



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.
-  Smart Active Balancing to ensure cell consistency and longer durability.
-  Lead acid batte replacement, case serviceable, hold-down tray optional.
-  Support multiple series and parallel connection.
-  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	460Ah
Nominal energy @0.2C	5888.0Wh
Internal resistance	≤10mΩ @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)	500*265*232.5mm
	inch: 19.68*10.43*9.15
Weight (No accessories)	≈45kg(99.21lbs)
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	300A @25°C
Recommend charge current	150A

Discharge Parameters

Allowed MAX discharge current	300A @25°C
Recommend discharge current	150A
Peak/Surge current limit	1200A@5S
Short circuit protection	1500A/500us
End of discharge	11~11.6V

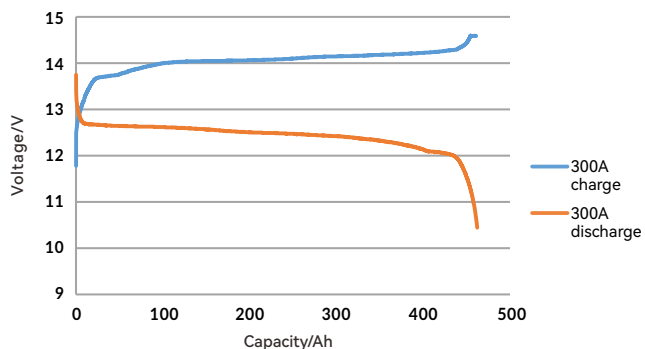
Temperature Parameters

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

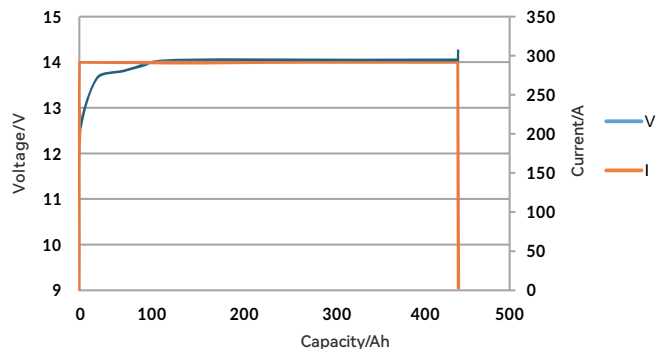
All test data are tested by TOPPAND laboratory, and Topband has all interpretation rights.

The above parameters are subject to change without prior notice, and the final data is subject to the product specifications.

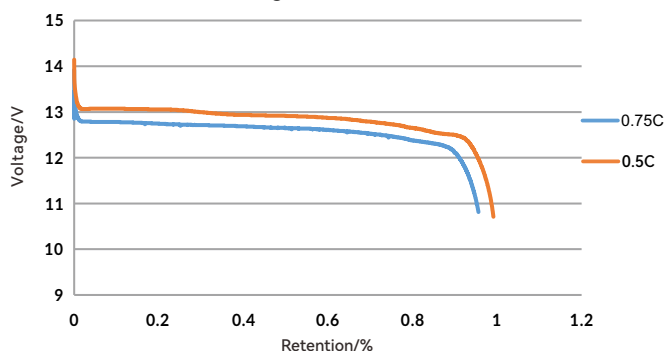
12V460Ah Charge-discharge capacity curve@RT



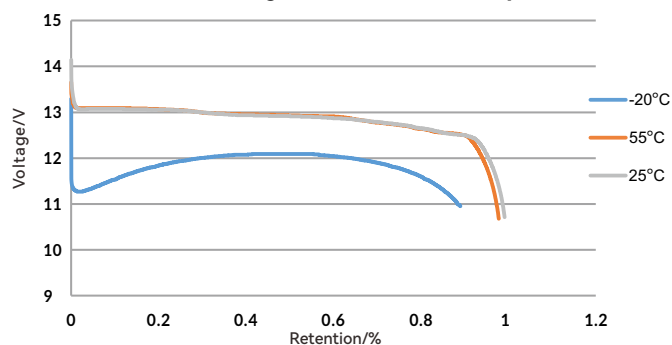
12V460Ah 300A charge @RT



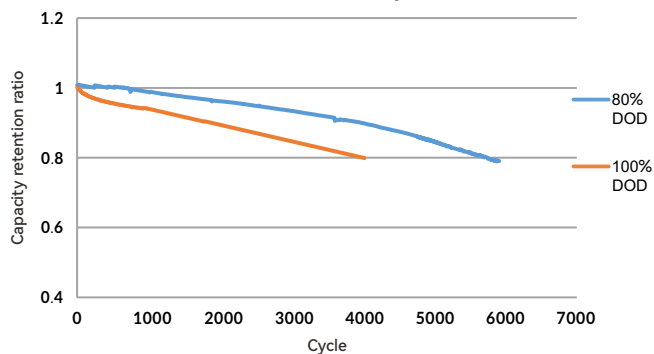
12V460Ah Discharge curve at different rates@RT



12V460Ah discharge curve at different temperatures



12V460Ah different DOD 0.2C cycle life curve @RT



Compliance Certificate

Certifications



Shipping classification

UN38.3 UN3480 CLASS:9

Battery Dimension

unit: mm

