

# EG4<sup>®</sup> LiFePOWER4 48V LITHIUM BATTERY

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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!

5.12 kWh  
STORAGE  
CAPACITY

BUILT-IN BMS

UL 1973  
LISTED  
UL 9540A

## CLOSED LOOP COMMUNICATIONS

Compatible with EG4, Schneider, and Growatt inverters.

## PC MONITORING SOFTWARE

See real-time statistics of your battery.

## PARALLEL UP TO 16 BATTERIES

Get the most power possible! Up to 81.9 kWh while maintaining BMS communications.

## DUAL ON-BOARD FIRE ARRESTORS & BUILT-IN CIRCUIT BREAKER

Offers fail-safe operation in high-risk environments and protects against rare hardware failure when using high voltage solar charge controllers.

## RACK-MOUNT DESIGN

4U server rack mounting makes the battery convenient to store and use.

## TECHNICAL SPECIFICATIONS

MODULE OPERATING PARAMETERS			
TOTAL ENERGY STORAGE			5.12kWh
VOLTAGE			51.2V
CAPACITY			100Ah
CHARGING VOLTAGE (BULK/ABSORB)			56.2V (+/- 0.2V)
FLOAT			54V (+/- 0.2V)
SOC CUTOFF			20%*
MAX. CHARGING CURRENT		100A (30 - 50A recommended)	
MAX. DISCHARGING CURRENT			100A
ENVIRONMENTAL PARAMETERS			
CHARGING RANGE			32°F - 122°F (0°C - 50°C)
DISCHARGING RANGE			-4°F - 131°F (-20°C - 55°C)
STORAGE RANGE (OPTIMAL)			32°F - 113°F (0°C - 45°C)
INGRESS PROTECTION			IP21
ALTITUDE			<9843ft. (3000m)
BMS PARAMETERS			
CHARGE	SPEC	DELAY	RECOVERY
CELL VOLTAGE PROTECTION	3.65V	1 sec	3.6V
MODULE VOLTAGE PROTECTION	58.4V	1 sec	57.6V
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	40.0V	1 sec	43.2V
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	100mA	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: -200 - 200A
SOC	5%	-	Integral Calculation
POWER CONSUMPTION	Sleep & Off Mode	<300uA Delay: 1 sec	Storage/Transport
	Operating Mode	<14mA	Charging/Discharging
COMMUNICATION PORTS	RS485		Can be Customized
PRODUCT DIMENSIONS			
EXTERIOR DIMENSIONS (H×W×D)	6.1 in.×17.4 in.×18.5 in. (155mm×442mm×470mm)		
WEIGHT	102 lbs. (46.3kg)		

\*EG4 recommends this value be set no lower than 20% to maintain the recommended 80% depth of discharge.