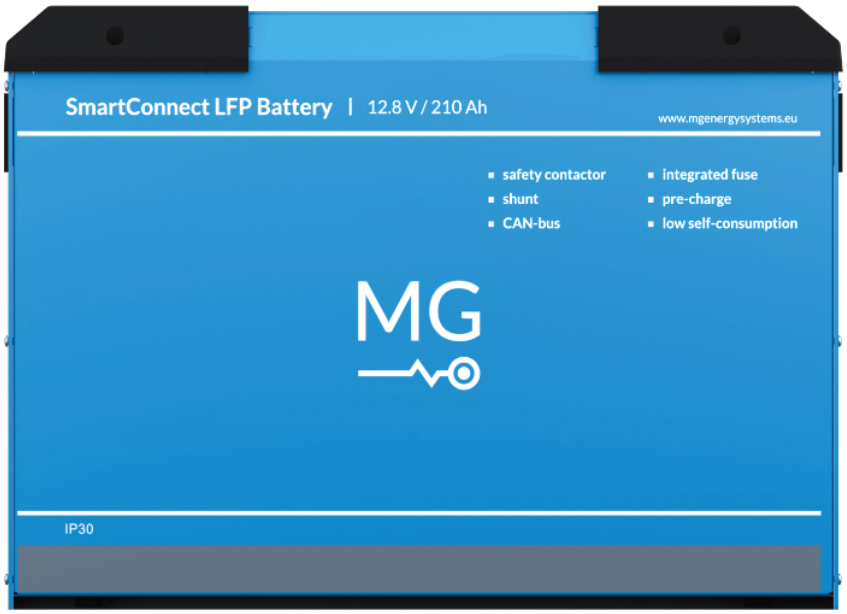
Product Data Sheet

2025-05-12



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
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. Higher battery temperature will result in lower number of cycles.

6 Including BMS and enclosure.

Logistics

HS code	8507600090
Country of origin	Netherlands
Shipping weight	24 kg
Classified as dangerous goods	Yes