



T-Premium Series

SAFETY

- Pack certifications: UN38.3, CE
Cell certifications: UN38.3, UL1973, UL9540A, IEC62133
- Waterproof IP67, with safety valve
- Insulated enclosure to prevent short circuit

FLEXIBLE

- Support up to 4 batteries in series to form a 48V system
- Support 4 batteries in series and parallel at the same time
- Up to 16 batteries can be connected in parallel

INTELLIGENT

- Support Bluetooth APP, APP support customization
- Communication modes: CAN/RS485. can be compatible with mainstream inverters
- On/off switch, LED indicator, check the SOC of the battery
- Cloud platform OTA, Bluetooth upgrade BMS program

RELIABLE

- Independent charge and discharge protection
- Intelligent BMS management includes protection functions for high/low voltage, high/low temperature, overload, and short circuits
- Support low temperature heating, can discharge at temperatures down to -20°C(-4°F)

Model	R-T12100B	R-T12200B	R-T12300B
Nominal voltage	12.8V		
Nominal energy@0.2C	1280Wh	2560Wh	3840Wh
Nominal capacity@0.2C	100Ah	200Ah	300Ah
Internal resistance@1kHz AC	≤30mΩ		
Allowed MAX. charge current	100A @25°C	200A @25°C	300A @25°C
Allowed MAX. discharge current	150A @25°C	200A @25°C	300A @25°C
Recommend charge current	50A	100A	150A
Recommend discharge current	100A	100A	150A
Peak/Surge current limit	500A@3s	800A@5s	1000A@5s
Short circuit protection	1000A@500μs	1200A@500μs	1200A@500μs
Charge voltage	14.2V		
Floating voltage	13.8V		
End of discharge	11.2V		
Communication	Bluetooth, CAN and RS485		
IP rating	IP67		
Cycle life	≥6000 cycles		
Weight	≈13.5kg (29.7 lbs)	≈22.5kg (49.6 lbs)	≈38kg (83.7 lbs)
Dimensions(W*H*D)	308*168*211mm (12.1*6.6*8.3 inch)	485*172*231mm(19.0*6.7*9.0 inch)	500*250*231mm(19.6*9.8*9.0 inch)
Parallel and series connection	Support Max. 16 in parallel or Max. 4 in series		
Terminal and torque	M8 bolt 8-10N·M		
Operation altitude	< 3000m		
Operation temperature	Charge -20~60°C (-4°F ~ 140°F) , Discharge -20~60°C(-4°F ~ 140°F)		
Self-discharge rate(shutdown)	≤3% Per month		
Recommended storage temperature	-10°C ~ 40°C (14°F ~ 104°F)		
Recommended humidity	5 ~ 75%RH		
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