

Product Data Sheet

2025-08-02



MG RS230 Battery 51.2V/230Ah/11.8 kWh Marine

MGRS480230M



Description

The RS 230 lithium-ion battery offers high performance together with the highest safety standards. This LiFePO4 based battery is a Lloyds Type approved module*. The RS 230 has PowerLok shielded connectors. Furthermore, it contains a professional liquid thermal management system and a unique patented cell level propagation protection system. The combination of these safety and performance features make the RS battery suitable for large energy storage applications as well as smaller peak power packs. This makes the RS Series an extraordinary high performance battery module for hybrid or electric vehicles, vessels, industrial machinery and solar off-grid applications.

Thanks to the modular design, easily create 48 up to 900 Vdc systems to power all sorts of applications.

PLEASE NOTE:

Hose couplings need to be ordered separately, see often bought together.

*In progress, expected Q2 2025

Product downloads

https://downloads.mgenergysystems.eu/rslfp



Specifications

Charge

Charge Voltage 1 56.4 V

Continuous Charge Current 2 230 A (1.0 C)

Maximum Charge Current 2 230 A (1.0 C)

Recommended Charge Current 2 < 115 A (0.5 C)

Recommended Charge Current (air cooled) < 69 A (< 0.3C)

Configuration

Parallel Configuration Up to 32 modules
Series Configuration Up to 16 modules

Discharge

Continuous Discharge Current ² 230 A (1.0 C)

Discharge Cut-Off Voltage 1 48.0 V

Maximum Discharge Current 3 345 A (1.5 C)

Recommended Discharge Current 2 < 115 A (0.5 C)

Recommended Discharge Current (air cooled) < 69 A (< 0.3C)

Environmental

Humidity (Non-Condensing)≤ 95 %Operating Temperature Charge0 to +55 °COperating Temperature Discharge-20 to +55 °CRecommended Operating Temperature+20 to +30 °CRecommended Storage Temperature+10 to +35 °C

Mechanical

Cooling Air Convection or Liquid Cooling

Data Connection CAN-Bus M12

Height 288 mm

IP-Protection Class IP65

Length 653 mm

Power Connection PowerLok 300

Weight 95 kg
Width 389 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 NEN-EN-IEC 61000-6-3:2021

EMC: Immunity NEN-EN-IEC 61000-6-1:2019

Low Voltage Directive NEN-EN-IEC 60335-1:2024

Technical Specifications

Cell Configuration 16S1P

Cycle Life DOD 80% 4 > 4000

Nominal Capacity 230 Ah

Nominal Energy 11.8 kWh

Nominal Voltage 51.2 V

Specific Energy 5 123 Wh/kg

System Voltage 48 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.

Current is depending on battery temperature and state of charge. Duration is depending on battery

3 temperature.

End-of-Life is 70% of initial capacity at 25 °C. Cycle life is depending on the battery temperature.

- 4 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 95 kg

Classified as dangerous goods Yes