



FEATURES

- * EM series battery cells
- * Safest technology
- * Ultra long cycle life
- * Extreme temperature
- * Easy to install
- * Rarely maintenance



PART NUMBER	GTEM-48V5500-E
Energy storage	5.5kWh
Capacity	105Ah
Nominal Voltage	51.8V/DC
Maximum Charge Voltage	58V/DC
Discharge Cut-off Voltage	42V/DC
Internal Configuration	14S5P/EM21
ESR/AC @1KHz 50% SOC	<10mΩ
Max. Continuous Charge Current	100A
Max. Continuous Discharge Current	100A
Cells Self-discharge Rate	2% per month
Round Trip Efficiency*1	97.8%
Projected cycle life(25°C)	20000 times
Projected life(25°C)	15 years
Recommended Depth of Discharge	≤90%
Maximum Depth of Discharge	100%
Cooling Method	Natural
Shell Material	Metal & ABS plastic
Parallel Connection	Up to 16 sets
Compatible Protocol	CAN,RS485
Monitoring Data	System voltage,current,temperature,SOC,SOH,cycle,cell's voltage

COMPLIANCE INFORMATION		ENVIRONMENTAL SPECIFICATIONS	
IEC*2	IEC62619	Ingress Rating	Indoor IP20
Italy	CEIO-21:2022	Operating Humidity	0~90% RH Non-condensing
CE	EN 62133:2013,	Charge Temperature	0°C~+55°C
	EN 55032:2015+AC:2016,	Discharge Temperature	-20°C~+60°C
	EN 55035:2017,	Storage Conditions	SOC>30%,-20°C~+40°C, 25% ~ 95%RH, One full charge needed per two months
Transport	UN38.3,MSDS	Transport Conditions	50% SOC,-20°C~+40°C
Environmental	RoHS	Maximum Elevation	3000m (9843ft)

Remark:*1 (1)At room temperature 25°C, charge-discharge at 100A.(2)Limited charge at 100A for resident energy storage, (3)At the beginning of life.

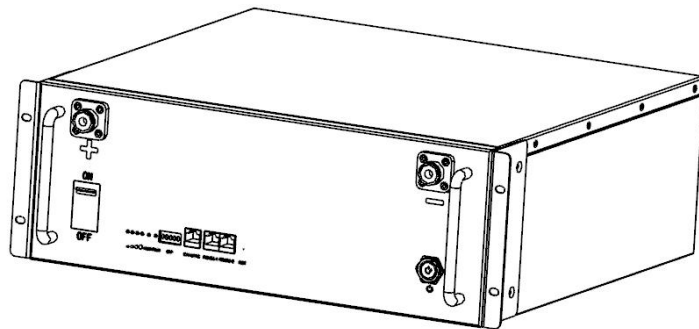
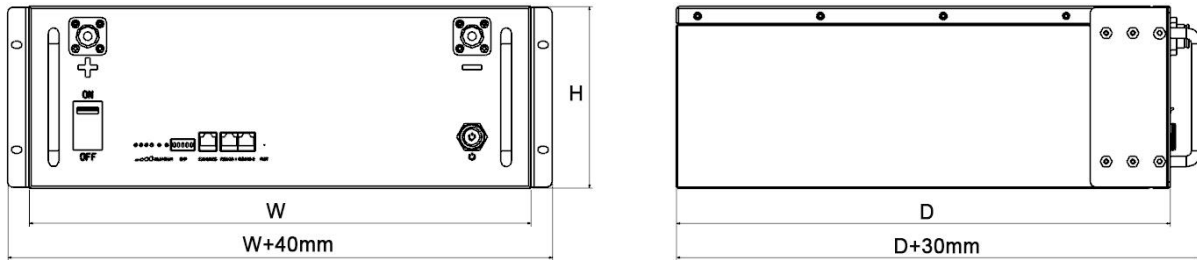
*2on testing,certificate will come soon.

GRAPHENE SUPERCAP BATTERY ENERGY STORAGE SYSTEM

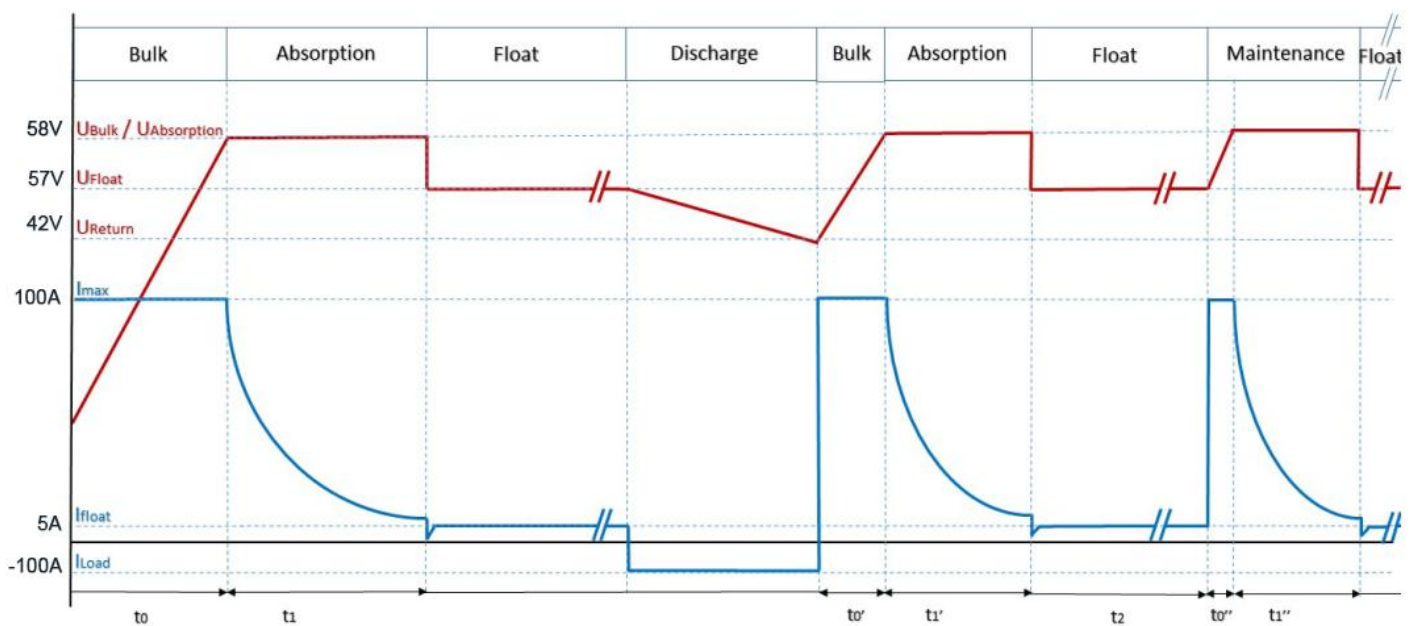
MECHANICAL SPECIFICATIONS

Part Number	GTEM-48V5200-E
Weight	38Kg
Dimensions(WxDxH)	470x462x170(mm)
Mount Options	On rack cabinet

Dimensions and weight differ slightly for each batch. Contact Green Tech for additional information.



CHARGING-DISCHARGING CURVE



Note: If the charger needs to set the floating charge voltage, it is recommended to set the U_{Float} value to 57V.

GRAPHENE SUPERCAP BATTERY ENERGY STORAGE SYSTEM

Bluetooth Display Function

This Bluetooth APP can be operated by both Android and IOS. It establish a Bluetooth connection between your smart phone and the battery, usages includes below: managing the battery pack, gathering the data and displaying them, conducting modifications on settings.

Bluetooth APP can achieve below functions:

- ✧ Display the basic data of battery pack
- ✧ Modifying the communication between BMS and inverter
- ✧ Setting Alert Parameters and Switch on/off
- ✧ Support Single and Parallel operation
- ✧ Shift between Chinese and English

