

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.



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 (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	SPEC	DELAY	RECOVERY
CELL VOLTAGE PROTECTION	3.8V	1s	3.45V
MODULE VOLTAGE PROTECTION	60.0V	1s	55.2V
OVER CHARGING CURRENT 1	>102A	20s	-
OVER CHARGING CURRENT 2	≥120A	3s	-
TEMPERATURE PROTECTION	<23°F or >158°F <-5°C or >70°C	1s	<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	60s
SHORT-CIRCUIT	>300A	<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	120mA	Passive Balance	Cell Voltage Difference >40mV
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			
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.