

## Product Features

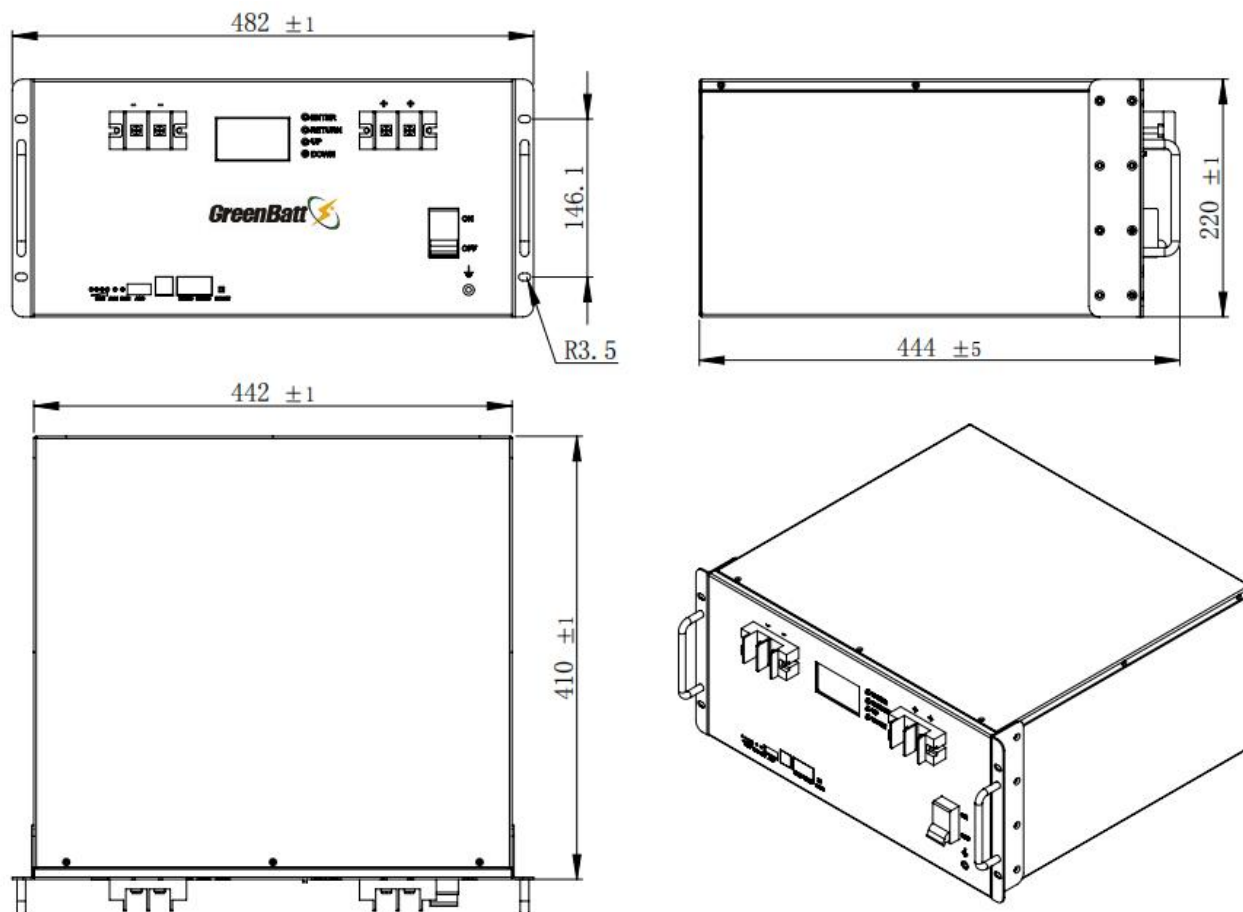
- Applied to home energy storage, communication base station, back-up power.
- CAN interface for communication with inverter.
- Double RS485 interface, support parallel communication.
- Automatic pre-charge circuit.
- Intelligent electricity calculation, data storage, protection of over-current, over-charge, over-discharge over-temp, short circuit and insufficient electricity.
- Compatible with battery protocols (eg. PYLON) and leading inverters (eg. Goodwe、Sunnyink、Growatt).
- The 8-bit dial switch can distinguish the master and slave addresses. The master monitors up to 15 slave batteries.
- Excellent current limiting design, support battery parallel for higher capacity requirements.
- Long cycle life, wide working temp range, can replace lead-acid battery.
- 100A continuous discharge current.
- LCD display (Options,If necessary, remarks shall be made when placing an order)

## Technical Specifications

GENERAL INFORMATION	
Battery Type	LiFePO4
Usable Capacity	4800 Wh @C2, 25°C
Nominal Voltage	48 VDC
Operating Voltage Range	39VDC – 54 V DC
Operating Temperature Range	-20°C – 60°C
Cycle Life @ 100% DoD	> 3500 cycles (4800Wh @C2, 25°C)
Cycle Life @ 80% DoD	> 5000 cycles (3840Wh @C2, 25°C)
Cycle Life @ 70% DoD	> 7000 cycles (3360Wh @C2, 25°C)
Dimensions (mm)	482mm x 410mm x 220mm (5U) (W x D x H)
Weight (kg)	48 kg
Charge Current (max.)	50A continuous( 25°C)
Discharge Current (max.)	100A continuous( 25°C)
Over-charge protection	3.65V
Over-charge release	3.40V
Under-discharge protection	2.60V
Under-discharge release	2.70V
Over-current protection	110A
Over-current delay	10 S
Charging over-temperature protection	55°C
Charging under-temperature protection	0°C

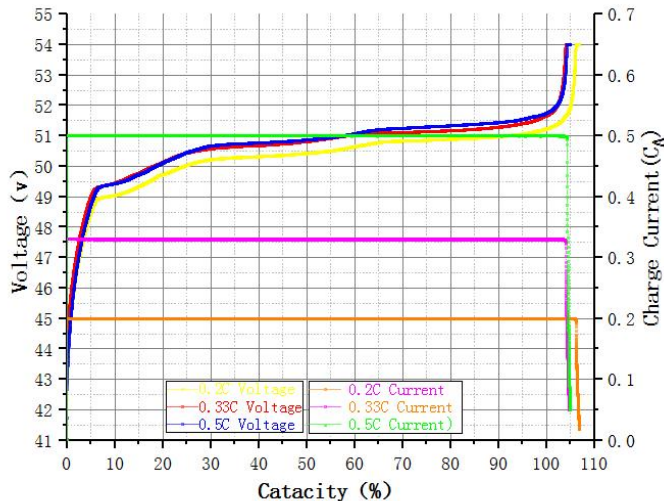
Discharge over-temperature protection	60℃
Discharge under-temperature protection	-20℃
Balance current	≤200mA
Balance Condition	≥3.35V, voltage difference 50mV
Self-discharge Rate	< 3% per month
IP-Protection	IP51
Safety certification	UN38.3
Communication port with inverter	CAN or RS485

Dimension(unit:mm):482mm x 410mm x 220mm (5U) (W x D x H)

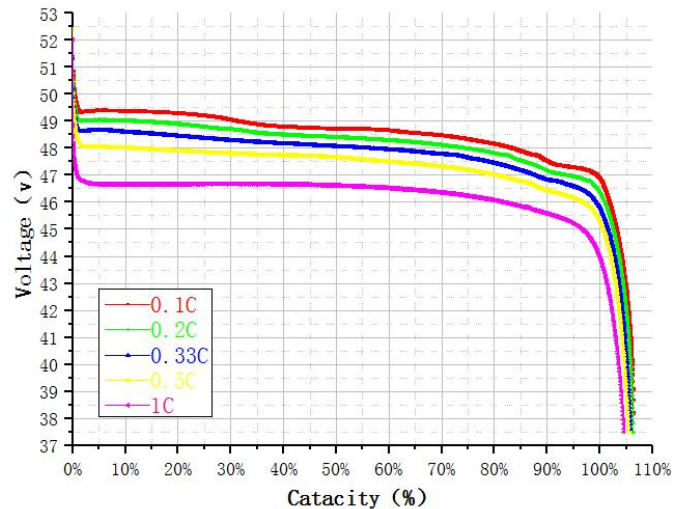


## Performance Curve

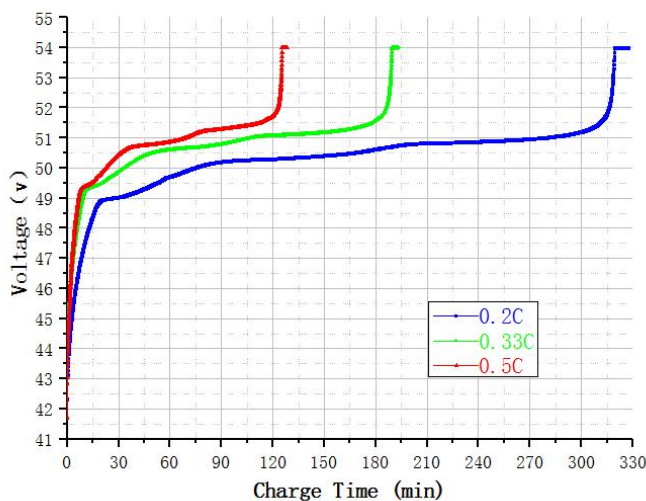
Charge Characteristics@25°C



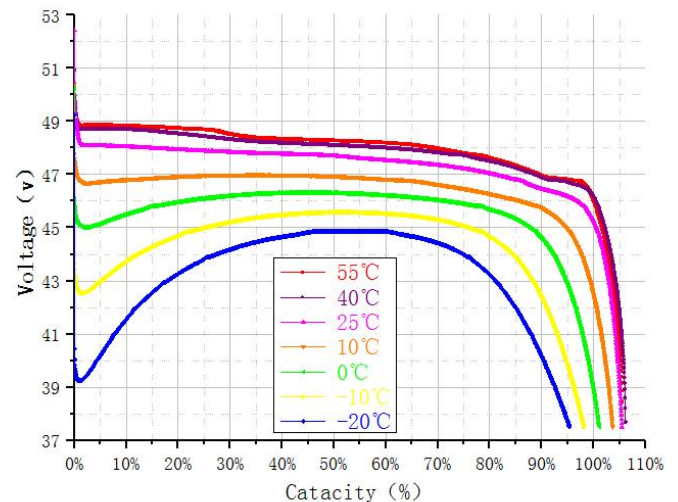
Different Rate Discharge Curve@25°C



Different Rate Charge Curve@25°C



Different Temp. Discharge Curve@0.5C



## Points for Attention

- Do not short-circuit battery.
- It is forbidden to put the LCD screen in the sun, which is easy to damage the parts.
- Long-term storage, check the power in time at least every 3 months. When the battery power is less than 10%, please charge it to more than 30% (soc ≥ 30%) in time.
- It is forbidden to directly immerse the battery in water, and it is forbidden to wash the outside.
- 15~45°C charging temperature is suggested, which is beneficial to better play the battery performance.