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.





EG4 ELECTRONICS

SPECIFICATION SHEET

		CAIIO		
MODULE OPERATING PARAMETERS				
PARAMETER		BMS	RECOMMENDED SETTIN	
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	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			IP2	
BMS PARAMETERS				
CHARGE	SPE	C DEL	AY RECOVERY	
CELL VOLTAGE PROTECTION	3.8	/ 1s	3.45V	
MODULE VOLTAGE PROTECTION	60.0	V 1s	55.2V	
OVER CHARGING CURRENT 1	>102	2A 20s	-	
OVER CHARGING CURRENT 2	≥120			
TEMPERATURE PROTECTION	<23°F or : <-5°C or	10	<32°F or >140°F <0°C or >60°C	
DISCHARGE	~-5 C 0 1	>10 C	<0 C 0i >00 C	
CELL VOLTAGE PROTECTION	2.3	/ 1s	3.1V	
MODULE VOLTAGE PROTECTION	44.8			
OVER CHARGING CURRENT 1	>102			
OVER CHARGING CURRENT 2	>150			
SHORT-CIRCUIT	>300			
	<-4°F or	>167°F	>14°F or <149°F	
TEMPERATURE PROTECTION	<-20°C or		>-10°C or <65°C	
PCB TEMP PROTECTION	>221°F (>	105°C) 1s	<176°F (<80°C)	
GENERAL SPECIFICATIONS				
PARAMETER		SPEC	CONDITION	
CELL BALANCE	120mA	Passive Balance	Cell Voltage Difference >40m	
TEMPERATURE ACCURACY	3%	Cycle Measurement	Measuring Range: 40°F – 212°F (-4°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)	<25mA	-	Charging/Discharging	
COMMUNICATION PORTS		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			J,	
MODULE		FTII	isted to UL Standard 9540A:201	
CELL		2121	UL:197	
			OL. 197	

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