

YOUR SAFE ENERGY

» Nominal Voltage: 512V
Nominal Energy: 50kWh



A+ Grade Lithium
Iron Phosphate Cells

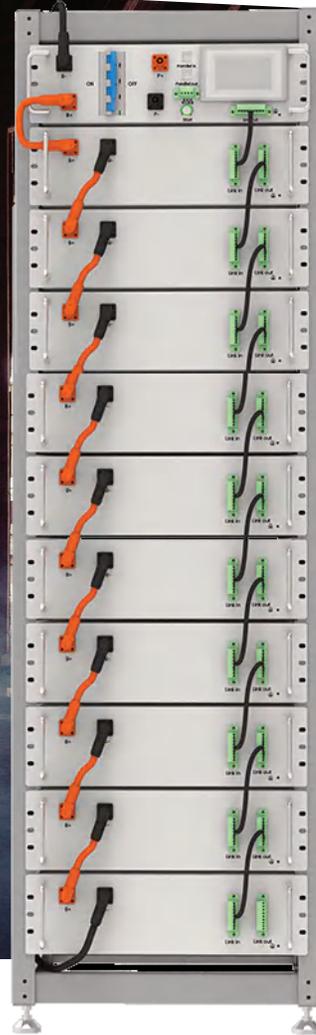


15-year Design Lifespan

Version: v1.3

CF-Powercab-5.12-50kWh

Max. discharging power: 1P



Product Advantages

Safety Technology

- A+ grade lithium iron phosphate.
- Battery management system with multi-level protection.
- Module-level endothermic decomposition and cooling fire extinguishing.
- BMS monitors the battery in real-time and provides early warning.

Easy to Install and Use

- Applications: Residential, commercial, industrial, off-grid, grid-tied, and self-consumption. Compatible with most high-voltage inverters on the market.
- Compatible with the "PYLON" protocol.

Energy Management System

- Emergency power supply
- Self-consumption
- Peak shaving
- Micro-grids
- Demand mitigation
- Price arbitrage

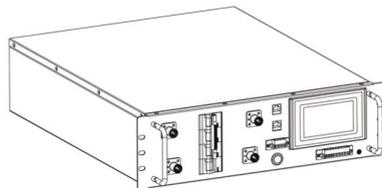
Flexible and Expandable

- The battery uses a modular design.
- Supports parallel connection of multiple battery racks.

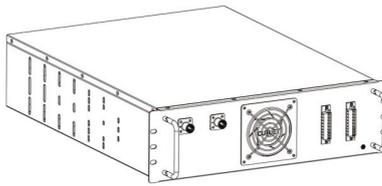
(2) IP Series System Components

- Max. discharging power: 1P
- Cooling with a fan

(2.1) LV-IESS-H4_RH5.12F



LV-IESS-H4



RH5.12F

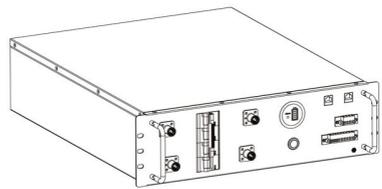
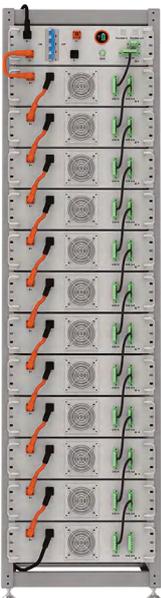
High Voltage Box

HMI: LCD Display
Operating Voltage: 250V-1000V
Nominal Charge/Discharge Current: 100A
Max. Charge/Discharge Current: 100A
IP Rating: IP20
Dimensions (W*H*D): 482*133*550mm
Weight: 18.6kg

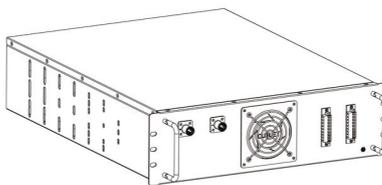
Battery Pack

Nominal Voltage: 51.2V
Nominal Energy: 5.12kWh
Nominal Capacity: 100Ah
Nominal Charge/Discharge Current: 100A
Max. Charge/Discharge Current: 100A
IP Rating: IP20
Dimensions (W*H*D): 482*133*580mm
Weight: 48.5kg

(2.2) LV-IESS-H3_RH5.12F



LV-IESS-H3



RH5.12F

High Voltage Box

HMI: Indicator Light
Operating Voltage: 250V-1000V
Nominal Charge/Discharge Current: 100A
Max. Charge/Discharge Current: 100A
IP Rating: IP20
Dimensions (W*H*D): 482*133*550mm
Weight: 18.2kg

Battery Pack

Nominal Voltage: 51.2V
Nominal Energy: 5.12kWh
Nominal Capacity: 100Ah
Nominal Charge/Discharge Current: 100A
Max. Charge/Discharge Current: 100A
IP Rating: IP20
Dimensions (W*H*D): 482*133*580mm
Weight: 48.5kg

(2.3) IP Technical Parameters

Modell No.	CF-PowerCab-5.12-50kWh
Electrical Characteristics	
Nominal Energy	50kWh
Nominal Voltage	512V
Battery Chemistry	Lithium Iron Phosphate(LiFePO4)
Cycle Life	≥6000 cycles(@25°C, 0.5C-rate)
Cell Specification	3.2V 100Ah
Battery Module Spec.	51.2V 100Ah
Rack Configuration	1P160S
Number of Racks	1
Operating Voltage	500V~584V
Charge&Discharge	
Maximum Continuous Charging Current	100A(25°C~45°C)
Maximum Continuous Discharging Current	100A
Maximum Discharging Current	100A
Safety	
Fire Protection	Aerosol fire extinguishing
Environmental	
Environment	Indoor
Altitude	Up to 3000 meters
IP Rating	IP20
Charging Temperature	0°C to 50°C
Discharging Temperature	-20°C to 50°C
Storage Temperature	-10°C to 45°C
Relative Humidity	0-95%
Temperature Control System	Natural cooling with fan
Mechanical	
Dimensions (W*H*D)	530mm*2,000mm*596mm
Weight	Approximately 667kg
Installation	Rack installation

