFICATIONS

|                                |                                                     |
|--------------------------------|-----------------------------------------------------|
| Model                          | MR-LFP48-280-WMD                                    |
| Battery Type                   | REPT LiFePO4 Battery (Grade A)                      |
| Nominal Voltage                | 51.2V                                               |
| Nominal Capacity               | 280Ah                                               |
| Storage Energy                 | 14.33kWh                                            |
| Battery Internal Resistance    | $\leq 10\text{m}\Omega$                             |
| Cycle Life                     | $\geq 6000$ @25°C, 80% EOL                          |
| Design Life                    | $\geq 10$ years                                     |
| Max. Charging Current          | 200A                                                |
| Max. Discharging Current       | 200A                                                |
| Peak Charging Current          | 215A / 2s                                           |
| Peak Discharging Current       | 215A / 2s                                           |
| Communication                  | RS485, CAN                                          |
| Number of Parallel Connections | Up to 15 units                                      |
| Charging Temperature           | 0°C to 50°C                                         |
| Discharge Temperature          | -15°C to 50°C                                       |
| Storage Temperature            | -30°C to 35°C                                       |
| Humidity                       | 5% – 95%                                            |
| LCD                            | 4.3-inch touch screen                               |
| Dimension (L*W*H)              | 825 × 428 × 238mm (Package size: 910 × 510 × 425mm) |
| Weight                         | Net Weight: 110.7kg (Gross Weight: 125.5kg)         |

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

# 16.38kWh LiFePO4 Battery

51.2V / 320Ah



## SPECIFICATIONS

|                                |                                                      |
|--------------------------------|------------------------------------------------------|
| Model                          | MR-LFP48-320-FSD                                     |
| Battery Type                   | BYD LiFePO4 Battery (Grade A)                        |
| Nominal Voltage                | 51.2V                                                |
| Nominal Capacity               | 320Ah                                                |
| Storage Energy                 | 16.38kWh                                             |
| Battery Internal Resistance    | $\leq 10\text{m}\Omega$                              |
| Cycle Life                     | $\geq 6000$ @25°C, 70% EOL                           |
| Design Life                    | $\geq 10$ years                                      |
| Max. Charging Current          | 210A                                                 |
| Max. Discharging Current       | 210A                                                 |
| Peak Charging Current          | 215A / 2s                                            |
| Peak Discharging Current       | 215A / 2s                                            |
| Communication                  | RS232, RS485, CAN                                    |
| Number of Parallel Connections | Up to 15 units                                       |
| Charging Temperature           | 0°C to 60°C                                          |
| Discharge Temperature          | -15°C to 55°C                                        |
| Storage Temperature            | -30°C to 35°C                                        |
| Humidity                       | 5% – 95%                                             |
| LCD                            | 4.3-inch touch screen                                |
| Dimension (L*W*H)              | 520 × 470 × 855mm (Package size: 615 × 565 × 1040mm) |
| Weight                         | Net Weight: 142.4kg (Gross Weight: 158.1kg)          |

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

# 17.40kWh LiFePO4 Battery

51.2V / 340Ah



## SPECIFICATIONS

|                                |                                                     |
|--------------------------------|-----------------------------------------------------|
| Model                          | MR-LFP48-340-WMD                                    |
| Battery Type                   | Gotion LiFePO4 Battery (Grade A)                    |
| Nominal Voltage                | 51.2V                                               |
| Nominal Capacity               | 340Ah                                               |
| Storage Energy                 | 17.40kWh                                            |
| Battery Internal Resistance    | ≤10mΩ                                               |
| Cycle Life                     | ≥6000 @25°C, 70% EOL                                |
| Design Life                    | ≥10 years                                           |
| Max. Charging Current          | 200A                                                |
| Max. Discharging Current       | 200A                                                |
| Peak Charging Current          | 215A / 2s                                           |
| Peak Discharging Current       | 215A / 2s                                           |
| Communication                  | RS485, CAN                                          |
| Number of Parallel Connections | Up to 15 units                                      |
| Charging Temperature           | 0°C to 50°C                                         |
| Discharge Temperature          | -15°C to 50°C                                       |
| Storage Temperature            | -30°C to 35°C                                       |
| Humidity                       | 5% – 95%                                            |
| LCD                            | 4.3-inch touch screen                               |
| Dimension (L*W*H)              | 738 × 610 × 238mm (Package size: 825 × 695 × 425mm) |
| Weight                         | Net Weight: 123.7kg (Gross Weight: 142.2kg)         |

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

# 17.92kWh LiFePO4 Battery

51.2V / 350Ah



## SPECIFICATIONS

|                                |                                                       |
|--------------------------------|-------------------------------------------------------|
| Model                          | MR-LFP48-350-WMD                                      |
| Battery Type                   | BYD LiFePO4 Battery (Grade A)                         |
| Nominal Voltage                | 51.2V                                                 |
| Nominal Capacity               | 350Ah                                                 |
| Storage Energy                 | 17.92kWh                                              |
| Battery Internal Resistance    | $\leq 10\text{m}\Omega$                               |
| Cycle Life                     | $\geq 6000$ @25°C, 70% EOL                            |
| Design Life                    | $\geq 10$ years                                       |
| Max. Charging Current          | 200A                                                  |
| Max. Discharging Current       | 200A                                                  |
| Peak Charging Current          | 215A / 2s                                             |
| Peak Discharging Current       | 215A / 2s                                             |
| Communication                  | RS485, CAN                                            |
| Number of Parallel Connections | Up to 15 units                                        |
| Charging Temperature           | 0°C to 50°C                                           |
| Discharge Temperature          | -15°C to 50°C                                         |
| Storage Temperature            | -30°C to 35°C                                         |
| Humidity                       | 5% – 95%                                              |
| LCD                            | 4.3-inch touch screen                                 |
| Dimension (L*W*H)              | 1150 × 538 × 200mm (Package size: 1225 × 620 × 385mm) |
| Weight                         | Net Weight: 139.5kg (Gross Weight: 162.5kg)           |

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

# 28.67kWh LiFePO4 Battery

51.2V / 560Ah



## SPECIFICATIONS

|                                |                                                       |
|--------------------------------|-------------------------------------------------------|
| Model                          | MR-LFP48-560-FSD                                      |
| Battery Type                   | REPT LiFePO4 Battery (Grade A)                        |
| Nominal Voltage                | 51.2V                                                 |
| Nominal Capacity               | 560Ah                                                 |
| Storage Energy                 | 28.67kWh                                              |
| Battery Internal Resistance    | $\leq 10\text{m}\Omega$                               |
| Cycle Life                     | $\geq 6000$ @25°C, 80% EOL                            |
| Design Life                    | $\geq 10$ years                                       |
| Max. Charging Current          | 200A                                                  |
| Max. Discharging Current       | 200A                                                  |
| Peak Charging Current          | 215A / 2s                                             |
| Peak Discharging Current       | 215A / 2s                                             |
| Communication                  | RS485, CAN                                            |
| Number of Parallel Connections | Up to 15 units                                        |
| Charging Temperature           | 0°C to 50°C                                           |
| Discharge Temperature          | -15°C to 50°C                                         |
| Storage Temperature            | -30°C to 35°C                                         |
| Humidity                       | 5% – 95%                                              |
| LCD                            | 4.3-inch touch screen                                 |
| Dimension (L*W*H)              | 520 × 480 × 1005mm (Package size: 605 × 565 × 1155mm) |
| Weight                         | Net Weight: 228kg (Gross Weight: 246kg)               |

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