

## 24V 200AH EGy\*LL

## WWW.EG4BATTERY.COM

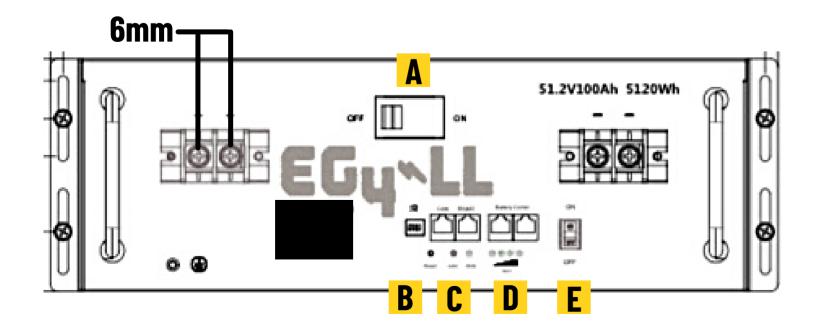
(972) 777-4676 | SERVICE@EG4BATTERY.COM



♥ 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

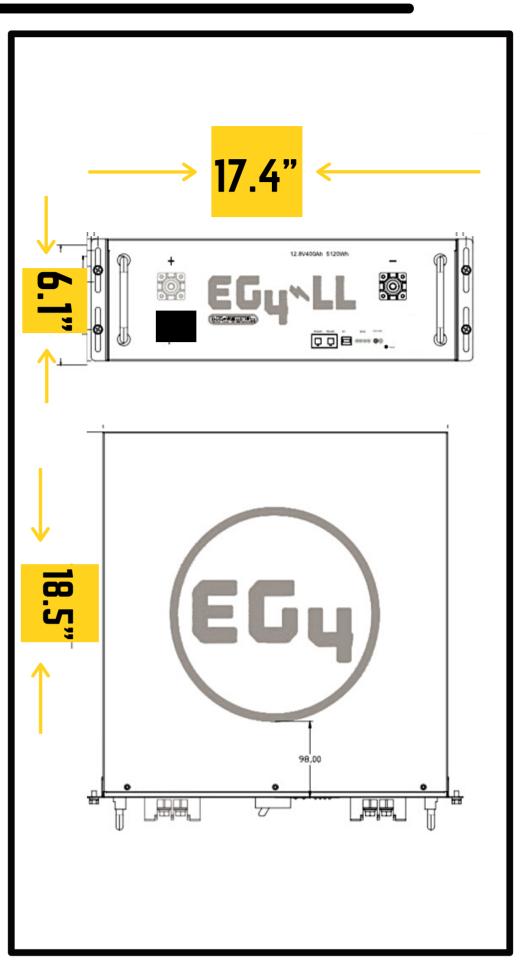




- **A**. 125A BREAKER **B**. ADDRESS SWITCHES **C**. CAN/RS485 COMMUNICATION PORTS
  - **D**. BATTERY COMMUNICATION PORTS
- **E**. BMS POWER SWITCH

## **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 RS	DISCHARGE VOLTAGE REC.	21.6V	
OPERATING 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 MANAGEMENT SYSTEM	VOLTAGE, CURRENT, TEMPERATURE MANAGEMENT. CELL BALACE MANAGEMENT. COMMUNICATION WITH GROWATT & EG4 INVERTERS	<b>RS485</b> can be customized to match device
SERVICE	DESIGN LIFE	10-20 YEARS	
LIFE	CYCLE LIFE @80% DOD	>7000 TIMES	



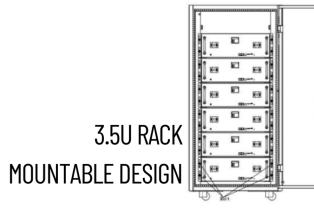
## **BATTERY PARAMETERS**

	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	
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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
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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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