EG4® LL-S 48V 100AH

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!

SUPPORTED E-STOP FUNCTIONALITY

*10-YEAR WARRANTY UL 1973 LISTED ETL CONFORMS TO UL 9540A

7,000 DEEP-CYCLE CELLS

Charge and discharge with confidence thanks to our long-life batteries.

*10 YEAR WARRANTY

Have peace of mind knowing we will be there to take care of you should something go wrong!

SELECTABLE CLOSED LOOP COMMUNICATIONS

Compatible with EG4, Schneider, Sol-Ark, Victron, Growatt, Megarevo, Luxpower, and Deye inverters.

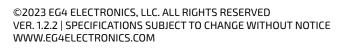
ENHANCED SAFETY FEATURES

E-Stop functionality offers fail-safe operation in potentially high-risk environments. Dual On-Board fire arrestors allow for added peace of mind during operations.

PARALLEL UP TO 64 BATTERIES

For maximum power, our 6 DIP switch option allows you to have 327.7 kWh while preserving BMS communications.





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



EG4 ELECTRONICS

SPECIFICATION SHEET

MODULE OPERATING PARAMETERS					
PARAMETER		BMS	RECOMMENDED SETTING		
VOLTAGE		51.2V		NA	
CAPACITY		100Ah		NA	
CHARGING VOLTAGE (BULK/ABSORB)		56.8V		56.2V (+/-0.2V)	
FLOAT	NA			54V (+/-0.2V)	
SOC CUTOFF	-			20%*	
CHARGING CURRENT	100A (Max. continuous)			30-50A	
DISCHARGING CURRENT	100A (I	100A (Max. continuous)		90A	
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	SPE		DELAY	RECOVERY	
CELL VOLTAGE PROTECTION	3.8		1s	3.45V	
MODULE VOLTAGE PROTECTION	60.0V		1s	55.2V	
OVER CHARGING CURRENT 1	>102A		20s	-	
OVER CHARGING CURRENT 2	≥120A <23°F or >158°F		3s	- <32°F or >140°F	
TEMPERATURE PROTECTION		<-5°C or >70°C		<32°F or >140°F <0°C or >60°C	
DISCHARGE					
CELL VOLTAGE PROTECTION	2.3V		1s	3.1V	
MODULE VOLTAGE PROTECTION	44.8V		1s	48.0V	
OVER CHARGING CURRENT 1	>102A		30s	60s	
OVER CHARGING CURRENT 2	>150A		3s <0.1mS	60s	
SHORT-CIRCUIT		>300A		-	
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 (>	>221°F (>105°C)		<176°F (<80°C)	
GENERAL SPECIFICATIONS					
PARAMETER		SPEC		CONDITION	
CELL BALANCE	120mA	Passive Bal	ance Cel	I Voltage Difference >40mV	
TEMPERATURE ACCURACY	3%	Cycle Measurement		Measuring Range: 40°F – 212°F (-4°C – 100°C)	
VOLTAGE ACCURACY	0.5%	Cycle Measur	ement	For Cells/Module	
CURRENT ACCURACY	3%	Cycle Measur	rement	Measurement Range: +/-200A	
SOC	5%	-		Integral Calculation	
POWER CONSUMPTION (SLEEP & OFF MODE)	<300uA	-		Storage/Transport/ Standby	
POWER CONSUMPTION (OPERATING)	<25mA	-		Charging/Discharging	
COMMUNICATION PORTS	I	RS485/CAN		Customizable	
MAXIMUM UNITS IN SERIES		1			
MAXIMUM UNITS IN PARALLEL		64			
E-STOP FUNCTION		Yes			
DIMENSION (H×W×D)		6.1in×19in×17.4in (15.5cm×48.2cm×44.2cm)			
WEIGHT		99.6 lbs. (45.2 kg)			
STANDARDS AND CERTIFICATIONS					
MODULE			ETL Listed	to UL Standard 9540A:2019	
CELL				UL:1973	

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