

# EG4<sup>®</sup> LL-S 48V 100AH

## SERVER RACK BATTERY



The performance and longevity of our EG4<sup>®</sup> 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)	50A	
DISCHARGING CURRENT	100A (Max. continuous)	50A	
ENVIRONMENTAL PARAMETERS			
CHARGING RANGE	32°F – 122°F (0°C – 50°C)		
DISCHARGING RANGE	-4°F – 131°F (-20°C – 55°C)		
STORAGE RANGE	32°F – 113°F (0°C – 45°C)		
OPERATING ALTITUDE	<16404 ft. (<5000 m)		
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	10s	-
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 DISCHARGING CURRENT 1	>102A	10s	60s
OVER DISCHARGING 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	>230°F (>110°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 (-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)	<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×17.4in×19.3in (15.5cm×44.2cm×49cm)		
WEIGHT	99.6 lbs. (45.2 kg)		
STANDARDS AND CERTIFICATIONS			
UL1973, UL9540A			

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

## CHANGELOG

Version 1.2.5

- Added model #.