

# EG4<sup>®</sup> LiFePOWER4 24V LITHIUM BATTERY

---



EG4 LiFePower4 batteries offer second to none price to performance. Get peace of mind knowing these batteries are designed to last more than 7000 deep charge and discharge cycles; beyond 15 years with an 80% depth of discharge daily!

**BUILT-IN  
200A BMS**

**5.12kWh  
CAPACITY**

**ON-BOARD  
FIRE  
ARRESTORS**

## PC MONITORING SOFTWARE

Hook the battery up to your PC or laptop to read real-time data from your batteries using the BMS Test software.

## PARALLEL UP TO 16 BATTERIES

Get the most power possible! Up to 81.9kWh of storage while maintaining closed-loop communications.

## DUAL ON-BOARD FIRE ARRESTORS

Offers fail-safe operation in high-risk environments and protects against rare hardware failures on high voltage solar charge controllers.

## WELDED PRISMATIC CELL CONNECTIONS

Never worry about losing power due to a loose internal connection between cells.

## SERVER-RACK DESIGN

Designed with 4U server rack mounting in mind which allows for convenient storage options.

## TECHNICAL SPECIFICATIONS

MODULE OPERATING PARAMETERS			
TOTAL ENERGY STORAGE			5.12kWh
VOLTAGE			25.6V
CAPACITY			200Ah
CHARGING VOLTAGE (BULK/ABSORB)			28.1V (+/- 0.2V)
FLOAT			27V (+/-0.2V)
LOW DC CUTOFF		23.5 – 22V (Depending on load – start high, lower if needed)	
MAX. CHARGING CURRENT			100A (30 – 50A recommended)
MAX. DISCHARGING CURRENT			100A
ENVIRONMENTAL PARAMETERS			
CHARGING RANGE			32°F - 113°F (0°C - 45°C)
DISCHARGING RANGE			-4°F - 122°F (-20°C - 50°C)
STORAGE RANGE (OPTIMAL)			-4°F - 122°F (-20°C - 50°C)
INGRESS PROTECTION			IP21
ALTITUDE			<9843 ft. (3000m)
CHARGING/DISCHARGING PARAMETERS			
CHARGE	SPEC	DELAY	RECOVERY
CELL VOLTAGE PROTECTION	3.65V	1 sec	3.6V
MODULE VOLTAGE PROTECTION	29.2V	1 sec	28.8V
CHARGE OVER CURRENT 1	>100A	20 sec	
CHARGE OVER CURRENT 2	≥120A	2 sec	
TEMPERATURE PROTECTION	<32°F or >131°F (<0°C or >55°C)	1 sec	
DISCHARGE	SPEC	DELAY	RECOVERY
CELL VOLTAGE PROTECTION	2.5V	1 sec	2.7V
MODULE VOLTAGE PROTECTION	20.0V	1 sec	21.6V
DISCHARGE OVER CURRENT 1	>100A	10 sec	60 sec
DISCHARGE OVER CURRENT 2	>150A	3 sec	60 sec
SHORT CIRCUIT	>250A	1 sec	
TEMPERATURE PROTECTION	<-4°F or >140°F (<-20°C or >60°C)	1 sec	
BMS	PARAMETER		CONDITION
PCB TEMPERATURE PROTECTION	>203°F (>95°C)	Delay: 1 sec	Recovery: <167°F (<75°C)
CELL BALANCE	120mA	Passive Balance	Cell Voltage Difference >40mV
TEMPERATURE ACCURACY	3%	Cycle Measurement	Measuring Range -40°F - 212°F (-40°C - 100°C)
VOLTAGE ACCURACY	0.5%	Cycle Measurement	For Cells & Module
CURRENT ACCURACY	3%	Cycle Measurement	Measuring Range -200A – 200A
SOC	5%	–	Integral Calculation
POWER CONSUMPTION	Sleep & Off Mode	<300uA Delay: 1 sec	Storage/Transport/Standby
	Operating Mode	<25mA	Charging/Discharging
COMMUNICATION PORTS		RS485	Can be Customized
BATTERY HEATER SPECIFICATIONS			
PARAMETER	SPEC	CONDITION	
VOLTAGE	56V	–	
POWER CONSUMPTION	224W	–	
INTERNAL BATTERY TEMPERATURE	≤32°F (0°C) / ≥41°F (5°C)	Heat On/Heat Off	
PHYSICAL SPECIFICATIONS			
DIMENSIONS (H×W×D)		6.1 in.×17.4 in.×18.5 in. (155mm×442mm×470mm)	
WEIGHT		101 lbs. (45.9kg)	