



Smart



Self-Heating



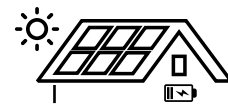
Height 190



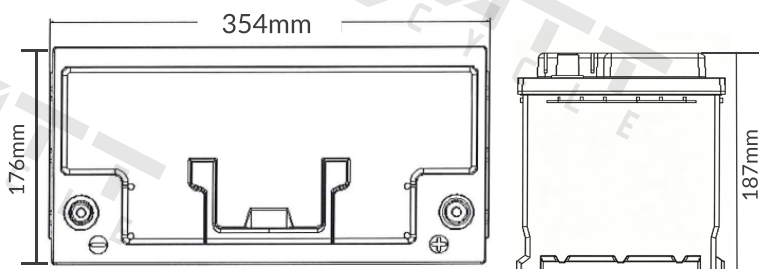
6000+ Cycles Life



IP65 Waterproof



RVs, Trolling Motor,
Home Storage, Solar System



Length : 354mm/13.94 inch

Width : 176mm/6.93 inch

Height : 187mm/7.36 inch

Weight : 11.35kg±3%/25.02 lb±3%

ELECTRICAL PERFORMANCE

Nominal Voltage	12.8V
Nominal Capacity	100Ah
Energy	1280Wh
Months Self Discharge	≤3%/Month
Cycle Life	6000@DOD80%

CHARGE PERFORMANCE

Charge Mode	CC/CV
Charge Voltage	14.6±0.2V
Recommended Charge Current	20A
Max. Continuous Charge Current	100A
Charge Cut-Off Voltage	14.6±0.2V

MECHANICAL PERFORMANCE

Shell Type	ABS
Size	354 x 176 x 187mm/ 13.94 x 6.93 x 7.36 inch
Weight	11.35kg±3%/25.02 lb±3%
Ingress Protection Rating	IP65
Terminal	M8

BMS SPECIFICATION

Overall Over-Charge Detection Voltage	14.6±0.2V
Overall Over-Discharge Detection Voltage	10±0.2V
1st Discharge Over-Current	110±10A/10s
2nd Discharge Over-Current	150±10A/1s
BMS High Temperature Cut-Off	Charge 55°C±5°C Discharge 60°C±5°C
BMS Low Temperature Cut-Off	Charge 0°C±5°C Discharge -20°C±5°C
High Temperature Recovery	Charge 50°C±5°C Discharge 55°C±5°C
Low Temperature Recovery	Charge 2°C±5°C Discharge -15°C±5°C

DISCHARGE PERFORMANCE

Recommended Discharge Current	50A
Max. Continuous Discharge Current	100A
Discharge Cut-Off Voltage	10±0.2V

TEMPERATURE PERFORMANCE

Charge Temperature	32°F~131°F/0°C~55°C
Discharge Temperature	-4°F~140°F/-20°C~60°C
Recommended Storage Temperature	32°F~113°F/0°C~45°C



LiFePO₄ Battery

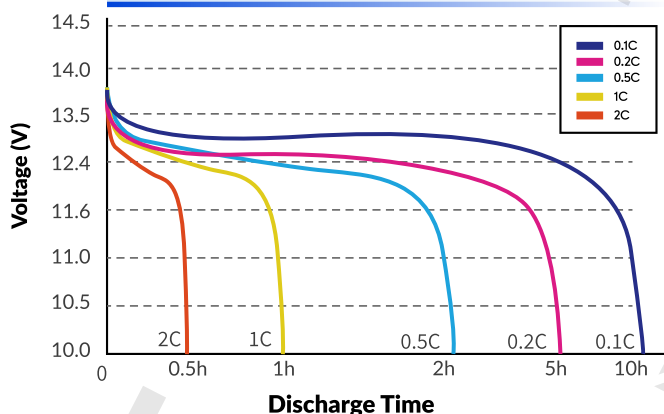
Datasheet

12.8V

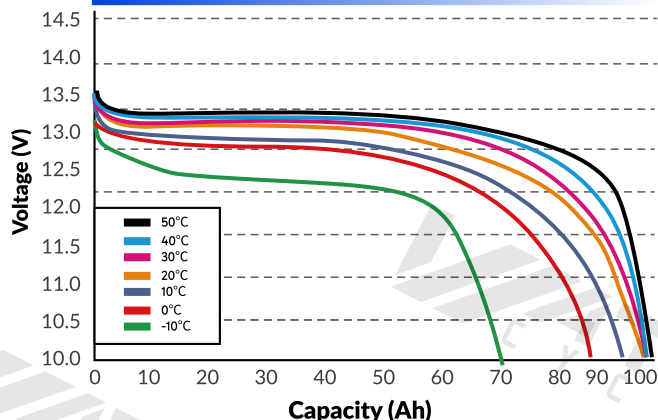
100Ah

100A BMS

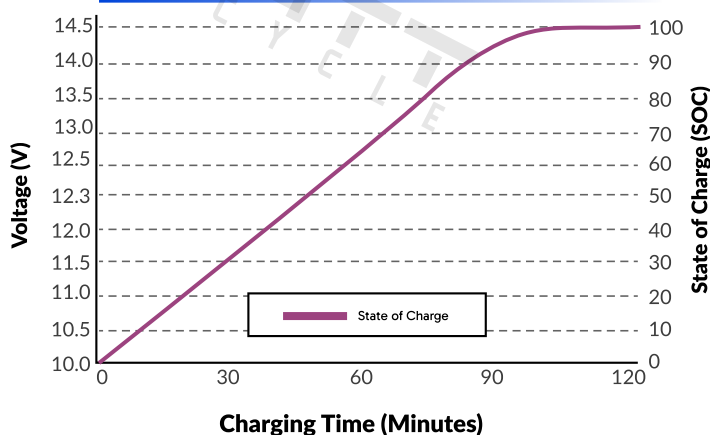
Different Rate Discharge Curve (25°C)



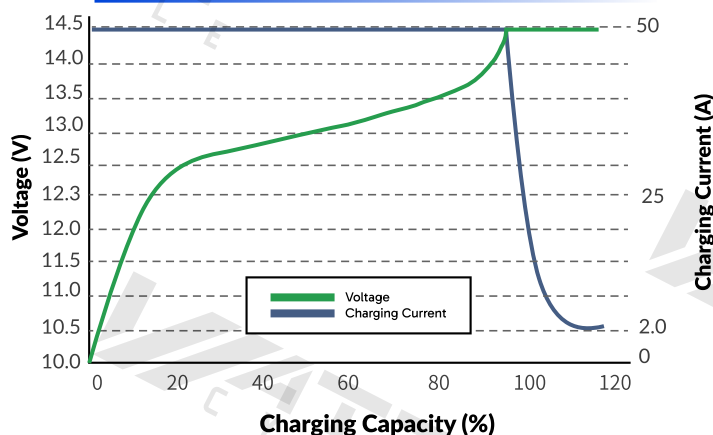
Different Temperature Discharge Curve at 0.5C



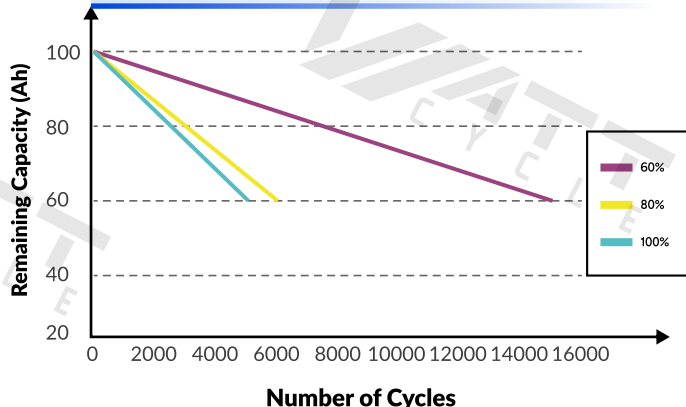
State of Charge Curve at 0.5C (25°C)



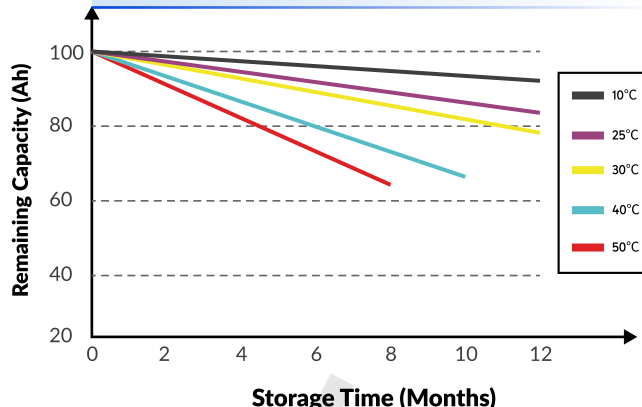
Charging Characteristics at 0.5C (25°C)



Cycle Life Curve at 1C According to DOD



Self Discharge Characteristics Curve



Warnings: The battery should be stored at an ambient temperature of 0°C to 55°C and should be charged to 30% to 50%. If stored for a long time, it is recommended to charge it every six months to prevent the battery from over-discharging. Please use a lithium iron phosphate charger when charging. Don't fix the positive and negative poles of the battery reversely. Don't disassemble the battery. Don't pierce the battery with pins or other sharp objects. Don't knock, throw or step on batteries, and don't immerse batteries in water. Don't throw the battery in fire or heat it.

