











Applications

- RV
- Marine
- Angling Boat
- Backup power
- Solar energy storage system
- Solar street LED lightings
- AGV
- Cleaning truck

Product Feature

-  IP67 protection rating.
-  Featured built-in BMS with multi-level safety protections & communication.
-  Standard Group 27 dimension, serviceable, with fixed bracket or hold-down tray.
-  Support multiple series and parallel connection.
-  UL1973/IEC62619/IEC62133/E-mark/CE/UN38.3 certificated
-  Bluetooth APP monitoring and upgrading(OTA).
-  6000+Cycle Life, 80%DOD.
-  Built-in Battery Heating (standard).

Electrical Parameters

Nominal voltage	12.8V
Nominal capacity @0.2C	100Ah
Nominal energy @0.2C	1280.0Wh
Internal resistance	≤30mΩ @1kHz AC
Parallel and series connection	Max. 16 in parallel Max. 4 in series and 4 in parallel
Communication	CAN/RS485/Bluetooth(TOPBAND)
Self-discharge rate	≤3% Per month
Cycle life	≥6000 Cycles

Mechanical Parameters

Dimension(L*W*H)	308*168*211mm
	inch: 12.13*6.61*8.31"
Weight (No accessories)	≈12kg(26.45lbs)
IP level	IP67
Terminal and torque	M8 10N·M
Operation altitude	< 3000m

Charge Parameters

Charge voltage range	14.2~14.6V
Float voltage range	13.6~13.8V
Allowed MAX charge current	100A @25°C
Recommend charge current	50A

Discharge Parameters

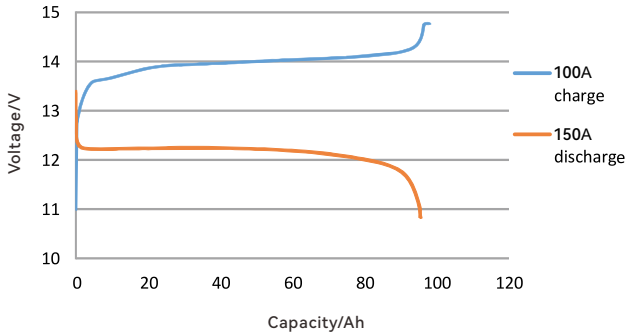
Allowed MAX discharge current	150A @25°C
Recommend discharge current	100A
Peak/Surge current limit	<500A@3S
Short circuit protection	<1000A@500uS
End of discharge	11~11.6V

Temperature Parameters

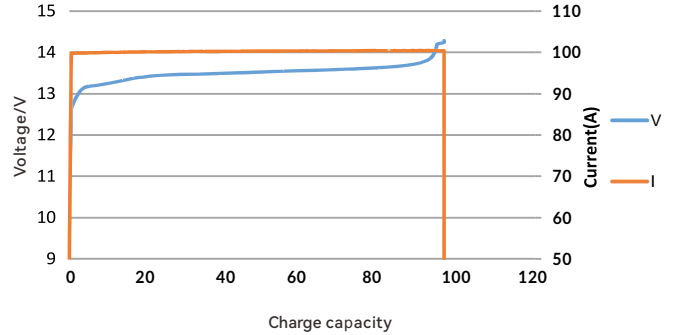
Operation temperature	Charge	-20~60°C (-4 to 140°F) with heater
	Discharge	-20~60°C (-4 to 140°F)
Storage environment	≤3month	-10°C<T<40°C
	≥6month	0°C<T<30°C
	Recommend environment	15 ~ 35°C 5 ~ 75%RH
	Heater	YES

All test data are tested by TOPBAND laboratory, and Topband has all interpretation rights. The above parameters are subject to change without prior notice, and the final data is subject to the product specifications.

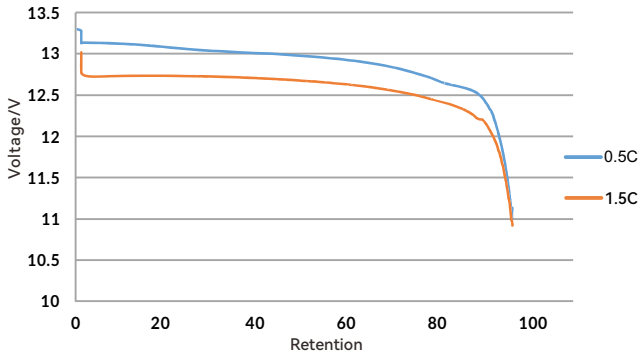
12V100Ah charge-discharge capacity curve@RT



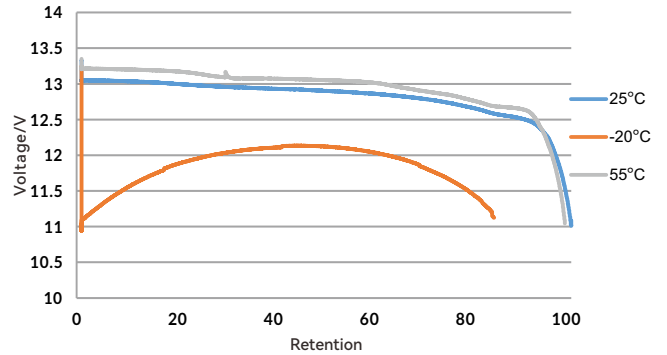
12V100Ah 1C charge @RT



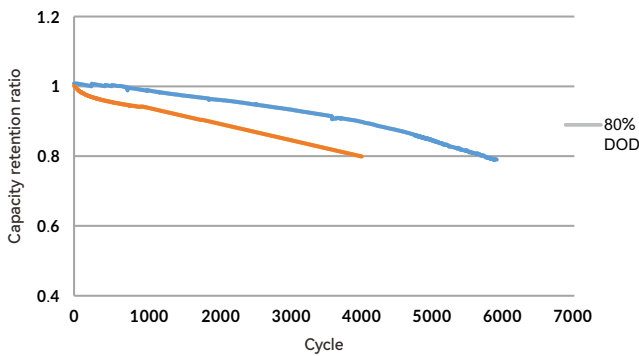
12V100Ah discharge curves at different rates @RT



12V100Ah discharge curves at different temperatures



12V100Ah different DOD 0.2C cycle life curve @RT



Compliance Certificate

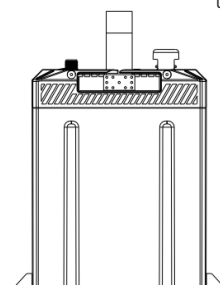
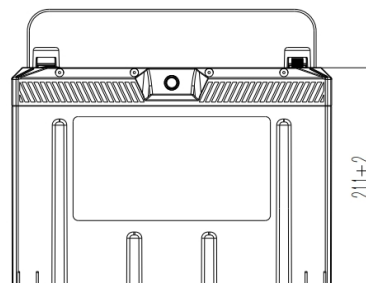
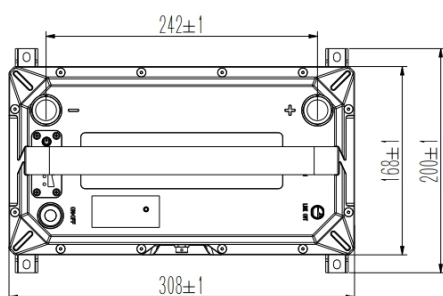
Certifications



Shipping classification

UN38.3 UN3480 CLASS:9

Battery Dimension



unit: mm