

LiFePO₄ Battery

Product Introduction

- LiFePO₄-Lithium Iron Phosphate Battery
- Up to 16 units in parallel (256 kWh)
- Easy Installation & Low Maintenance
- LED SoC indicator for easy monitoring



Product Features

Ultra-Long Cycle Life:

Premium LiFePO₄ cells deliver over 8,000 cycles at 90% DoD.

Advanced Multi-Protection BMS:

Patented BMS monitors voltage, current, and temperature via CAN/RS485. It safeguards against overcharge, short circuits, and thermal issues for top safety.

High-Efficiency Performance:

Supports easy inverter integration and power management in charging 0 – 45°C; discharging -20 – 45°C conditions.

User-Friendly Design:

Compact floor-standing unit with LED SoC indicator for easy monitoring. Enables parallel expansion and eco operation in 5–95% humidity for simple setups.

Technical Parameters

Model	PW-ESS-51.2/314-DC-B
Battery Type	LiFePO ₄
Nominal Voltage	51.2V
Voltage Range	43.2V - 58.4V
Nominal Energy	16kWh
Battery Capacity	314Ah
Charge/Discharge Current	Continuous:100A / Max:200A
Operating Temperature	Charge:0~45°C / Discharge:-20~45°C
Heating/Cooling Function	Supported(Optional)
Communication	CAN / RS485
Safety	Built-in fire-fighting module
Dimension (WxDxH)	540×240×781mm
Net Weight	118kg
Depth of Discharge (DoD)	90%
Cycle Life	≥8000
Expansion	Up to 16 units in parallel (256kWh)
Certifications	IEC 62619, EMC, UN 38.3, MSDS