



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	300Ah
Nominal energy	3.84KWh
Efficiency	98%
Internal resistance	≤30mΩ @1kHz AC
Pre-charge function	Support
Series parallel application	Max support 4 serial
	Max support 4 parallel
Cycle life	>2500 Cycles

Mechanical Parameters

Dimension(L*W*H)	520*268*211mm
	20.47**10.55**8.30'
Weight (No accessories)	About:37.7Kg(83.11lbs)
Terminal type	M8
Battery housing	ABS/UL-94 V0
IP level	IP54

Charge Parameters

Charge mode	CC-CV
Allowed MAX. charge current	200A@25°C
Recommended charge current	≤150A
Normal charge voltage	14.4 -14.6V
Float charge voltage(for standby use)	13.8 -14.0V

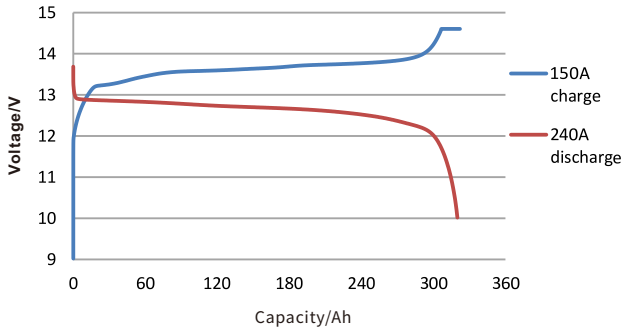
Discharge Parameters

Allowed MAX discharge current	200A@25°C	
Pulse discharge current	450A/5s	
Short circuit protection	800A/500us	
End of discharge voltage	10V	
Self discharge rate	Residual capacity	≤3%/Month; ≤15%/ year
	Recover capacity	≤1.5%/Month; ≤8%/ year

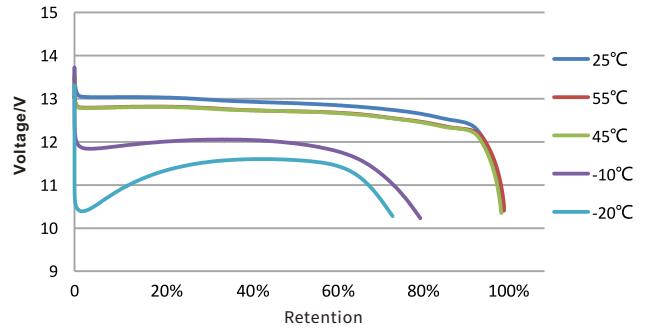
Temperature Parameters

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)

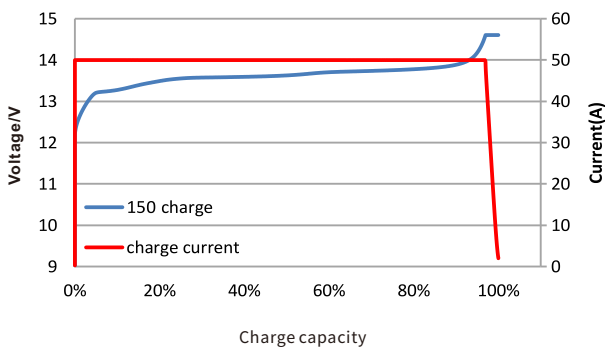
12V300Ah charge-discharge capacity curve@RT



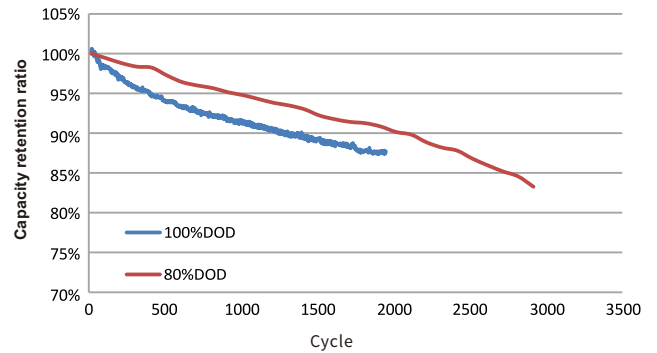
12V300Ah discharge curves at different temperatures



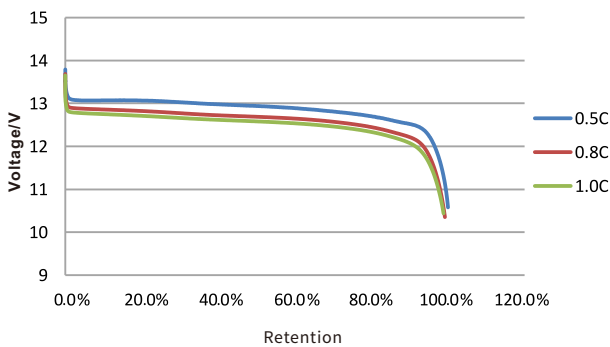
12V300Ah charge characteristics 0.5C @RT



12V300Ah different DOD 0.5C cycle life curve @RT



12V300Ah discharge curves at different rates@RT



Compliance Certificate

Certifications



Shipping classification

UN38.3 UN3480 CLASS:9

Battery Dimension

unit: mm

