



EG4[®] LIFEPOWER4 24V V2 BATTERY

EG4 Lithium Iron Phosphate 25.6V (24V) 5.12kWh battery with 200A internal BMS, composed of UL recognized prismatic cells connected in series tested at >6,000 deep discharge cycles to 80% DoD. Reliable and rigorously tested with a 99% operating efficiency, fully charge and discharge this battery daily for over 15 years without issue.

**EASY TO ACCESS
BMS SWITCH**

***10-YEAR
WARRANTY**

**DUAL ON-BOARD
FIRE ARRESTORS**

>6,000 CYCLES

Charge and discharge confidently with batteries built for durability and a long lifespan using 80% DoD (Depth of Discharge).

*10-YEAR WARRANTY

Have peace of mind knowing the product has a 10-year standard warranty.

BMS ON/OFF SWITCH

Enjoy a hassle-free experience with the BMS ON/OFF switch. Easily adjust the inverter protocol or place batteries into standby without the need to toggle the breaker.

ENHANCED SAFETY FEATURES

Dual On-Board fire arrestors allow for added peace of mind during operations.

PARALLEL UP TO 64 BATTERIES

For maximum power, the 6 DIP switch option allows up to ~327.7kWh of storage while in parallel, preserving BMS communications.

**For information regarding warranty registration on EG4[®] Electronics products, please navigate to <https://eq4electronics.com/warranty/> and select the corresponding product to begin the registration process.*



TECHNICAL SPECIFICATIONS

MODULE OPERATING PARAMETERS			
PARAMETER	BMS	RECOMMENDED	
VOLTAGE	25.6V	-	
CAPACITY	200Ah	-	
CHARGING VOLTAGE (BULK/ABSORB)	28.0 ± 0.4V	-	
SOC CUTOFF	22.4V	20%*	
CHARGING CURRENT	200A (Max. continuous)	30A	
DISCHARGING CURRENT	200A (Max. continuous)	-	
MAXIMUM CONTINUOUS DISCHARGE RATE	5.12kW	-	
NAMEPLATE ENERGY CAPACITY	5.12kWh	-	
BMS PARAMETERS			
CHARGE	SPEC	DELAY	RECOVERY
CELL VOLTAGE PROTECTION	3.8V	1 sec	3.45V
MODULE VOLTAGE PROTECTION	30.0V	1 sec	27.6V
OVER CHARGING CURRENT 1	>220A	10 sec	-
OVER CHARGING CURRENT 2	≥250A	3 sec	-
TEMPERATURE PROTECTION	<23°F or >158°F <-5°C or >70°C	1 sec	>41°F or <140°F >5°C or <60°C
DISCHARGE			
CELL VOLTAGE PROTECTION	2.3V	1 sec	3.1V
MODULE VOLTAGE PROTECTION	22.4V	1 sec	24.0V
OVER CHARGING CURRENT 1	>220A	30 sec	60 sec
OVER CHARGING CURRENT 2	>300A	5 sec	60 sec
SHORT-CIRCUIT	>500A	<0.1 mS	-
TEMPERATURE PROTECTION	<-4°F or >167°F <-20°C or >75°C	1 sec	>14°F or <149°F >-10°C or <65°C
PCB TEMP PROTECTION	>221°F (>105°C)	1 sec	<176°F (<80°C)

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

GENERAL SPECIFICATIONS			
PARAMETER	SPEC	TYPE	CONDITION
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	Measurement Range +/-200A
SOC	5%	-	Integral Calculation
POWER CONSUMPTION (SLEEP & OFF MODE)	<300uA	-	Storage/Transport/Standby
POWER CONSUMPTION (OPERATING)	<20mA	-	Charging/Discharging
COMMUNICATION PORTS	RS485/CAN	-	Customizable
MAXIMUM MODULES IN SERIES		1	
MAXIMUM MODULES IN PARALLEL		64	
DIMENSION (H×W×D)	6.1×19×17.4 in. (155×442× 470 mm)		
WEIGHT	99.2 lbs. (45 kg)		
ENVIRONMENTAL PARAMETERS			
CHARGING RANGE	32°F – 113°F (0°C – 45°C)		
DISCHARGING RANGE	-4°F – 122°F (-20°C – 50°C)		
STORAGE RANGE	-4°F – 122°F (-20°C – 50°C)		
INGRESS PROTECTION	IP21		

CHANGELOG

Version 1.2.1

- Removed cert logos from table.
- Added additional warranty information

Version 1.1

- Modified max recommended charge current from 100 to 30A
- Added additional certification logos to cover page

Version 1.0

- First version release