

# EG4® LL-S 48V 100AH

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## 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)                   |                   | 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<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 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<br><-20°C or >75°C       | 1s                | >14°F or <149°F<br>>-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:<br>-40°F – 212°F<br>(-40°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×17.4in×19.3in (15.5cm×44.2cm×49cm) |                   |                                                      |
| WEIGHT                               | 99.6 lbs. (45.2 kg)                      |                   |                                                      |
| STANDARDS AND CERTIFICATIONS         |                                          |                   |                                                      |

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