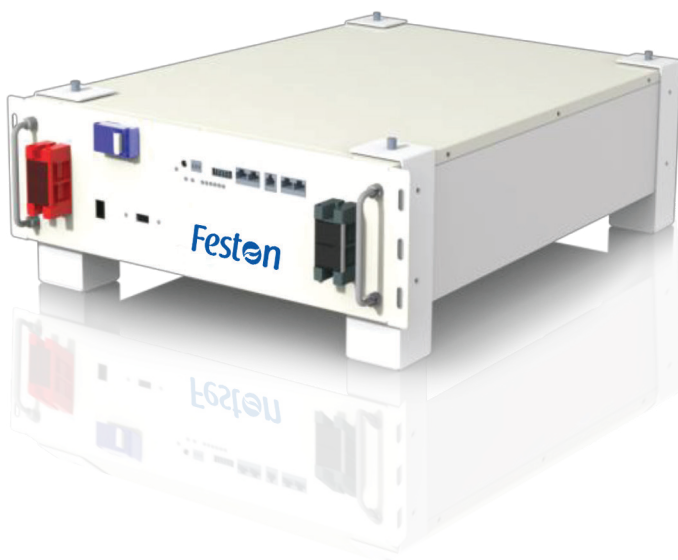


Battery

FES-5K-LVC



High Performance & Long Life

Delivers over 3500 cycles at 90% Depth of Discharge (DoD)

Environment & Safety Focused

IP20-rated-suitable for indoor applications

Robust & Compact Design

Enclosure: CRCA powder-coated
Connectors: Terminal blockconnector

Smart Connectivity Options

RS485 , CAN

Battery Management Systems (BMS)

16S 100A intelligent BMS, Real-timeprotectionagainst overcharge, over-discharge, short circuit, temperature spikes, and thermal runaway,



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Technical Data

Model		FES-5K-LVC
Main Parameter		
Battery Chemistry		LFP
Built-in Circuit Breaker		Yes
Capacity (Ah)		100
Nominal Voltage (V)		51.2
Operating Voltage (V)		40-58.4
Nominal Energy (kWh)		5.12
Usable Energy (kWh)		4.6
Max charging /discharging current (A)		50 A
Max continuous discharge current		0.5C @ 25 ± 2 °C
Max continuous power (kW)		2.5
Other Parameter		
Recommend Depth of Discharge		90%
Dimension (L*W*H, mm)		595*482*145
Weight Approximate(kg)		45-50
IP Rating of Enclosure		IP20
Operating Temperature (°C)		0-55
Recommend Operating Temperature (°C)		Charge:0-55, Discharge :-20-60
Storage Temperature		At 50% SOC, 25-45°C
Humidity		90% RH
Altitude		<2000 m
Cycle Life		3500
Installation		Wall, stack, & rack mount
Communication port		RS485, CAN
Warranty Period		5 Years
Energy over lifetime (kWh)		14000

DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

Description of the battery

The lithium iron phosphate (LiFePO₄) battery series is an advanced energy storage product engineered for stable and reliable power supply across diverse applications. Its design makes it particularly suitable for The system integrates an intelligent Battery Management System (BMS) that provides real-time monitoring of cell voltage, current, and temperature. The BMS also performs passive cell balancing to enhance consistency and maximize service life.