

**VTCBATT TODAY, VICTORY TOMORROW!**




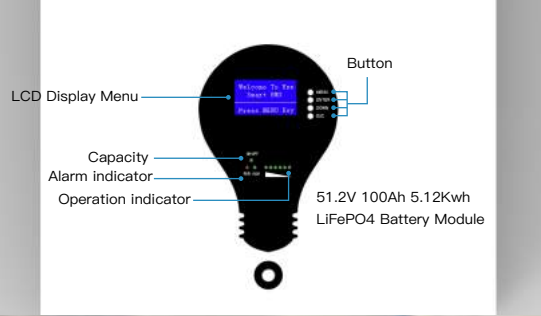
# ESS Lithium Ion Battery

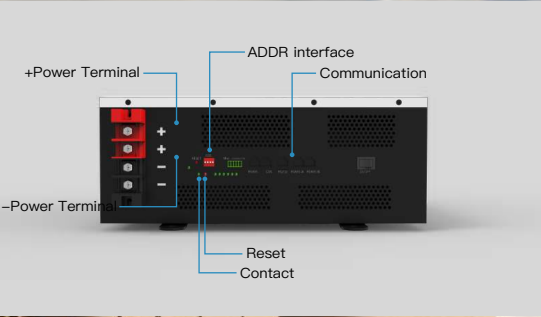
## Power Your Home With Renewable Energy

[www.vtc-energy.com](http://www.vtc-energy.com)  
[sales@vtc-energy.com](mailto:sales@vtc-energy.com)









- ▶ Waterproof&Dustproof
- ▶ Ingress Protection Rate IP67
- ▶ Life design:10 years
- ▶ Warranty: 3 years
- ▶ Cycle life:6000+ times at 80% DOD
- ▶ Wall mounted&Easy installation
- ▶ Support Parallel Connection  
Max 15pcs,up to 76.8Kwh
- ▶ Continuous Charging  
Discharging current:100A
- ▶ Compatible with multiple inverters
- ▶ RS485/CAN/232 communication
- ▶ Smart BMS and button for easy operation
- ▶ Non-Toxic & Non-Hazardous Cobalt-Free LFP Chemistry

## ADVANTAGES



**10,000+**  
Global Residential ESS



**10+**  
Years Delivery experience



**TOP 10**  
Global residential ESS Supplier



**1.5GWH**  
Delivered capacity



**20+Countries**  
Global Deliveries



**Flexible battery solutions**  
100Ah up to 115.2KWH

## SCOPE

This specification is applied to the VTC standard wall mount module battery home battery series only.

## PRODUCT & MODEL

Product Name : Wall mount ESS Lifepo4 Battery

Model : Vx15100w 51.2V 100Ah 5.12KWh



Mode	Vx15100w
Battery Type	Lifepo4 battery
Battery Combination	16S1P
Case Numbers	1 pc
Mount type	Powerwall Mount
<b>Nominal Characteristic</b>	
Nominal Voltage	51.2V
Battery Capacity	100Ah
Nominal Energy Capacity	5.1KWh
Peak Output Current	100A
Round Trip Efficiency	96% - 99%
<b>Electrical Specifications</b>	
Voltage Range	58.4V
Max. Charging Current	100A
Max. Discharging Current	100A
<b>Mechanical Specifications</b>	
Net Weight	63.5kg
Dimension	150mm(T)X390mm(W)X470mm(L)
Color	White
Cooling	Nature
<b>Communication Specifications</b>	
Communication Port	RS485/RS232/CAN
<b>Operation Condition</b>	
Operation Temperature	-20-65°C
Recommended Temperature	0-65°C
Operation Humidity	60% ±25%
Storage Conditions	0-40°C
<b>Compliances</b>	
Certification	CE/IEC/UN38.3
Standards	EN61000-6-1:2007
	EN61000-6-3:2007+A1:2011
Inverter Type	Goodwe, Victron Energy, Growatt, Pylontech, Voltronics, Deye, Inhenergy etc
<b>Warranty</b>	
Warranty	3 years
Life design	10+ years
<b>Installation type</b>	
Installation type	Wall mounted
<b>Cycle life</b>	
0.2C at room temp	6000+ times( 80% DOD)
0.5C at room temp	4000+ times( 80% DOD)
1.0C at room temp	2500+ times( 80% DOD)

## BATTERY MANAGEMENT SYSTEM

### BMS Features

1. This BMS is designed for 16 series lithium battery.
2. This BMS is Features With:
  - Overcharge Detection Function
  - Over Discharge Detection Function
  - Over Current Detection Function
  - Short Detection Function
  - Temperature Detection Function
  - Alarm Function
  - Balance Function
  - Communicate Function

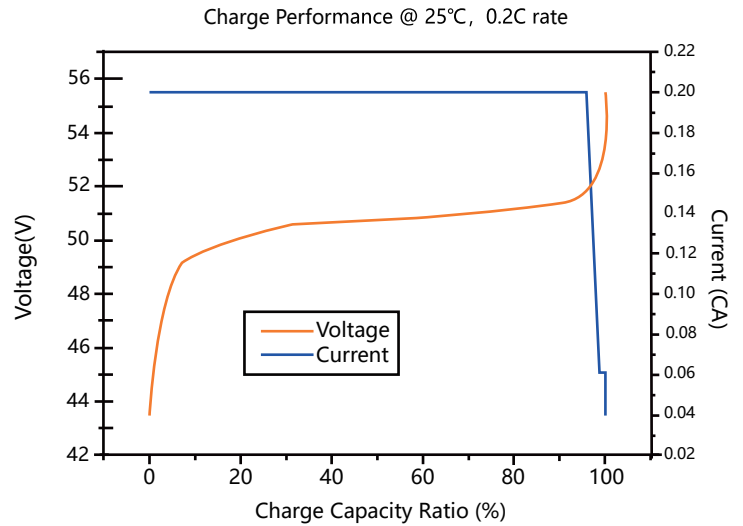
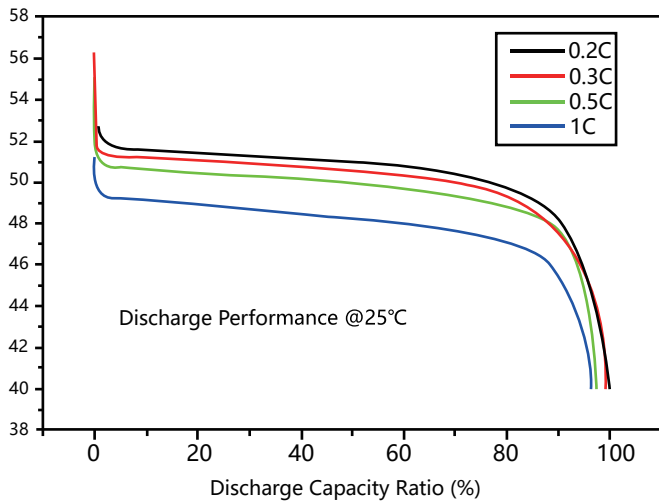
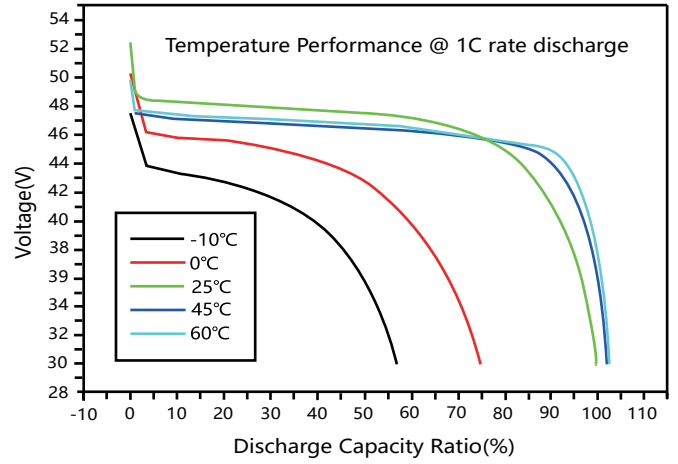
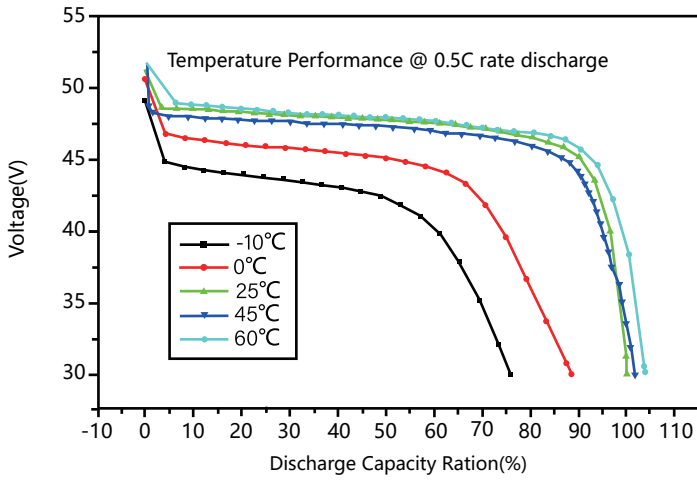


## STRATEGIC PARTNERS

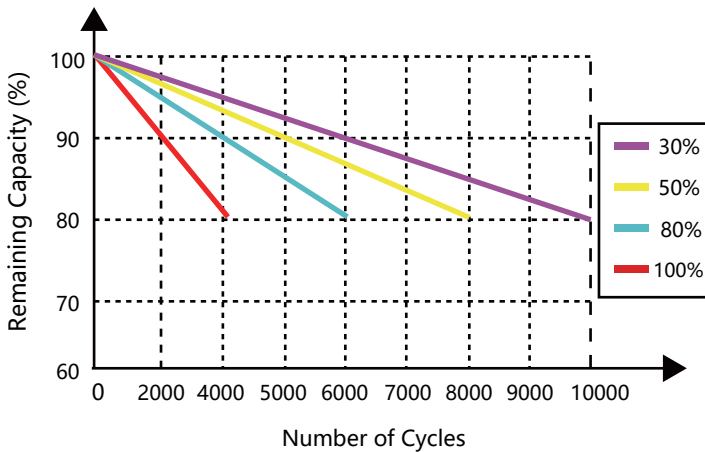


# APPENDIX

## Discharge & Charge Curve



Different DOD Discharge Cycle Life Curve @0.2C



Different Temperature Self Discharge Curve

