Product Data Sheet

2025-07-24

MG LFP Battery 25.6V/230Ah/5800Wh IP

MGLFP243230

Description

The MG LFP Battery 24 V 230 IP contains the third generation LiFePO4 chemistry forms the basis of this safe and reliable battery. The IP65 plastic enclosure combined with its venting mechanism, SurLok connectors and M12 CAN-Bus, make the battery true IP rated. As extra safety level, the battery contains an exhaust system (installation optional). Installation 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]	230 A (1.0 C)
Maximum Charge Current (10 s) [3]	345 A (1.5 C)
Recommended Charge Current [2]	< 115 A (0.5 C)

Configuration

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

Discharge

Continuous Discharge Current [2]	230 A (1.0 C)
Discharge Cut-Off Voltage [1]	24.0 V
Maximum Discharge Current [3]	345 A (1.5 C)
Recommended Discharge Current [2]	< 115 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 M12
Enclosure Material	PC ABS
Height	295 mm
IP-Protection Class	IP65
Length	531 mm
Power Connection	SurLok Plus
Weight	41 kg
Width	206 mm

Safety

Balancing	Passive
Battery Management System (BMS)	Integrated Slave BMS
Compatible BMS Master Controller	MG Master HV 300 MG Master LV 24-48 V MG Master LV 72-96 V

Standards

Approvals	IEC-EN62619 (ES-TRIN) in progress IEC-EN62620 (ES-TRIN)
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	8S1P
Cycle Life DOD 80% [4]	> 3500
Nominal Capacity	230 Ah
Nominal Energy	5.8 kWh
Nominal Voltage	25.6 V
Specific Energy [5]	143 Wh/kg
System Voltage	24 V 48 V 72 V 96 V ≥ 120 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 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
Shipping weight	42.5 kg
Classified as dangerous goods	Yes