



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	100Ah
Nominal energy	1280Wh
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)	307*168*211mm
	12.08*6.60*8.30'
Weight (No accessories)	About:12.5Kg(27.55lbs)
Terminal type	M8
Battery housing	ABS/UL-94 V0
IP level	IP54

Charge Parameters

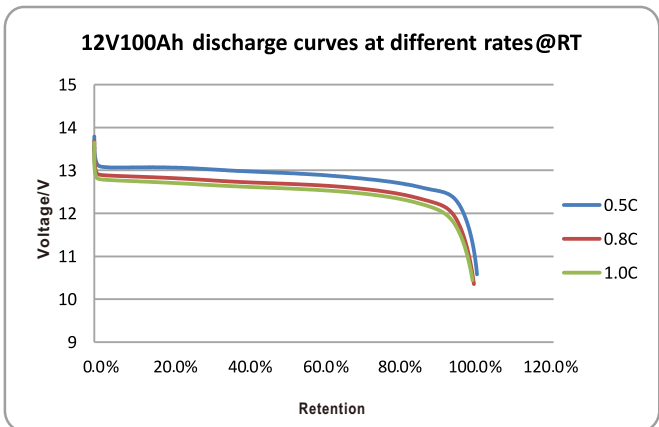
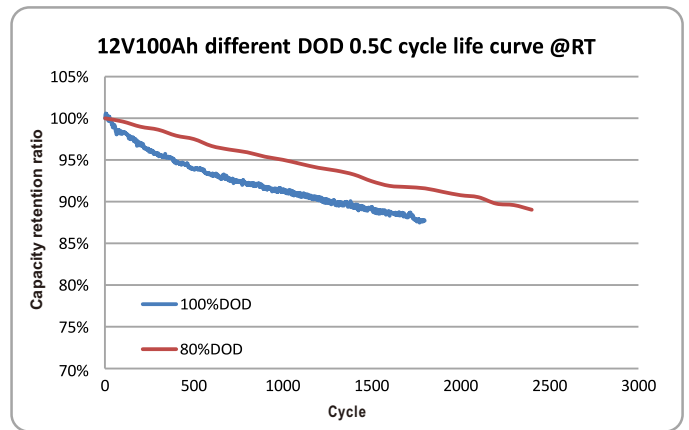
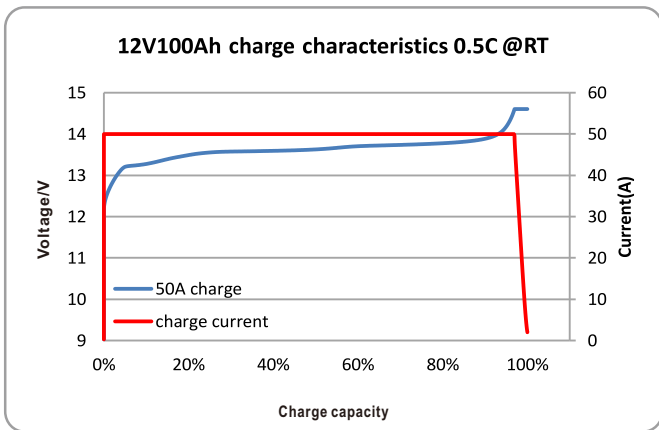
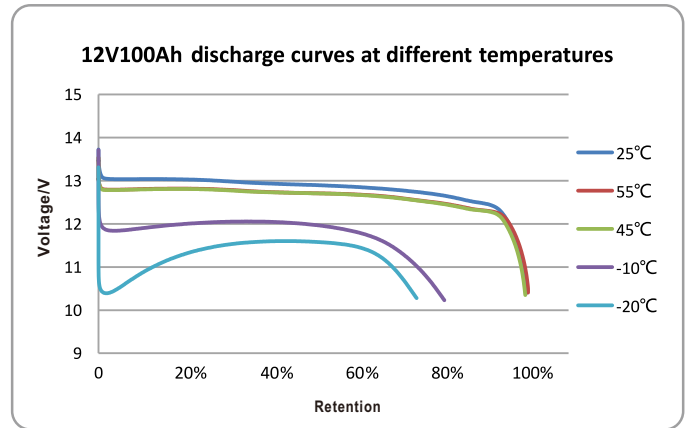
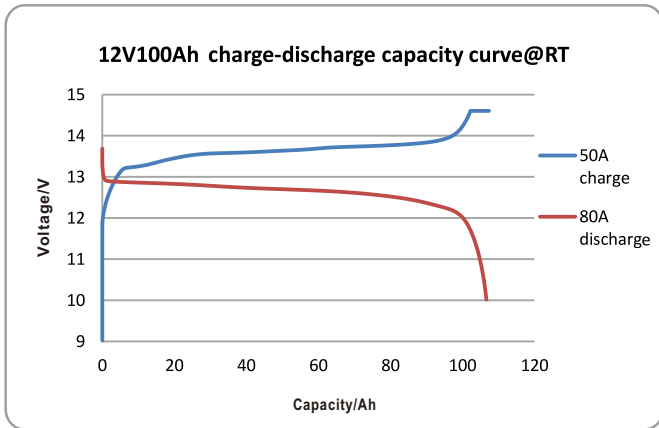
Charge mode	CC-CV
Allowed MAX charge current	100A@25°C
Recommended charge current	≤50A
Normal charge voltage	14.4 -14.6V
Float charge voltage(for standby use)	13.8 -14.0V

Discharge Parameters

Allowed MAX discharge current	100A@25°C
Pulse discharge current	350A/3s
Short circuit protection	500A/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)



Compliance Certificate

Certifications

Cells Conform to UL STD 1642

Shipping classification

UN38.3 UN3480 CLASS:9

Battery Dimension

