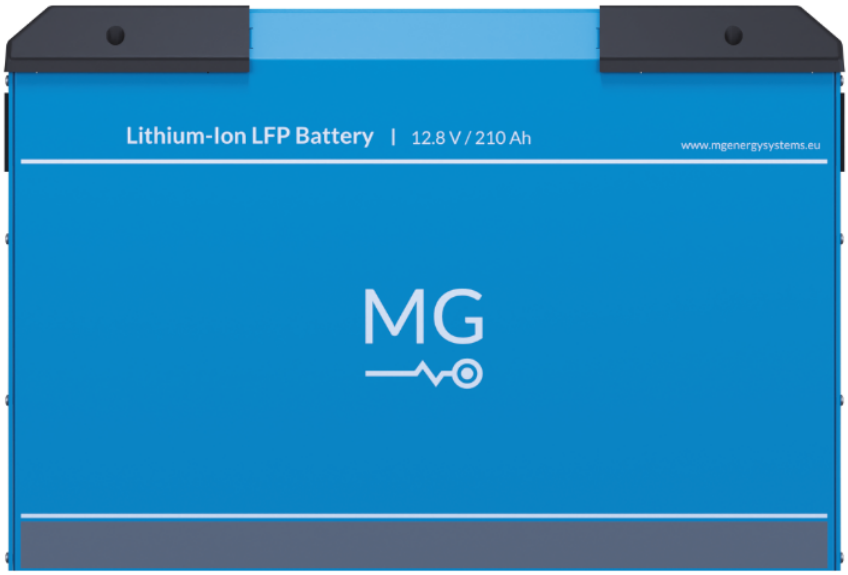
Product Data Sheet

2026-11-09



MG LFP Battery 12.8V/210Ah/2700Wh

MGLFP120210

Description

This robust 12 V battery is based on Lithium Iron Phosphate chemistry. As a result, these batteries are safe and reliable. Additionally, the next level technology of this chemistry results in a high energy density. In other words, it is the ultimate choice to replace your lead-acid batteries. Moreover, easily expand your battery storage system by connecting the LFP 12 V lithium-ion batteries in parallel. This increases the system capacity. To complete your MG energy storage system, include one or more MG Master battery management controllers. This ensures a plug-and-play installation and safe operation.

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)	315 A (1.5 C)
Recommended Charge Current	< 105 A (0.5 C)

Configuration

Parallel Configuration	Up to 96 modules
Series Configuration	Not possible

Discharge

Continuous Discharge Current [2]	210 A (1.0 C)
Discharge Cut-Off Voltage	12.0 V
Maximum Discharge Current [2]	420 A (2.0 C)
Recommended Discharge Current	< 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	275 mm
IP-Protection Class	IP40
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 [3]	300 A, Fuse inside

Standards

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	4S2P
Cycle Life DOD 80% [4]	> 3500
Nominal Capacity	210 Ah
Nominal Energy	2.7 kWh
Nominal Voltage	12.8 V
Specific Energy [5]	123 Wh/kg
System Voltage	12 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	23 kg
Classified as dangerous goods	Yes