



# 48V 100AH

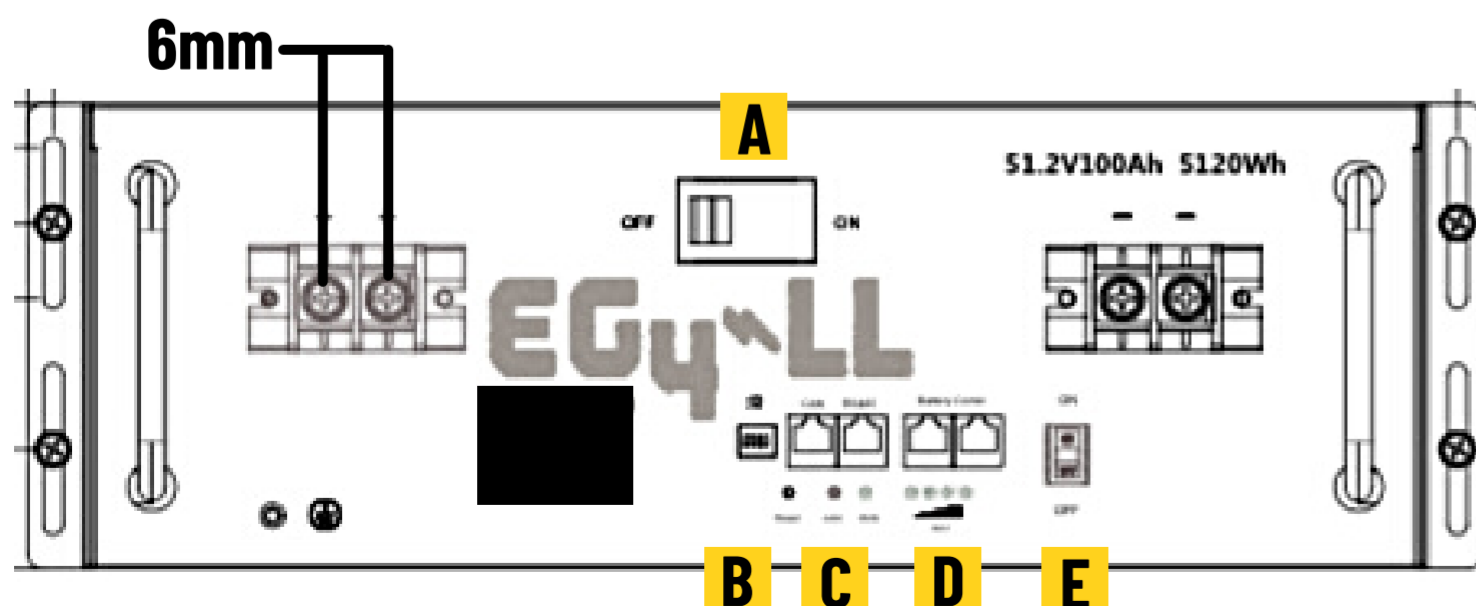
## EG4<sup>LL</sup>

[WWW.EG4BATTERY.COM](http://WWW.EG4BATTERY.COM)

(972) 777-4676 | [SERVICE@EG4BATTERY.COM](mailto:SERVICE@EG4BATTERY.COM)



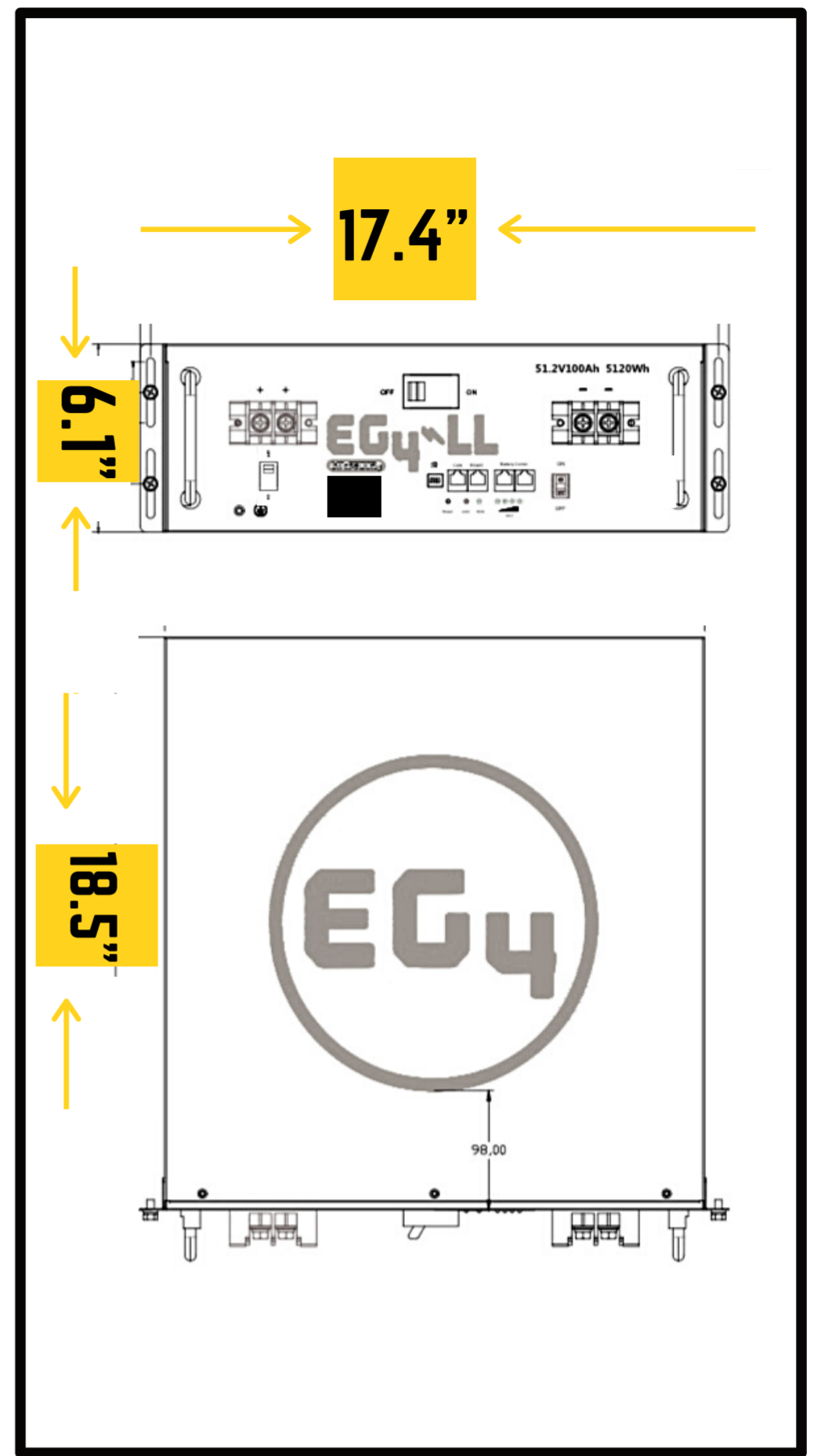
- ✔ 7000 Deep-Cycle Cells
- ✔ Ten Year Warranty
- ✔ PC Software Monitoring
- ✔ Parallel up to 16 packs
- ✔ Rack Mount Design
- ✔ Welded Prismatic Cell Connections
- ✔ 100A Internal BMS
- ✔ 5.12kWh Storage Capacity
- ✔ Built-In BMS Growatt & EG4 Inverter communication



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

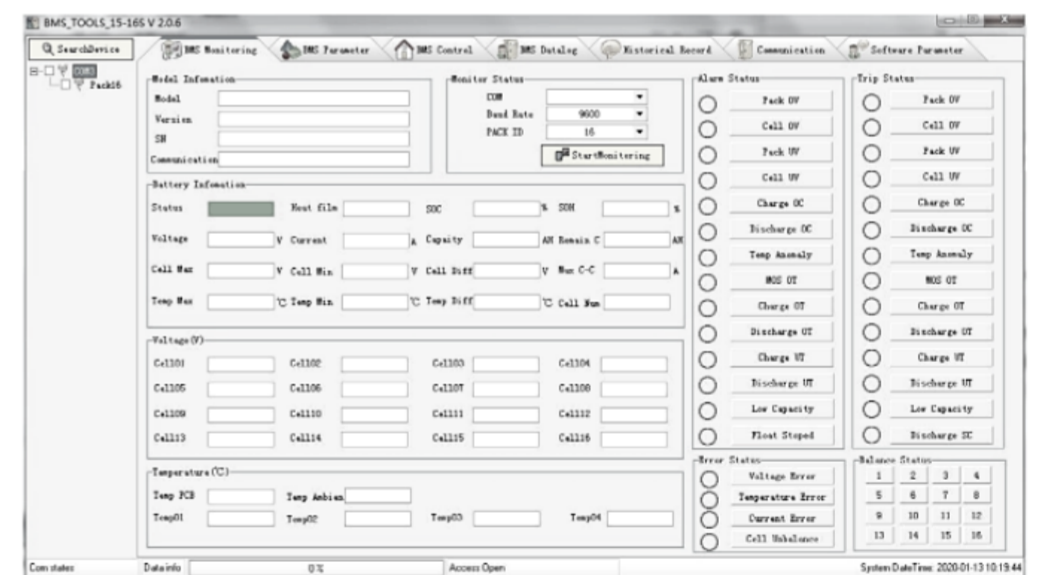
# BATTERY SPECIFICATIONS

	ITEM	SPEC	DETAIL
<b>NOMINAL</b>	<b>VOLTAGE</b>	51.2V	77 F, .2°C
	<b>CAPACITY</b>	100AH	5.12kWh
<b>OPERATING PARAMETERS</b>	CHARGING VOLTAGE REC.	58V	
	DISCHARGE VOLTAGE REC.	43.2V	
	MAXIMUM CHARGE CURRENT	100A constant	
	MAXIMUM DISCHARGE CURRENT	100A constant	30A : RECOMMENDED
	REC. BULK VOLTAGE	57V	
	REC. FLOAT VOLTAGE	56.5V	
	REC. ABSORB VOLTAGE	56.5V	
	<b>WEIGHT (LBS)</b>	101.4 LBS	
	<b>DIMENSIONS (W   D   H)</b>	17.4X18.5X6.1in	
<b>TEMP.</b>	CHARGE RANGE	32°F - 113°F	
	DISCHARGE RANGE	-4°F - 131°F	
	STORAGE RANGE	-4°F - 113°F	
<b>BMS</b>	BUILT IN BATTERY MANAGEMENT SYSTEM	VOLTAGE, CURRENT, TEMPERATURE MANAGEMENT. CELL BALANCE MANAGEMENT. COMMUNICATION WITH GROWATT & EG4 INVERTERS	<b>RS485</b> can be customized to match device
	<b>SERVICE LIFE</b>	DESIGN LIFE CYCLE LIFE @80% DOD	10-20 YEARS >7000 TIMES
<b>LCD</b>	LCD SCREEN SIZE (WxH)	2.5" x 1.5"	

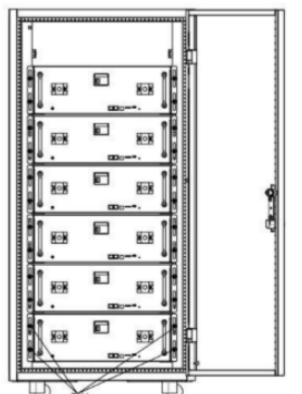


## BATTERY PARAMETERS

	ITEM	PARAMETERS	DETAIL	
<b>CHARGE</b>	CELL VOLTAGE PROTECTION	3.9V	DELAY 1S RECOVER @ 3.45V	
	MODULE VOLTAGE PROTECTION	60V	DELAY 1S RECOVER @ 55.2V	
	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 <149 F	
<b>DISCHARGE</b>	CELL VOLTAGE PROTECTION	2V	DELAY 1S RECOVER @ 3.1V	
	MODULE VOLTAGE PROTECTION	59.6V	DELAY 1S RECOVER @ 48V	
	OVER CHARGE CURRENT 1	>100A	DELAY 10S RECOVER IN 60S	
	OVER CHARGE CURRENT 2	>150A	DELAY 3S RECOVER IN 60S	
	TEMPERATURE PROTECTION	<32°F or >158°F	DELAY 1S	
	SHORT CIRCUIT	>250A	DELAY 1S	
<b>BMS SPECS</b>	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	
	CURRENT ACCURACY	3%	CYCLE MEASURE -200 ~ + 200mV RANGE	
	POWER CONSUMPTION WITH DIFFERENT CONDITIONS	<300uA	DELAY 1S	STORAGE & TRANSPORTATION
		<300uA		PROTECTION AND STANDBY
		<14mA		CHARGING & DISCHARGING
STATE OF CHARGE	5%		INTERNAL CALCULATIONS	
COMMUNICATION PORTS	rs485	can be customized to match device		



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3.5U RACK MOUNTABLE DESIGN

**WARRANTY:** EG4 offers a 10-year prorated warranty from the date of purchase. This warranty must be registered within the first year of purchase. If you choose not to register your warranty, your warranty may be invalidated. This limited warranty is to the original purchaser of the product and not transferable to any other person or entity.

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