

# EG4<sup>®</sup> 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<br><-5°C or >70°C        | 1s                  | <32°F or >140°F<br><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<br><-20°C or >75°C       | 1s                  | >14°F or <149°F<br>>-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:<br>40°F – 212°F<br>(-4°C – 100°C) |
| VOLTAGE ACCURACY                     | 0.5%                                     | Cycle Measurement   | For Cells/Module                                   |
| CURRENT ACCURACY                     | 3%                                       | Cycle Measurement   | Measurement Range:<br>+/-200A                      |
| SOC                                  | 5%                                       | -                   | Integral Calculation                               |
| POWER CONSUMPTION (SLEEP & OFF MODE) | <300uA                                   | -                   | Storage/Transport/<br>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.