

Lithium Iron Phosphate (LiFePO4) Battery

VTM1218(12.8V18Ah)

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	18Ah
Capacity @ 9A	≥18Ah
Energy	230.4Wh
Resistance	≤40 mΩ
Efficiency	> 99%
Self-Discharge	<3% per Month
Maximum Modules in Series and Parallel	4S4P

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	36A
Peak Discharge Current	90A (3s)
Recommended Discharge end Voltage	11 V
BMS Discharge Cut-Off Voltage	8.8 V (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: 181±2mm W: 77±2mm H: 170±2mm
Weight	2.3 kgs
Terminal Type	M5
Case Material	ABS
Enclosure Protection	IP65
Cell Type	Cylindrical
Chemistry	LiFePO4

CHARGE SPECIFICATIONS

Recommended Charge Current	3.6A
Maximum Charge Current	9A
Recommended Charge Voltage	14.4V
BMS Charge Voltage Cut-Off	15 V (3.75±0.05 v)

COMPLIANCE SPECIFICATIONS

Certifications	UN38.3
Shipping Classification	UN3480, Class 9

VOLTAMAX

PRODUCT SPECIFICATION

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DIMENSIONAL SPECIFICATIONS



The image shows a VOLTAMAX 12V-18 3800+ Cycles DEEP CYCLE LiFePO4 Battery. The battery is black with a red label. The label features the VOLTAMAX logo, the text 'DEEP CYCLE LiFePO4 Battery', and '12V - 18 3800+ Cycles'. Below this, there is a table of specifications and several warning icons. The table lists various parameters such as Nominal Voltage, Rated Capacity, and Discharge Current. The battery is shown from a three-quarter perspective, highlighting its rectangular shape and the terminal locations on top.

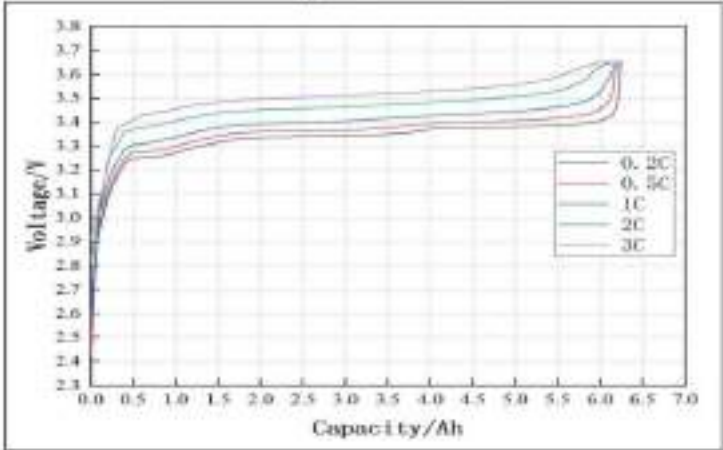
L: 181 ± 2mm		W: 77 ± 2mm		H: 170 ± 2mm	
BAT+ ₁	M5	BAT- ₁	M5		

Lithium Iron Phosphate (LiFePO4) Battery

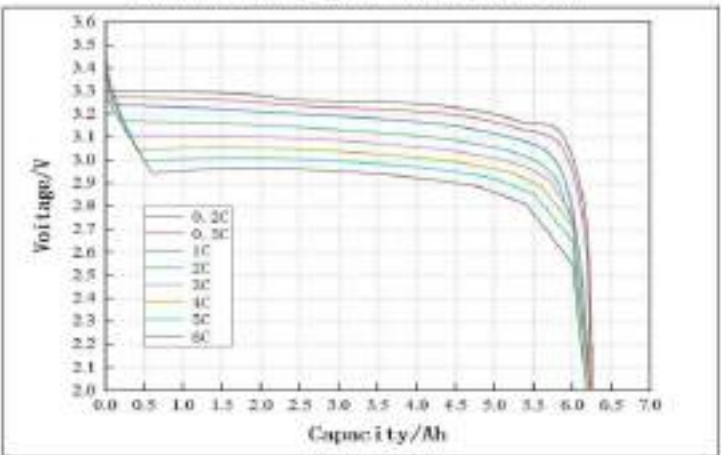
VTM1218(12.8V18Ah)

PERFORMANCE CHARACTERISTICS

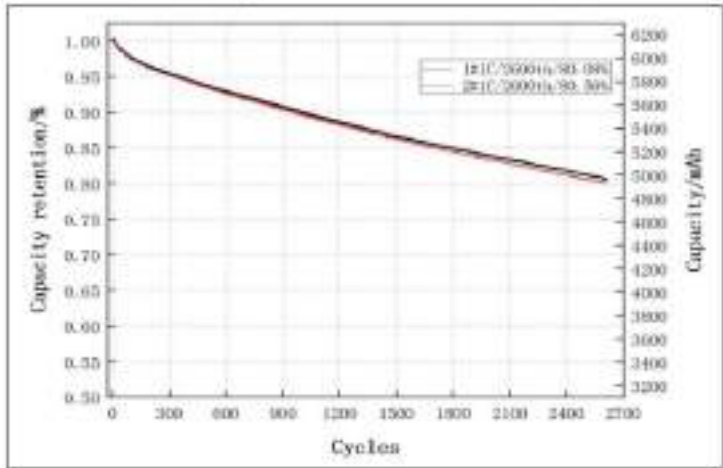
Different rate charge curve of 6.0Ah LiFePO₄ cell



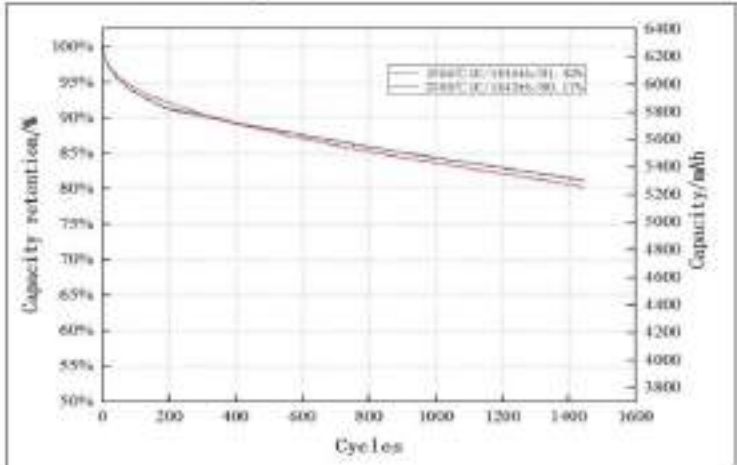
Different rate discharge curve of 6.0Ah LiFePO₄ cell



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



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



Lithium Iron Phosphate (LiFePO₄) Battery

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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.