

EG4[®] LiFePOWER4 48V 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!

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.