

ECONAUTS LOW VOLTAGE LFP BATTERIES VAULT 10- EU Version



LiFePO₄ Battery Pack Datasheet

Model: VAULT-10
Nominal Voltage: 51.2V
Capacity: 8.858kWh

Overview

This datasheet details the specifications and performance of the VAULT-10 LiFePO₄ battery pack, built using IFP60173185 cells in a 16S configuration. It is designed for energy storage applications requiring high safety, long cycle life, and robust performance.

Nominal Voltage	51.2 V
Nominal Capacity	173 Ah
Energy	8.858 kWh
Configuration	16S
Cell Model	IFP60173185
Cycle Life	≥5000 cycles @80% DOD (0.5C/0.5DC, 25°C)
Standard Charge Voltage	57.6 V
Cut-off Voltage	48 V
Charge Current	85 A (0.5C Standard)
Discharge Current	173 A (1C Peak)
Operating Temperature	Charge : 0–65°C, Discharge : -20–65°C
Dimensions	80x42x17cm
Weight	Approx. 72 kg
BMS	Integrated, 16S, balancing & protection
Certifications	UN38.3, CE, RoHS (cell level)

Safety Features

- Overcharge, over-discharge, over-current, and short-circuit protection
- Cell-level temperature monitoring
- Fire-resistant LiFePO₄ chemistry
- RS-485/ CAN-bus and UART/ Bluetooth communication
- JK Native Smart BMS Protocol (Emulated PYLONTECH)

Applications

- Residential and commercial energy storage systems (ESS)
- Telecom backup power
- Renewable energy integration
- Off-grid and backup systems

Battery Management System (BMS)

This wall-mounted battery pack uses an advanced active balancing JK BMS with built-in Bluetooth and colored touchscreen for real-time monitoring, configuration, and system integration.