



51.2V Air-cooled Rack Style Stackable Battery Pack

314Ah



Advanced Fire Protection

Pack-level aerosol suppression triggers instantly on thermal runaway, quenching fires via chemical inhibition, cooling & oxygen isolation against re-ignition.



Supports 1C discharge

Supports continuous 1C discharge with powerful output to meet peak load demands.



Grade A LFP cells

Excellent cell consistency, low internal resistance dispersion and long cycle life



INTRODUCTION

This product is a 16-series lithium iron phosphate energy storage plug-in box with a rated capacity of 314Ah and a rated voltage of 51.2V (single cell rated voltage: 3.2V). It adopts forced air cooling heat dissipation design and is equipped with a built-in intelligent BMU system, enabling full-range protections including cell voltage equalization, overcharge, overdischarge, overcurrent, short circuit and overtemperature. It also supports remote monitoring and multi-box series expansion to meet large-capacity power supply demands in diverse scenarios.

Adopting Grade A lithium iron phosphate cells, the product guarantees excellent cell consistency and stability. Compatible with various inverters, it is widely applicable to household energy storage, industrial energy storage, off-grid power supply and other fields.

HIGHLIGHTS



Safe
Multi-level Protection
Fire Linkage



Efficient
Intelligent Scheduling
Cost Reduction



Reliable
Modular Design
Flexible Maintenance

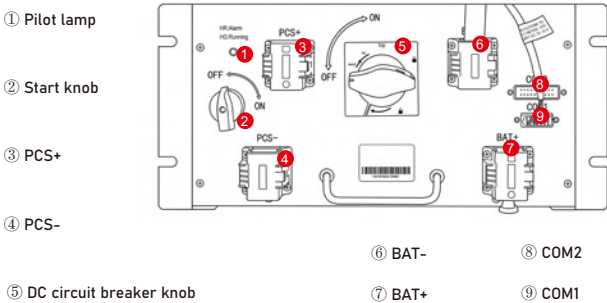


Smart
Remote Monitoring
Cloud-based Management

TECHNICAL SPECIFICATIONS

Battery Type	LiFePO4
Series-parallel Connection	16S Series Only
Rated Capacity	314Ah (0.5C discharge, 25 °C)
Rated Voltage	51.2V
Charging Voltage	51.2V (Balanced Charging)
Standard Charging Current	157A (0.5C)
Max Charging Current	200A
Rated Discharge Current	157A (0.5C)
Max Continuous Discharge Current	200A
Discharge Cut-off Voltage	46.4V
Cycle Life	≥8000 cycles (0.5C capacity retention ≥80%)
Operating Temperature Range	Charge: 0 °C~45 °C; Discharge: -20 °C~60 °C
Storage Temperature Range	-20 °C~50 °C
Cabinet Dimensions	494.8mm(W)×241.2mm(H)×765.8mm(D)
Weight	Approx. 120kg
IP Rating	IP20
Shell Material	SPCC

HIGH-VOLTAGE BOX DESCRIPTION



APPLICATION SCENARIOS



Peak-Valley Arbitrage



Demand Management



Backup Power Assurance



Solar-Storage-Charging Integration

BMS Functions: Overcharge/Overdischarge/Overcurrent/Overtemperature/Undertemperature/Insulation protection/Cell balancing/Data monitoring

