

# EG4<sup>®</sup> LL 12V 400AH SERVER RACK BATTERY



The performance and longevity of our EG4 batteries are second to none! Get peace of mind knowing our batteries are designed to last for more than 7,000 deep charge and discharge cycles and have a life cycle of more than 15 years with an 80% depth of discharge daily!

**BUILT IN BMS  
200A**

**\*10-YEAR  
WARRANTY**

**STORAGE  
CAPACITY  
5.12KWH**

## DUAL ON-BOARD FIRE ARRESTORS

Provide fail-safe operation in high-risk environments and safeguard against rare hardware failure on high-voltage solar charge controllers.

## REAL-TIME STATISTICS

Using Bluetooth integration with a customized app and PC monitoring software.

## NEW, MORE POWERFUL BMS

Handles heavier loads with ease, parallels up to 16 batteries for more than 80kWh of storage, and communicates with 12V Victron systems for added functionality.

*\*For information regarding warranty registration on EG4<sup>®</sup> Electronics products, please navigate to <https://eg4electronics.com/warranty/> and select the corresponding product to begin the registration process.*



## SPECIFICATION SHEET

MODULE OPERATING PARAMETERS			
VOLTAGE			12.8V
CAPACITY			400Ah
CHARGING VOLTAGE (BULK/ABSORB)			14.0V (+/-0.2V)
FLOAT			13.5V (+/-0.2V)
SOC CUTOFF			20%*
CHARGING CURRENT			200A (Max. Continuous)
DISCHARGING CURRENT			200A (Max. Continuous)
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			IP20
BMS PARAMETERS			
CHARGE	SPEC	DELAY	RECOVERY
CELL VOLTAGE PROTECTION	3.8V	1s	3.45V
MODULE VOLTAGE PROTECTION	15.0V	1s	13.8V
OVER CHARGING CURRENT 1	>220A	10s	-
OVER CHARGING CURRENT 2	≥250A	3s	-
TEMPERATURE PROTECTION	<23°F or >158°F <-5°C or >70°C	1s	<41°F or >149°F >5°C or 65°C
DISCHARGE			
CELL VOLTAGE PROTECTION	2.3V	1s	3.1V
MODULE VOLTAGE PROTECTION	9.6V	1s	12.0V
OVER CHARGING CURRENT 1	>220A	30s	60s
OVER CHARGING CURRENT 2	>380A	3s	60s
SHORT-CIRCUIT	>775A	<0.1mS	-
TEMPERATURE PROTECTION	<-4°F or >167°F <-20°C or >75°C	1s	>14°F or <149°F >- 10°C or <65°C
PCB TEMP PROTECTION	>221°F (>105°C)	1s	<176°F (<80°C)
GENERAL SPECIFICATIONS			
PARAMETER	SPEC		CONDITION
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	Measurement Range +/-200A
SOC	5%	-	Integral Calculation
POWER CONSUMPTION (SLEEP & OFF MODE)	<300uA		Storage/Transport/ Standby
POWER CONSUMPTION (OPERATING)	<14mA		Charging/Discharging
COMMUNICATION PORTS	RS485/CAN		Customizable
BLUETOOTH MONITORING	Customized EG4 App		
MAXIMUM MODULES IN PARALLEL	16		
DIMENSION (H×W×D)	6.1 in×19 in×20.2 in (15.5 cm×48.2 cm×51.3 cm)		
WEIGHT	98.1 lbs. (44.5 kg)		

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