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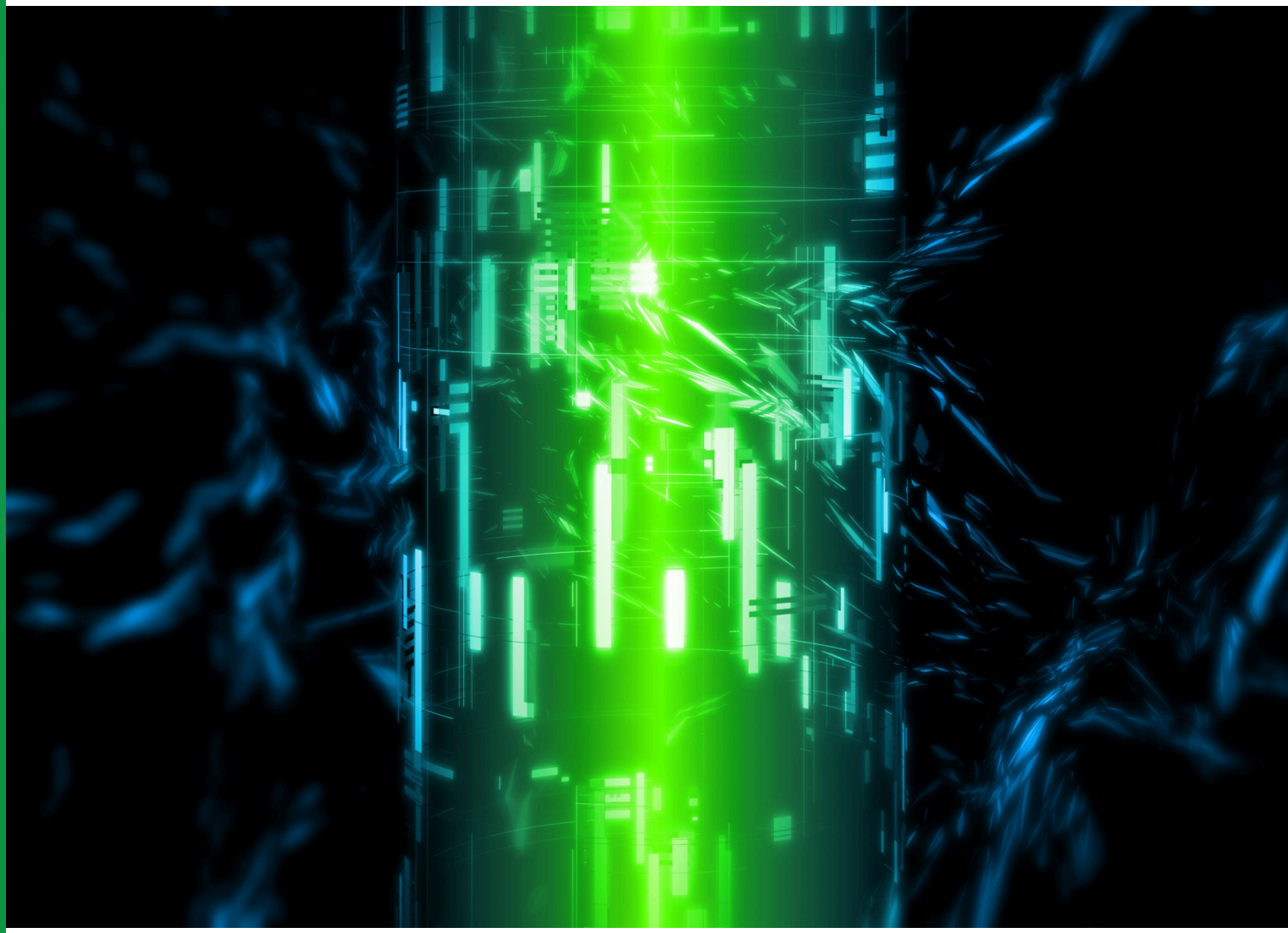
EFBM-12150

$LiFePO_4$ Batteries



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LiFePo4 Batteries

LITHIUM BATTERY
EFBM-12150

Technical specifications

EFBM-12150
1900Wh

Using state of high power cell technology the lithium is designed for environmentally sensitive areas that require enhanced cycle life capabilities in commercial, industrial, residential and private applications. The maintenance free construction and advanced design features makes the lithium Series the definitive choice for a wide variety of markets; Solar and Renewable Energy Storage; Electric Vehicle and Golf cart; Industrial equipment, Floor Machines, Forklifts, Areas lifts and Robotics; Marine, RV and no-idle solutions; Mobility and Medical Equipment, Telecom, Broadband and Cable TV; UPS systems.

Aplications


FLV


Comunication System


Solar Power System


Portable Solar System


Smart Home

Battery Specifications

Code	EFBM12V150–1900Wh	Code	EFBM12V150–1900Wh
Battery Type–Chemistry	$LiFePO_4$	Recommended Discharge Voltage	11.5 ± 0.20V
Nominal Voltage	12.8V	Max Discharge Voltage	10 ± 0.20V
Amp Hour Capacity	150Ah	Max Discharge Current	100A
Energy Density	1920Wh	Pulse Discharge Current	120A ± 3S
Dimensions (LxWxH)	363*212*230mm	Internal Resistance–Milliohms	<80mΩ
Weight	14kg	Efficiency–Round Trip	<99.5%
Terminal Type	M8	Self Discharge per Month	<3%
Terminal Torque	8.5 NM	Max Parallel Connections	4PCS
Case Material	ABS	Series Connections	4PCS
BMS Build-in	Yes	Case IP Rating	IP65
Recommended Charge Voltage	14.6 ± 0.20V	Design Life	15 Years
Max Charge Voltage	14.8 ± 0.20V	Cycle Life (1°C, 25°C @80%DOD)	>4000 cycles
Recommended Charge Current	25A	Cycle Life (0.5C, 25°C @80%DOD)	>6000 cycles
Max Charge Current	100A	Discharge Temperature	23 to 65°C
Charge Current (0 to–10°C)	<0.1°C	Charge Temperature	–3 to 65°C
Charge Current (–20 to–10°C)	<0.05°C	Storage Temperature	–20 to 45°C

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Technical specifications

BMS Specifications

BMS Protection Range	Over (Voltage, Current, Temperature Management) and Cell Balance		
Over Charging Cell Protection	>3.80	± 0.05V	Delay. 2 ± 0.5S
Over Charging Pack Warning	>59	± 0.20V	
Over Charging Pack Protection	>30	± 0.20V	Delay. 2 ± 0.5S
Over Charging Current Warning	>100	± 2.0A	
Over Charging Current Protection 1	>102 <112	± 2.5A	Delay. 20 ± 1.0S
Over Charging Current Protection 2	≥112	± 2.5A	Delay. 3 ± 1.0S / Turning to 10A
Over Charging Temp Protection 1	<5 or >70	± 3℃	Release: 0 or <60 ± 3℃ / Delay. 2 ± 0.5S
Over Discharging Cell Protection	<2.5	± 0.05V	Delay. 2 ± 0.5S
Over Discharging Pack Protection	<45	± 0.20V	Delay. 2 ± 0.5S
Over Discharging Current Warning	>102	± 2.5A	
Over Discharging Current Protection 1	>102 <122	± 2.5A	Delay. 30 ± 1.0S
Over Discharging Current Protection 2	≥122	± 2.5A	Delay. 3 ± 1.0S
Over Discharging Temp Protection 1	<-25 or >75	± 3℃	Release: >–20 or <70 ± 3℃
PCB Temp Protection	>95	± 3℃	Release: <80 ± 3℃ / Delay. 2 ± 0.5S
Cell Balance Start	3.4	± 0.05V	Cell voltage difference <20mV – Passive balance
Balance Current	150	± 10mA	Delay. 2 ± 0.5S
Short Circuit			
Power Consumption	<300μA		Switch-off mode Storage & transportation
	<500μA		Sleep mode Protection & stand-by
	<15mA		Operating mode Operating
	<28mA		Operating mode Low voltage to start Pre-charge
Temperature Accuracy	±2℃		Measuring range 40–100℃
Voltage Accuracy	±15mV		For cells and module
Current Accuracy	FSC ±5%		Measuring range –200~+200A
SOC	±5%		Integral calculation

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