

VTCBATT TODAY, VICTORY TOMORROW!



ESS Lithium Ion Battery

Power Your Home With
Renewable Energy



www.vtc-energy.com
sales@vtc-energy.com



- ▶ Advanced internal design.
- ▶ Compact 3U Size
- ▶ Life design:10 years
- ▶ Warranty: 3 years
- ▶ Cycle life:6000+ times at 80% DOD
- ▶ Standard Rack type module and Easy installation
- ▶ Support Parallel Connection Max 15pcs,up to 76.8KWH
- ▶ Continuous Charging/ Discharging current:100A
- ▶ Compatiable with multiple inverters.
- ▶ RS485/CAN/232 communication
- ▶ Built-In Safety — Smart BMS with Breaker On/Off Switch for Shipping & Installation
- ▶ 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 76.8KWH

SCOPE

This specification is applied to the VTC standard rack type module battery home battery series only.

PRODUCT & MODEL

Product Name : Rack Type ESS Lifepo4 Battery

Model : Vxl 5100 51.2V 100Ah (5KWH)

PRODUCT SPECIFICATION



Mode	Vxl 5100
Battery Type	LiFePO4
Battery Combination	16S1P
Case Numbers	1 pc
Nominal Characteristic	
Nominal Voltage	51.2V
Battery Capacity	100Ah
Nominal Energy Capacity	5.12KWh
Peak Output Current	100A
Round Trip Efficiency	80% DOD
Electrical Specifications	
Voltage Range	45-57.6V
Max. Charging Current	100A
Max. Discharging Current	100A
Mechanical Specifications	
Net Weight	50kg
Dimension	430*442*136mm
Color	Black/White/Customizable
Cooling	Advanced Internal design&Natural Convention
Communication Specifications	
Communication Port	RS232/RS485/CAN
Operation Condition	
Operation Temperature	-20°C—60°C
Recommended Temperature	0°C—35°C
Operation Humidity	60%±25%
Designed Life	> 10 years
Storage Conditions	10°C—50°C
Compliances	
Certification	CE/EN62619/UN38.3/ROHS
Standards	EN61000-6-1:2007 EN61000-6-3:2007+A1:2011
Cycle life	
0.2C at 25°C	6000+ times(80%DOD)
0.5C at 25°C	4000+ times(80% DOD)
1.0C at 25°C	2500+ times(80% DOD)
Inverter Type	
Match with multiple inverter brand:Goodwe, Victron Energy, Growatt, Pylontech, Voltronics, Inhenery etc	

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

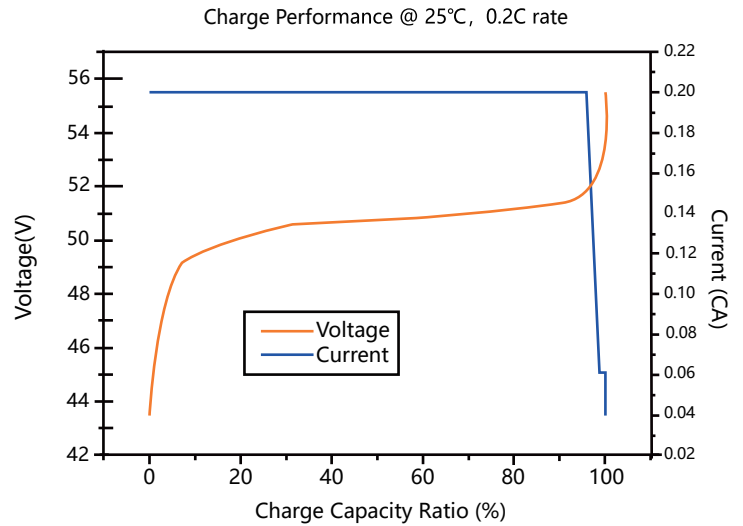
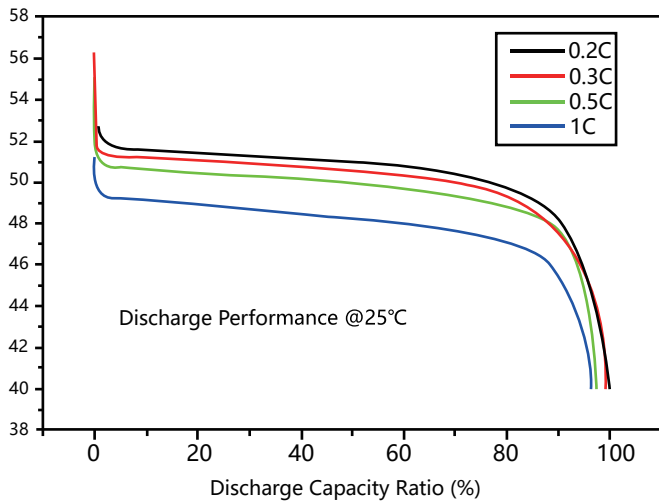
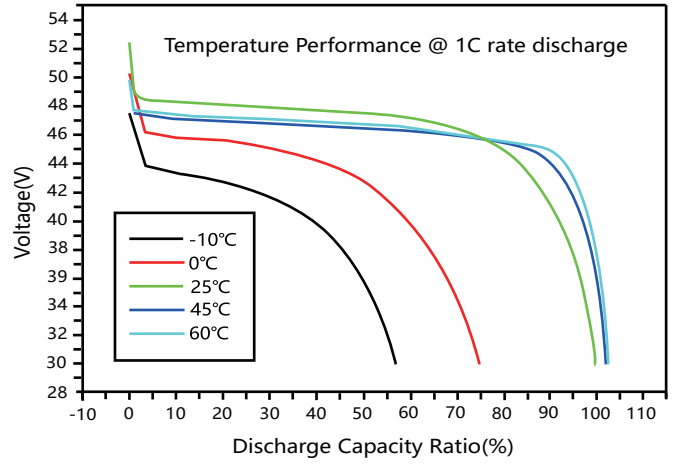
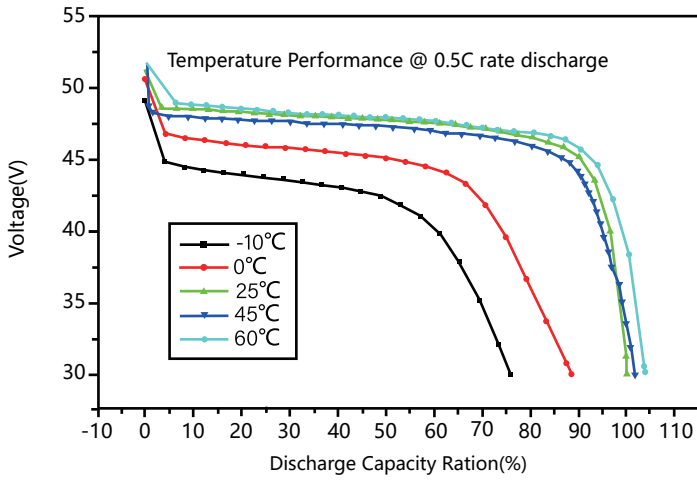


STRATEGIC PARTNERS

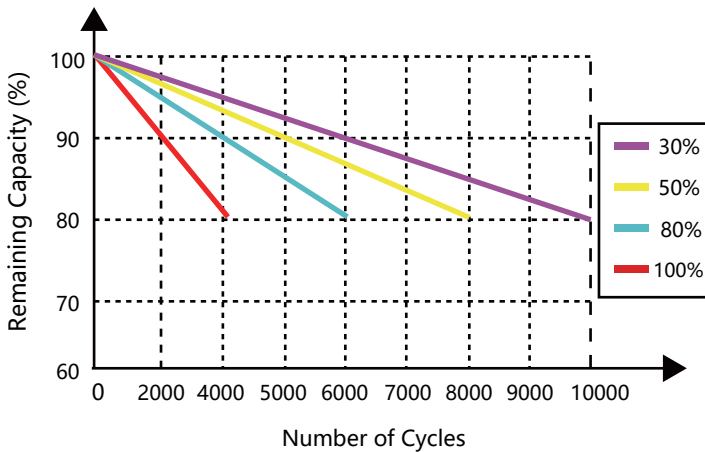


APPENDIX

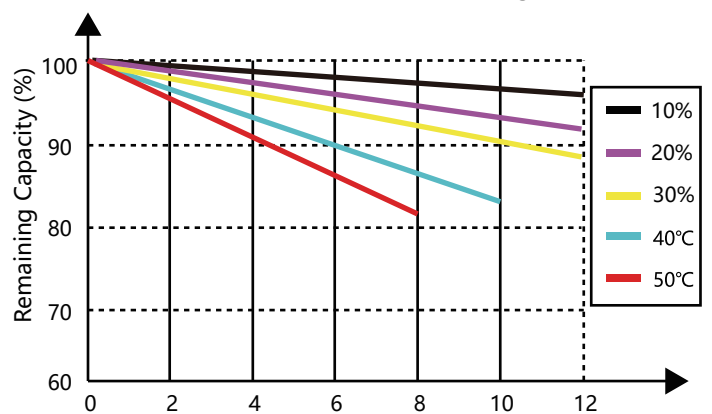
Discharge & Charge Curve



Different DOD Discharge Cycle Life Curve @0.2C



Different Temperature Self Discharge Curve



PRODUCT APPLICATION

