EG4® 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.



EG4 ELECTRONICS

SPECIFICATION SHEET

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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			2	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	SPI	EC	DELAY	RECOVERY
CELL VOLTAGE PROTECTION	3.8	3V	1s	3.45V
MODULE VOLTAGE PROTECTION	15.0	0V	1s	13.8V
OVER CHARGING CURRENT 1	>22	20A	10s	-
OVER CHARGING CURRENT 2	≥25	60A	3s	-
TEMPERATURE PROTECTION	<23°F or	>167°F	1s	<41°F or >149°F
	<-5°C or	r >75°C	15	>5°C or 65°C
DISCHARGE			1s	0.434
CELL VOLTAGE PROTECTION		2.3V		3.1V
MODULE VOLTAGE PROTECTION		9.6V		12.0V
OVER CHARGING CURRENT 1	>220A		30s	60s
OVER CHARGING CURRENT 2	>380A		3s	60s
SHORT-CIRCUIT			<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	9	SPEC		CONDITION
CELL BALANCE	100mA	Passive Balance		tage Difference >40mV
TEMPERATURE ACCURACY	3%	Cycle Measurement	N	leasuring Range -40°F – 212°F (-40°C – 100°C)
VOLTAGE ACCURACY	0.5%	Cycle Measurement		For Cells/Module
		•	Me	asurement Range
CURRENT ACCURACY	3%	Cycle Measurement		+/-200A
SOC	5%	-	In	tegral Calculation
POWER CONSUMPTION (SLEEP & OFF MODE)	<300uA			ge/Transport/ Standby
POWER CONSUMPTION (OPERATING)	<14mA		Cha	arging/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.