

## 24V 200AH EGy\*LL

## WWW.EG4BATTERY.COM

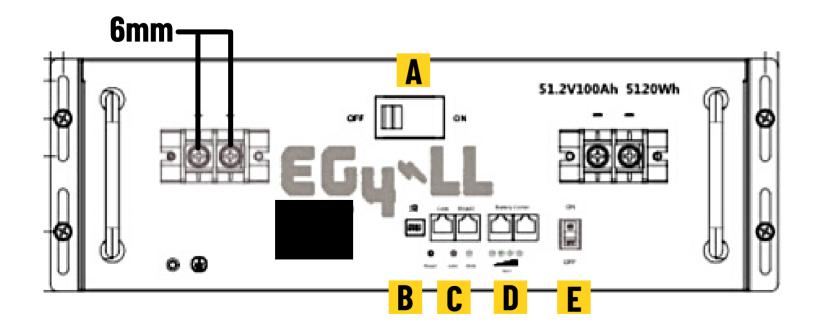
(972) 777-4676 | SERVICE@EG4BATTERY.COM



♥ 7000 Deep-Cycle Cells

- Ten Year Warranty
- PC Software Monitoring
- Parallel up to 16 packs
  Rack Mount Design
- Welded Prismatic Cell Connections
- ✓ 100A Internal BMS
- 5.12kWh Storage Capacity
- Built-In BMS Growatt & EG4 Inverter communication

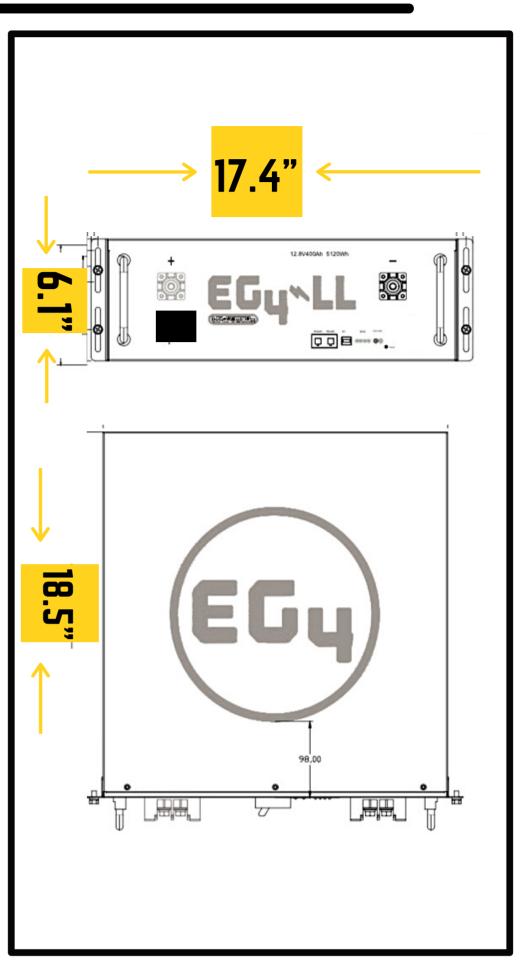




- **A**. 125A BREAKER **B**. ADDRESS SWITCHES **C**. CAN/RS485 COMMUNICATION PORTS
  - **D**. BATTERY COMMUNICATION PORTS
- **E**. BMS POWER SWITCH

## **BATTERY SPECIFICATIONS**

|                         | ITEM                                  | SPEC  | DETAIL   |
|-------------------------|---------------------------------------|---|--|
| NDMINAL                 | VOLTAGE                               | 25.6V   | 77 <sup>.</sup> F, <b>.</b> 2 <sup>.</sup> C         |
| MON                     | CAPACITY                              | 200AH   | 5.12kWh  |
|                         | CHARGING VOLTAGE REC.                 | 29V   |  |
| G<br>RS                 | DISCHARGE VOLTAGE REC.                | 21.6V   |  |
| OPERATING<br>Parameters | MAXIMUM CHARGE CURRENT                | 100A constant   |  |
| RA                      | MAXIMUM DISCHARGE CURRENT             | 100A constant   | 30A : RECOMMENDED                                    |
| PE                      | REC. BULK VOLTAGE                     | 28.5V   |  |
| PA                      | REC. FLOAT VOLTAGE                    | 28.25V  |  |
|                         | REC. ABSORB VOLTAGE                   | 28.25V  |  |
| W                       | EIGHT (LBS)                           | 101.4 LBS   |  |
| DIMEN                   | SIONS (W   D   H)                     | 17.4X18.5X6.1in   |  |
|                         | CHARGE RANGE                          | 32°F - 113°F  |  |
| TEMP.                   | DISCHARGE RANGE                       | -4°F - 131°F  |  |
|                         | STORAGE RANGE                         | - 4°F - 113°F   |  |
| BMS                     | BUILT IN BATTERY<br>MANAGEMENT SYSTEM | VOLTAGE, CURRENT, TEMPERATURE<br>MANAGEMENT. CELL BALACE<br>MANAGEMENT. COMMUNICATION WITH<br>GROWATT & EG4 INVERTERS | <b>RS485</b><br>can be customized<br>to match device |
| SERVICE                 | DESIGN LIFE                           | 10-20 YEARS   |  |
| LIFE                    | CYCLE LIFE @80% DOD                   | >7000 TIMES   |  |



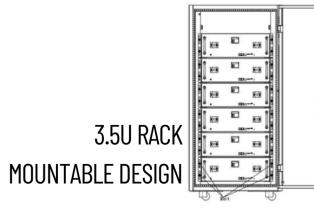
## **BATTERY PARAMETERS**

|     | ITEM                    | PARAM | IETERS   | DETAIL         |
|-----|-------------------------|-------|----------|----------------|
| 1.1 | CELL VOLTAGE PROTECTION | 3.9V  | DELAY 1S | RECOVER @ 3.9V |

| Q SearchDevice | INS Boaite         | ring 185 Furmeter | MS Control   | MS Dutaleg @ Mistori | cal Record 🖉 Communicat | tion Software Parameter |
|----------------|--------------------|-------------------|--------------|----------------------|-------------------------|-------------------------|
|                | -Hedal Infonation- |                   | Beniter Ste  | stus                 | Alare Status            | Trip Status             |
|                | Rodal              |                   | COM          | •                    | O Pack OV               | O Fack OV               |
|                | Versien            |                   | PACE PACE    | Ente 9600 *          | O C+11 0V               | O Cell 07               |
|                | SH                 |                   |              | 1 Startflonitering   | O Pack W                | O Pack W                |
|                | -Battery Infonatio | 13                |              |                      | Cell W                  | O Call W                |
|                | Status             | Neut film         | 500          | % SOH                | s O Charge 00           | Charge 00               |
|                | Voltage            | V Current         | A Capaity    | AN Remain C          | AN Discharge 0          | C Discharge CC          |
|                |                    |                   |              |                      | O Temp Anomal           | y C Temp Animaly        |
|                | Cell War           | V Call Win        | V Call Diff  | V But C-C            | A O MOS OT              | O NOS OT                |
|                | Teap Bax           | C Temp Min        | "C Temp Diff | C Call Num           | O Charge 07             | Charge OT               |
|                | -Valtage(V)        |                   |              |                      | O Discharge 0           | T Discharge UT          |
|                | Ce1101             | C+1102            | Ce1103       | C-1104               | O Charge 17             | Charge W                |
|                | Ce1105             | C-1106            | C+1107       | C-1100               | O Discharge I           | π Discharge UT          |
|                | C+1109             | C+1110            | C+1111       | C+1112               | O Low Capacit           | T D Low Capacity        |
|                | Cell13             | Callia            | Call15       | Cell16               | O Rost Steps            | d Discharge ST          |
|                |                    |                   |              |                      | Breer Status            | Balance Status          |
|                | -Temperature (C)-  |                   |              |                      | O Valtage Err           |                         |
|                | Tenp PCB           | Temp Ambien       |              |                      | O Tenperature E         | rror 5 6 7 8            |
|                | Tenp01             | Temp02            | Texp03       | Temp04               | O Current Err           |                         |
|                |                    |                   |              |                      | Cell Unbala             | ute 13 14 15 16         |

| MODULE VOLTAGE PROTECTION       30V       DELAY 1S       RECOVER @ 27.6V         OVER CHARGE CURRENT 1       >100A       DELAY 20S         OVER CHARGE CURRENT 2       ≥120A       DELAY 2S         TEMPERATURE PROTECTION       <32°F or >158°F       DELAY 1S       RECOVER @ >14 F or <1         CELL VOLTAGE PROTECTION       2.3V       DELAY 1S       RECOVER @ 3.1V         MODULE VOLTAGE PROTECTION       2.3V       DELAY 1S       RECOVER @ 3.1V         MODULE VOLTAGE PROTECTION       2.16V       DELAY 1S       RECOVER @ 24V         OVER CHARGE CURRENT 1       >100A       DELAY 1S       RECOVER @ 24V         OVER CHARGE CURRENT 1       >100A       DELAY 1S       RECOVER @ 24V         OVER CHARGE CURRENT 1       >100A       DELAY 1S       RECOVER @ 24V         OVER CHARGE CURRENT 2       >150A       DELAY 1S       RECOVER IN 60S         OVER CHARGE CURRENT 2       >150A       DELAY 1S       RECOVER IN 60S         TEMPERATURE PROTECTION       <32°F or >158°F       DELAY 1S       RECOVER @ <167 F         CELL BALANCE       100mA       PASSIVE BALANCE       CELL V DIFFERENCE >mV         TEMPERATURE ACCURACY       3%       CYCLE MEASURE       -40°F - 212 F RANGE         VOLTAGE ACCURACY       0.5%       CYCLE M |    |                           | 0.01                                      |                 |                           |
|---|----|---------------------------|---|-----------------|---------------------------|
| CELL VOLTAGE PROTECTION2.3VDELAY 1SRECOVER @ 3.1VMODULE VOLTAGE PROTECTION21.6VDELAY 1SRECOVER @ 24VOVER CHARGE CURRENT 1>100ADELAY 1OSRECOVER IN 60SOVER CHARGE CURRENT 2>150ADELAY 3SRECOVER IN 60SOVER CHARGE CURRENT 2>150ADELAY 1SRECOVER IN 60STEMPERATURE PROTECTION<32'F or >158'FDELAY 1SSHORT CIRCUT>250ADELAY 1SRECOVER @ <167 F   |    | MODULE VOLTAGE PROTECTION | 30V                                       | DELAY 1S        | RECOVER @ 27.6V           |
| CELL VOLTAGE PROTECTION2.3VDELAY ISRECOVER @ 3.1VMODULE VOLTAGE PROTECTION21.6VDELAY ISRECOVER @ 24VOVER CHARGE CURRENT 1>100ADELAY ISRECOVER IN 60SOVER CHARGE CURRENT 2>150ADELAY 3SRECOVER IN 60SOVER CHARGE CURRENT 2>150ADELAY 1SRECOVER IN 60SOVER CHARGE CURRENT 2>150ADELAY 3SRECOVER IN 60SOVER CHARGE CURRENT 2>250ADELAY 1SSFEMPERATURE PROTECTION<32'F or >158'FDELAY 1SSHORT CIRCUT>203 FDELAY 1SSPCB TEMP PROTECTION>203 FDELAY 1SRECOVER @ <167 FCELL BALANCE100mAPASSIVE BALANCEcell v Difference >mvTEMPERATURE ACCURACY3%CYCLE MEASURE-40 F - 212 F RANGEVOLTAGE ACCURACY0.5%CYCLE MEASUREFOR CELLS AND MODULE  | A  | OVER CHARGE CURRENT 1     | >100A                                     | DELAY 20S       |                           |
| CELL VOLTAGE PROTECTION2.3VDELAY 1SRECOVER @ 3.1VMODULE VOLTAGE PROTECTION21.6VDELAY 1SRECOVER @ 24VOVER CHARGE CURRENT 1>100ADELAY 1OSRECOVER IN 60SOVER CHARGE CURRENT 2>150ADELAY 3SRECOVER IN 60SOVER CHARGE CURRENT 2>150ADELAY 1SRECOVER IN 60SSHORT CIRCUT>250ADELAY 1SRECOVER IN 60SPCB TEMP PROTECTION<32°F or >158°FDELAY 1SPCB TEMP PROTECTION>203 FDELAY 1SRECOVER @ <167 F   | H  | OVER CHARGE CURRENT 2     | ≥120A                                     | DELAY 2S        |                           |
| MODULE VOLTAGE PROTECTION21.6VDELAY 1SRECOVER @ 24VOVER CHARGE CURRENT 1>100ADELAY 10SRECOVER IN 60SOVER CHARGE CURRENT 2>150ADELAY 3SRECOVER IN 60SOVER CHARGE CURRENT 2>150ADELAY 3SRECOVER IN 60STEMPERATURE PROTECTION<32'F or >158'FDELAY 1SSHORT CIRCUT>250ADELAY 1SPCB TEMP PROTECTION>203 FDELAY 1SPCB TEMP PROTECTION>203 FDELAY 1SRECOVER @ <167 F  | C  | TEMPERATURE PROTECTION    | <32 <sup>.</sup> F or >158 <sup>.</sup> F | DELAY 1S        | RECOVER @ >14 F or <149 F |
| MODULE VOLTAGE PROTECTIONZ1.6VDELAY ISRECOVER @ 24VOVER CHARGE CURRENT 1>100ADELAY 10SRECOVER IN 60SOVER CHARGE CURRENT 2>150ADELAY 3SRECOVER IN 60SOVER CHARGE CURRENT 2>150ADELAY 3SRECOVER IN 60STEMPERATURE PROTECTION<32°F or >158°FDELAY 1SSHORT CIRCUT>203 FDELAY 1SPCB TEMP PROTECTIONPCB TEMP PROTECTION>203 FDELAY 1SRECOVER @ <167 FCELL BALANCE100mAPASSIVE BALANCECELL V DIFFERENCE >mVTEMPERATURE ACCURACY3%CYCLE MEASURE-40 F - 212 F RANGEVOLTAGE ACCURACY0.5%CYCLE MEASUREFOR CELLS AND MODULE   |    | CELL VOLTAGE PROTECTION   | 2.3V                                      | DELAY 1S        | RECOVER @ 3.1V            |
| TEMPERATURE PROTECTION       <32°F or >158°F       DELAY IS         SHORT CIRCUT       >250A       DELAY IS         PCB TEMP PROTECTION       >203 F       DELAY IS         PCB TEMP PROTECTION       >203 F       DELAY IS         RECOVER @ <167 F         CELL BALANCE       100mA       PASSIVE BALANCE       CELL V DIFFERENCE >mV         TEMPERATURE ACCURACY       3%       CYCLE MEASURE       -40 F - 212 F RANGE         VOLTAGE ACCURACY       0.5%       CYCLE MEASURE       FOR CELLS AND MODULE  | RG | MODULE VOLTAGE PROTECTION | 21.6V                                     | DELAY 1S        | RECOVER @ 24V             |
| TEMPERATURE PROTECTION       <32°F or >158°F       DELAY IS         SHORT CIRCUT       >250A       DELAY IS         PCB TEMP PROTECTION       >203 F       DELAY IS         PCB TEMP PROTECTION       >203 F       DELAY IS         RECOVER @ <167 F         CELL BALANCE       100mA       PASSIVE BALANCE       CELL V DIFFERENCE >mV         TEMPERATURE ACCURACY       3%       CYCLE MEASURE       -40 F - 212 F RANGE         VOLTAGE ACCURACY       0.5%       CYCLE MEASURE       FOR CELLS AND MODULE  | A  | OVER CHARGE CURRENT 1     | >100A                                     | DELAY 10S       | RECOVER IN 60S            |
| TEMPERATURE PROTECTION       <32°F or >158°F       DELAY IS         SHORT CIRCUT       >250A       DELAY IS         PCB TEMP PROTECTION       >203 F       DELAY IS         PCB TEMP PROTECTION       >203 F       DELAY IS         RECOVER @ <167 F         CELL BALANCE       100mA       PASSIVE BALANCE       CELL V DIFFERENCE >mV         TEMPERATURE ACCURACY       3%       CYCLE MEASURE       -40 F - 212 F RANGE         VOLTAGE ACCURACY       0.5%       CYCLE MEASURE       FOR CELLS AND MODULE  | E  | OVER CHARGE CURRENT 2     | >150A                                     | DELAY 3S        | RECOVER IN 60S            |
| PCB TEMP PROTECTION       >203 F       DELAY 1S       RECOVER @ <167 F         CELL BALANCE       100mA       PASSIVE BALANCE       CELL V DIFFERENCE >mV         TEMPERATURE ACCURACY       3%       CYCLE MEASURE       -40 F - 212 F RANGE         VOLTAGE ACCURACY       0.5%       CYCLE MEASURE       FOR CELLS AND MODULE  |    | TEMPERATURE PROTECTION    | <32 <sup>•</sup> F or >158 <sup>•</sup> F | DELAY 1S        |                           |
| CELL BALANCE       100mA       PASSIVE BALANCE       CELL V DIFFERENCE >mV         TEMPERATURE ACCURACY       3%       CYCLE MEASURE       -40 F - 212 F RANGE         VOLTAGE ACCURACY       0.5%       CYCLE MEASURE       FOR CELLS AND MODULE   |    | SHORT CIRCUT              | >250A                                     | DELAY 1S        |                           |
| TEMPERATURE ACCURACY         3%         CYCLE MEASURE         -40 F - 212 F RANGE           VOLTAGE ACCURACY         0.5%         CYCLE MEASURE         FOR CELLS AND MODULE  |    | PCB TEMP PROTECTION       | >203 F                                    | DELAY 1S        | RECOVER @ <167 F          |
| VOLTAGE ACCURACY 0.5% CYCLE MEASURE FOR CELLS AND MODULE  |    | CELL BALANCE              | 100mA                                     | PASSIVE BALANCE | CELL V DIFFERENCE >mV     |
| VULTAGE ACCURACY U.3 /o CYCLE MEASURE FOR CELLS AND HODOLE  |    | TEMPERATURE ACCURACY      | 3%  | CYCLE MEASURE   | -40 F - 212 F RANGE       |
|   |    | VOLTAGE ACCURACY          | 0.5%                                      | CYCLE MEASURE   | FOR CELLS AND MODULE      |
|   |    | CURRENT ACCURACY          | 3%  | CYCLE MEASURE   | -200 ~ + 200mV RANGE      |
|   |    |                           | <300uA                                    | DELAY 1S        | STORAGE & TRANSPORTATION  |
|   |    |                           | <300uA                                    |                 | PROTECTION AND STANDBY    |
|   | B  |                           | <14mA                                     |                 | CHARGING & DISCHARGING    |
|   |    | STATE OF CHARGE           | 5%  |                 | INTERNAL CALCULATIONS     |
| STATE OF CHARGE 5% INTERNAL CALCULATIONS  |    |                           | <b>3</b> / 3                              |                 | INTENNAL CALCOLATIONS     |

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