

# RS 230

LLOYDS  
in progress

IEC 62619  
EN 62620

UN38.3



MG

The RS 230 is a lithium-ion LiFePO4 battery that offers high performance together with the highest safety standards. It contains 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. Easily create 48 up to 900 Vdc systems to power all sorts of applications, thanks to the modular design.

- 3<sup>rd</sup> generation LiFePO4 chemistry
- Liquid Thermal Management
- Cell Level Propagation Protection System
- Pressure Relief Valve with Gas Exhaust
- Steel IP65 Enclosure
- High Voltage Interlock Circuit
- Integrated BMS

## THERMAL MANAGEMENT

The RS 230 battery module is equipped with a unique fluid based thermal management system. The integrated liquid cooling actively cools or heats all battery cells. This ensures that the battery cells are kept within a predefined temperature window.

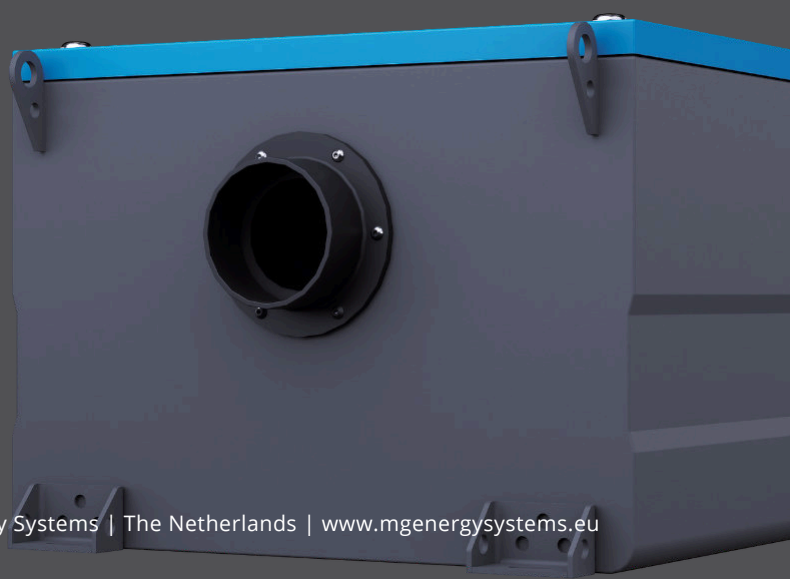
The thermal management system maintains an equal temperature across the entire system. Managing the temperature results in an improved cycle life and overall performance.

## HIGH PERFORMANCE BATTERY

- Consistent Battery Temperature
- Liquid Heating and Cooling
- Extended Cycle Life
- High Peak Charge and Discharge Currents



RS 230

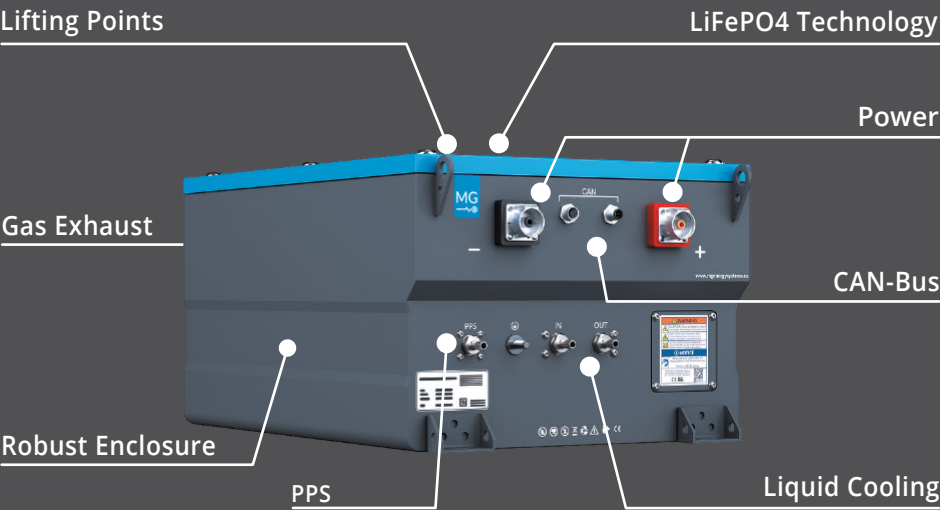


SYSTEM  
MODULARITY



>3 MWh  
SYSTEM CAPACITY

Up to 900 Vdc  
HIGH VOLTAGE SOLUTIONS



BATTERY MANAGEMENT SYSTEM

The Integrated Battery Management System measures all cell voltages and temperatures inside the battery module. This is communicated to the Master BMS through CAN-Bus, which controls balancing on both cell and module level.

PROPAGATION PROTECTION SYSTEM

The RS 230 battery enclosure includes a PPS connection. In case of a single cell thermal runaway event, the PPS fills the battery with a fluid to remove the heat as quickly as possible.

EXHAUST SYSTEM

A patented pressure relief exhaust connection. In case of a thermal runaway, the exhaust system automatically channels the released gasses to a safe area. this mechanism prevents other cells from overheating.

RS 230			
11.8 kWh	51 Vdc	95 kg	Up to 900 Vdc

