# Product Data Sheet

2026-11-04




# MG LFP Battery 25.6V/304Ah/7800Wh SLP (M12, HV)

MGLFP244304

## Description

The MG LFP Battery 24 V 304 SLP contains the third generation LiFePO4 chemistry forms the basis of this safe and reliable battery. With the SurLok Plus Connectors, installation is safer and easier. This battery is fully scalable in both voltage and capacity. Easily expand your energy storage system (ESS) by connecting the LFP batteries in parallel and series. Connect up to 22 modules in series, to create a battery voltage of 563 Vdc. Adding more parallel strings increases the system capacity.  As a result, you can reach system capacities of over 1 MWh.

## Product downloads

https://downloads.mgenergysystems.eu/lfp24v

# Specifications

## Charge

| | |
|---|---|
| Charge Voltage [1] | 28.2 V |
| Continuous Charge Current [2] | 304 A (1.0 C) |
| Maximum Charge Current (10 s) | 304 A (1.0 C) |
| Maximum Charge Voltage | 29.2 V |
| Recommended Charge Current | < 152 A (0.5 C) |

## Configuration

| | |
|---|---|
| Parallel Configuration | Up to 96 modules |
| Series Configuration | Up to 22 modules |

## Discharge

| | |
|---|---|
| Continuous Discharge Current [2] | 304 A (1.0 C) |
| Discharge Cut-Off Voltage | 22.8 V |
| Maximum Discharge Current [2] | 456 A (1.5 C) |
| Recommended Discharge Current | < 152 A (0.5 C) |
| Recommended Discharge Cut-Off Voltage | 24.0 V |

## Environmental

| | |
|---|---|
| Humidity (Non-Condensing) | ≤ 95 % |
| Operating Temperature Charge | 0 to +45 °C |
| Operating Temperature Discharge | -20 to +55 °C |
| Recommended Operating Temperature | +20 to +30 °C |
| Recommended Storage Temperature | +10 to +35 °C |

## Mechanical

| | |
|---|---|
| Cooling | Air, Convection |
| Data Connection | CAN Bus M12 |
| Enclosure Material | Metal |
| Height | 294 mm |
| IP-Protection Class | IP30 |
| Length | 685 mm |
| Power Connection | SurLok Plus |
| Weight | 54 kg |
| Width | 193 mm |

## Safety

| | |
|---|---|
| Balancing | Passive |
| Battery Management System (BMS) | Integrated Slave BMS |
| Compatible BMS Master Controller | MG Master HV 300<br>MG Master HV 500<br>MG Master HV 500 G2<br>MG Master LV 24-48 V<br>MG Master LV 72-96 V |
| Fuses [3] | None |

## Standards

| | |
|---|---|
| Approvals | IEC-EN62619 (ES-TRIN)<br>IEC-EN62620 (ES-TRIN) |
| EMC: Emission | EN-IEC 61000-6-3:2007/A1:2011/C11:2012 |
| EMC: Immunity | EN-IEC 61000-6-2:2019 |
| Low Voltage Directive | EN 60335-1:2012/AC:2014 |

## Technical Specifications

| | |
|---|---|
| Cell Configuration | 8S1P |
| Cycle Life DOD 80% [4] | > 4000 |
| Nominal Capacity | 304 Ah |
| Nominal Energy | 7.8 kWh |
| Nominal Voltage | 25.6 V |
| Specific Energy [5] | 145 Wh/kg |
| System Voltage | 24 V<br>48 V<br>72 V<br>96 V<br>≥ 120 V |
| Technology | LiFePO4 |

## Footnotes

1 This is the recommended charge voltage at 25 °C.

2 Duration is depending on battery temperature.

3 Fuses can be replaced with non-fused battery poles for high power applications. In this case each battery string needs to be fused elsewhere in the circuit.

4 End-of-Life is 70% of initial capacity at 25 °C. Cycle life is depending on the battery temperature. Higher battery temperature will result in lower number of cycles.

5 Including BMS and enclosure.

The specifications provided are for informational purposes only and are subject to change without notice. While every effort has been made to ensure the accuracy and completeness of the specifications, MG Energy Systems assumes no responsibility for any errors or omissions.

## Logistics

| | |
|---|---|
| HS code | 8507600090 |
| Country of origin | Netherlands |
| Shipping weight | 55.5 kg |
| Classified as dangerous goods | Yes |