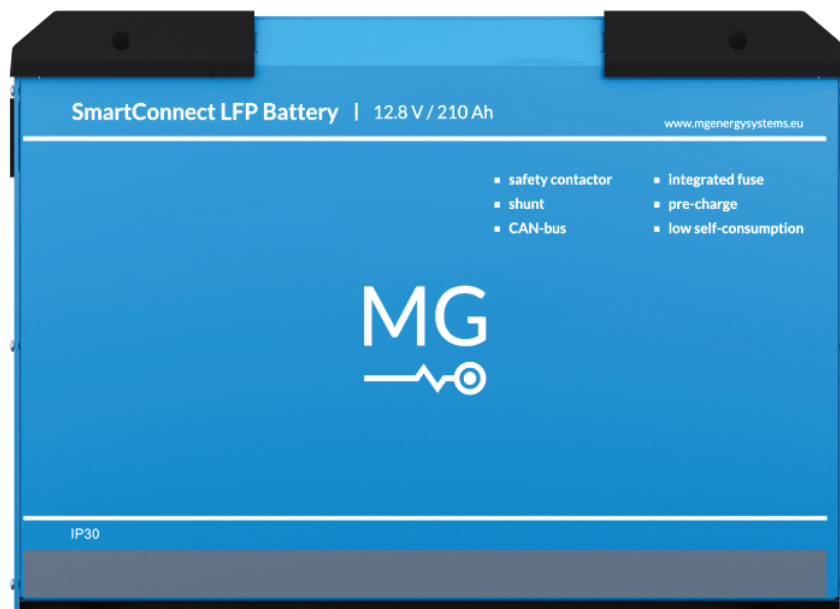


Product Data Sheet

2025-07-14



MG LFP Battery 12.8V/210Ah/2700Wh SmartConnect

MGLFPSC120210

Description

Where other manufacturers stop developing, MG starts with a complete new design. The result: the safest and most compatible 12 Vdc lithium-ion battery. The SmartConnect battery is the most intelligent lithium-ion battery in the market. This stand-alone MG battery is packed with features: Integrated BMS, built-in safety-contactor, pre-charge circuit and sensors everywhere. The second generation LiFePO4 chemistry in combination with the SmartConnect concept makes this battery the ultimate choice.

The MG SmartConnect battery system includes one or more SmartConnect batteries and the SmartLink Connect. The design and technology is based on our proven line of batteries in combination with the safest and most reliable BMS in the market.

Product downloads

<https://downloads.mgenergysystems.eu/lfp12v>

Specifications

Charge

| | |
|--|-----------------|
| Charge Voltage ¹ | 14.1 V |
| Continuous Charge Current ² | 210 A (1.0 C) |
| Maximum Charge Current (10 s) ³ | 315 A (1.5 C) |
| Recommended Charge Current ² | < 105 A (0.5 C) |

Configuration

| | |
|----------------------|--------------|
| Series Configuration | Not possible |
|----------------------|--------------|

Discharge

| | |
|--|-----------------|
| Continuous Discharge Current ² | 210 A (1.0 C) |
| Discharge Cut-Off Voltage ¹ | 12.0 V |
| Recommended Discharge Current ² | < 105 A (0.5 C) |

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 RJ45 |
| Enclosure Material | Metal |
| Height | 286 mm |
| IP-Protection Class | IP30 |
| Length | 395 mm |
| Power Connection | M8 Cable lug (20 Nm) |
| Weight | 22 kg |
| Width | 154 mm |

Safety

| | |
|----------------------------------|----------------------|
| Balancing | Passive |
| Battery Management System (BMS) | Integrated Slave BMS |
| Compatible BMS Master Controller | MG Master LV 12 V |
| Fuses ⁴ | 300 A, Fuse inside |

Standards

| | |
|-----------------------|--|
| EMC: Emission | EN-IEC 61000-6-3:2007/A1:2011/C11:2012 |
| EMC: Immunity | EN-IEC 61000-6-1:2007 |
| Low Voltage Directive | EN 60335-1:2012/AC:2014 |

Technical Specifications

| | |
|---------------------------------|-----------|
| Cell Configuration | 4S2P |
| Cycle Life DOD 80% ⁵ | > 3500 |
| Nominal Capacity | 210 Ah |
| Nominal Energy | 2.7 kWh |
| Nominal Voltage | 12.8 V |
| Specific Energy ⁶ | 123 Wh/kg |
| System Voltage | 12 V |
| Technology | LiFePO4 |

Footnotes

- 1 Voltage is depending on battery temperature and state of charge.
- 2 Current is depending on battery temperature and state of charge.
- 3 Current is depending on battery temperature and state of charge. Duration is depending on battery temperature.
- 4 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.
- 5 End-of-Life is 70% of initial capacity at 25 °C. Cycle life is depending on the battery temperature.
- 6 Higher battery temperature will result in lower number of cycles.
- 6 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 | 24 kg |
| Classified as dangerous goods | Yes |