

Lithium Iron Phosphate (LiFePO4) Battery

VTM127(12.8V6Ah)

ELECTRICALSPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	6Ah
Capacity @ 3A	≥6Ah
Energy	76.8Wh
Resistance	≤70 mΩ
Efficiency	> 99%
Self-Discharge	<3% per Month
Maximum Modules in Series and Parallel	4S4P

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	12A
Peak Discharge Current	30A (3s)
Recommended Discharge end Voltage	11V
BMS Discharge Cut-Off Voltage	8.8V (2.2 ±0.1 v)

TEMPERATURE SPECIFICATIONS

Discharge Temperature	-20 to 60°C
Charge Temperature	0 to 50°C
Storage Temperature	10 to 40°C

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	L: 151±2mm W: 65±2mm H: 94±2mm
Weight	0.8 kgs
Terminal Type	F2
Case Material	ABS
Enclosure Protection	IP65
Cell Type	Cylindrical
Chemistry	LiFePO4

CHARGE SPECIFICATIONS

Recommended Charge Current	1.2 A
Maximum Charge Current	6A
Recommended Charge Voltage	14.4V
BMS Charge Voltage Cut-Off	15 V (3.75±0.05 v)

COMPLIANCE SPECIFICATIONS

Certifications	
Shipping Classification	

VOLTAMAX

PRODUCT SPECIFICATION

Lithium Iron Phosphate (LiFePO4) Battery

VTM127(12.8V6Ah)

DIMENSIONAL SPECIFICATIONS



L: 151±2mm

W: 65±2mm

H: 94±2mm

BAT+:

F2

BAT-:

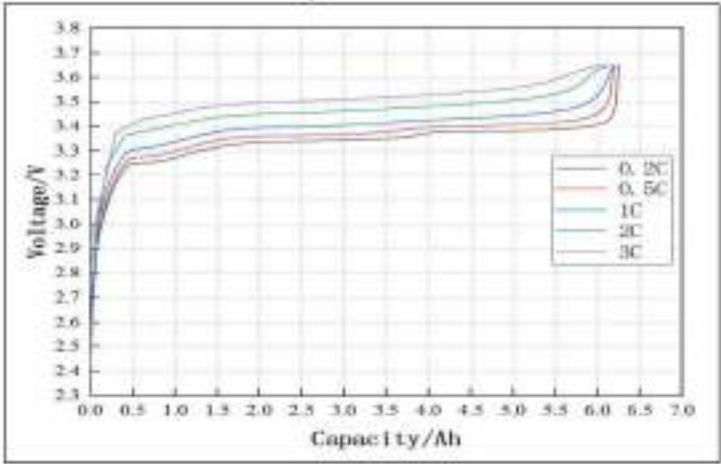
F2

Lithium Iron Phosphate (LiFePO₄) Battery

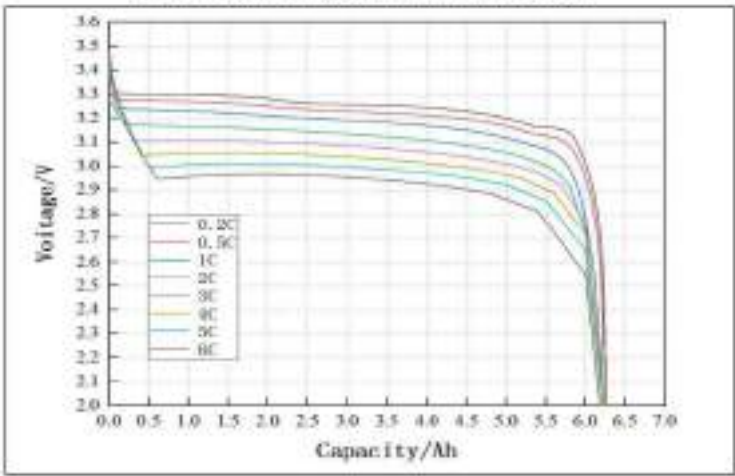
VTM127(12.8V6Ah)

PERFORMANCE CHARACTERISTICS

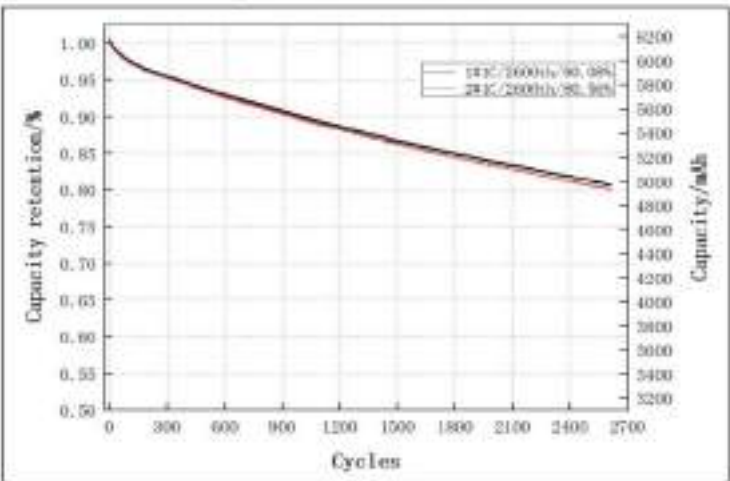
Different rate charge curve of 6.0Ah LiFePO₄ cell



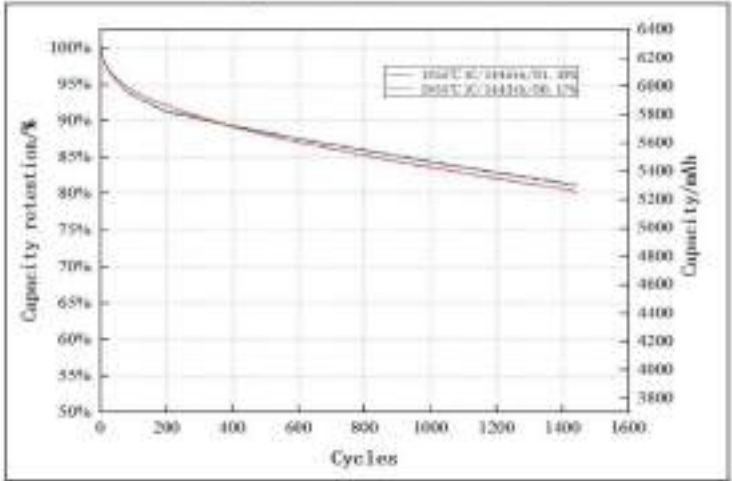
Different rate discharge curve of 6.0Ah LiFePO₄ cell



30±2℃ 1C cycle curve of 6.0Ah LiFePO₄ cell (A+)



55±2℃ 1C cycle curve of 6.0 Ah LiFePO₄ cell (A)



Lithium Iron Phosphate (LiFePO₄) Battery

VTM127(12.8V6Ah)

Cautions:

- * Do NOT short circuit, crush or disassemble
- * Do NOT heat or incinerate.
- * Do NOT immerse in any liquid.
- * Store at 50% capacity, Recharge every 6 months, The storage area should be clean, cool, dry and ventilated
- * Disconnect charging source prior to connecting or disconnecting battery terminals.
- * Do NOT dispose of batteries in a fire as they can explode.
- * Do NOT open, alter, or mutilate batteries. Released electrolyte is harmful to skin and eyes, it may be toxic.
- * Do NOT mix different types and brands of lithium-ion batteries.
- * Do NOT dispose in trash, follow local regulations and manufacturer's instruction.
- * See installation instructions before connecting to the supply.
- * The battery cabinet receives power from more than one source, Disconnected of all DC sources is required to De-energize this unit before installing or servicing, Wait 5 minutes before opening the unit.
- * Do NOT install on or over combustible surfaces
- * Refer to manual before servicing
- * Do NOT touch bare terminals.