

IRON-V LFP51.2V100Ah - RM

Smart LiFePO4 Series



The IRON-V LFP51.2V100Ah is an advanced LiFePO4 energy storage solution designed for residential and commercial applications where reliability, safety, and long service life are essential. Featuring an integrated Smart Battery Management System (BMS), RS485 and CAN communication interfaces, and support for parallel connection of multiple units, it provides the flexibility and performance required by modern energy storage systems designed for installation in standard 19" rack cabinets.

BENEFITS

- ✦ Up to 4,000 cycles at 80% Depth of Discharge (DoD) and designed for a service life of up to 15 years, delivering high reliability and a reduced total cost of ownership (TCO).
- ✦ Rack mount in 19" Rack Cabinet.
- ✦ Lithium Iron Phosphate (LiFePO4) technology provides enhanced safety, stability, and long service life.
- ✦ Integrated Battery Management System (BMS) providing protection against overcharge, over-discharge, overcurrent, short circuits, and extreme temperatures.
- ✦ High energy efficiency for maximum utilization of stored energy and reduced system losses.
- ✦ Supports industry-standard communication protocols for seamless integration with inverters and energy management systems.
- ✦ Supports parallel connection of multiple battery units for easy system capacity expansion.

- ✦ Requires no routine maintenance, ensuring reliable and cost-effective operation.
- ✦ Supports advanced system monitoring and management capabilities.

APPLICATIONS

- ✦ Telecom Systems
- ✦ Solar Energy Storage Systems
- ✦ Hybrid Solar Energy Systems
- ✦ Emergency Power Systems
- ✦ Self-Consumption Energy Systems
- ✦ Renewable Energy Applications
- ✦ Distributed Energy Storage Systems

Model	Nominal Voltage (V)	Nominal Capacity (Ah)	Length (mm)	Width (mm)	Height (mm)	Weight (Kg)
V-LFP51.2V100Ah-RM	51.2	100	480	442	177	46.0