



51.2V Air-cooled
Rack Style Stackable Battery Pack 100Ah



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



Flexible expansion

Rack-mounted modular stacking design for easy installation and flexible capacity expansion.

This product is a lithium iron phosphate (LFP) I&C Energy Storage System designed and manufactured by TFL. Applicable to factories, commercial malls, industrial parks and other scenarios.

RACK STYLE STACKABLE BATTERY PACK

SAFE | EFFICIENT | RELIABLE | SMART



INTRODUCTION

This product is a 16-cell 100AH lithium iron phosphate (LFP) plug-in cabinet, utilizing high-consistency LFP cell modules connected in series. With a rated capacity of 100AH and a rated voltage of 51.2V, it is a modular, high-safety, and long-life energy storage power solution. Paired with our company's customized professional Battery Management System (BMS), the product features comprehensive charging/discharging protection, balancing management, and status monitoring capabilities. It can be directly installed in standard cabinets and is widely used in photovoltaic energy storage, UPS backup power systems, communication base stations, and industrial equipment power supply applications. Offering advantages such as easy installation, efficient operation and maintenance, and environmental sustainability, it complies with IEC62619, IEC61000, and GB/T 36276-2023 safety standards, providing stable and reliable DC power supply for various devices.

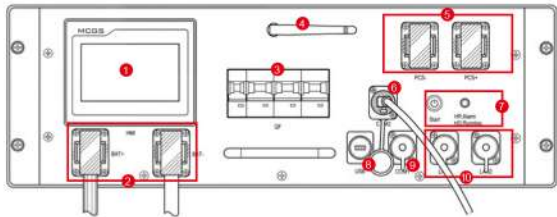
HIGHLIGHTS

- 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	LiFePO ₄
Serial-Parallel Configuration	16 series (no parallel)
Rated capacity	100AH (0.5C charge/discharge, 25°C)
Rated voltage	51.2V
Charging voltage	51.2 V (equilibrium charging)
Standard charging current	50A (0.5C)
Maximum charging current	50A
Max. continuous discharge current	100A
Discharge cutoff voltage	46.4V
Cycle life	≥6,000 cycles
Operating temperature range	Charging 0~45°C/Discharging -20~60°C
Storage temperature range	-20°C~50°C
Box size	532mm (w) × 133mm (h) × 554mm (d)
Weight	Approximately 50 kg
Levels of protection	IP20
Shell material	SPCC

HIGH-VOLTAGE BOX DESCRIPTION



- ① Display screen

② BAT+/BAT- Connector

③ DC open circuit breaker
- ④ WiFi Bluetooth Module

⑤ PCS+/PCS- Connector

⑥ COM2
- ⑦ start button

⑧ USB

⑨ COM1
- ⑩ LAN

APPLICATION SCENARIOS



BMS Functions: Overcharge, overdischarge, overcurrent, overheating, undercooling, insulation protection, cell balancing, data monitoring