



Applications

- RV
- Backup power
- Solar energy storage system
- Angling boat
- Solar street LED lightings
- Marine

Product Feature

S-Series 12V lithium battery comparing to the same capacity lead-acid based batteries, it has more than twice of the usable capacity, more than 3 times of the life cycle, but only about 35% of the weight. It is a perfect replacement to the lead acid based batteries in the applications. More environmentally friendly than lead-acid batteries.

Electrical Parameters

Nominal voltage	12.8V (LFP-4S)
Nominal capacity	200Ah
Nominal energy	2560Wh
Efficiency	98%
Internal resistance	≤30mΩ @1kHz AC
Series parallel application	Max support 4 serial
	Max support 4 parallel
Self discharge rate	< 3% per month
Cycle life	> 2500 Cycles

Mechanical Parameters

Dimension(L*W*H)	484*170*241mm
	19.05*6.7*9.5'
Weight (No accessories)	About:25Kg(55.1lbs)
Terminal type	M8
Battery housing	ABS/UL-94 V0
IP level	IP54

Charge Parameters

Charg mode	CC-CV
Allowed MAX charge current	150A@25°C
Recommended charge current	≤100A
Normal charge voltage	14.4 -14.6V
Float charge voltage(for standby use)	13.8 -14.0V

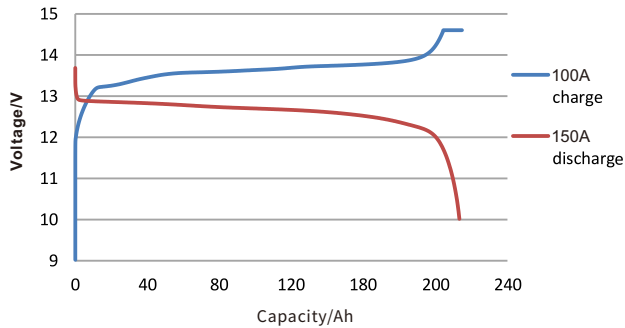
Discharge Parameters

Allowed MAX discharge current	180A@25°C
Pulse discharge current	500A/3s
Short circuit protection	800A/500us
End of discharge voltage	10.8V

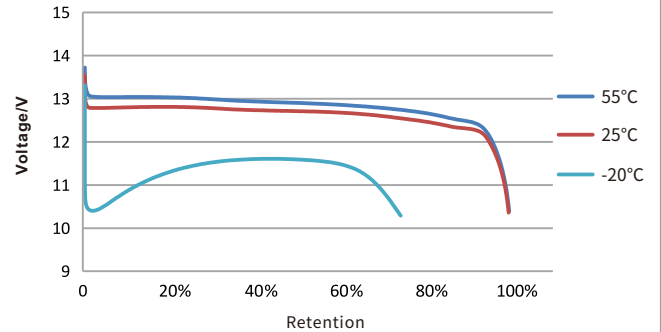
Temperature Parameters

Operation temperature	Charge	0~45°C (32 to 113°F)
	Discharge	-20~60°C (-4 to 140°F)
Storage environment	≤1month	-20~60°C (-4 to 140°F) /5~75%RH
	≥3month	-10~45°C (14 to 113°F) /5~75%RH
	Recommend environment	15~35°C (59 to 95°F) /5~75%RH
BMS high temperature cut-off	103°C (217.4°F)	

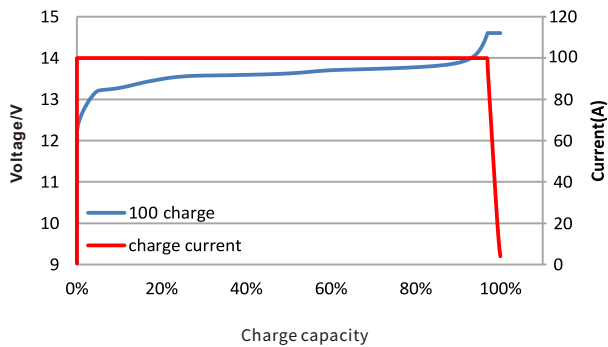
12V200Ah charge-discharge capacity curve@RT



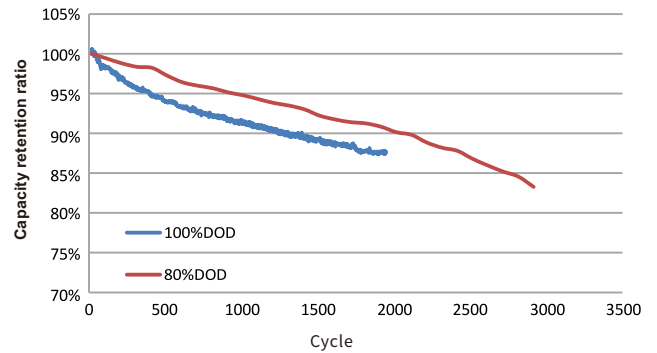
12V200Ah discharge curves at different temperatures



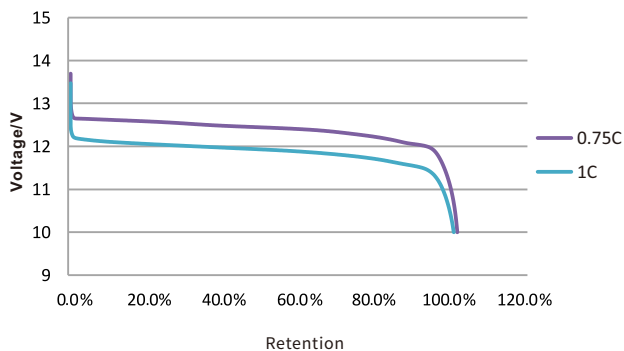
12V200Ah charge characteristics 0.5C @RT



12V200Ah different DOD 0.5C cycle life curve @RT



12V200Ah discharge curves at different rates@RT



Compliance Certificate

Certifications



Shipping classification

UN38.3 UN3480 CLASS:9

Battery Dimension

unit: mm

