

12V Series All Purpose Lithium Ion Battery



PYLONTECH

12V Series - All Purpose Lithium Ion Battery

The RT 12V Series battery is an all-purpose lithium-ion battery module developed with a cutting-edge LFP (Lithium Iron Phosphate) cell, embedded BMS (Battery Management System), and robust mechanical design that provides inherent safety, extremely high reliability, and zero maintenance.

The RT 12V Series battery's built-in heating film technology performs at temperatures as low as -40°C . The module weight less than half of the same capacity lead-acid battery, providing superior performance in cold weather while saving weight.

Key Features

- **Ultra-Safety**
The battery management system (BMS) provides comprehensive protection to the battery and manages the charging/discharging process wisely.
- **Auto-Balance**
Connects multiple batteries in parallel safely without internal state non-uniformity issues.
- **Uncompromising Quality**
State-of-the-art battery cells ensure a lifespan of more than 6000 cycles, 100A continuous discharge current, and a wide range of operation temperature.
- **Communication**
CAN, RS485, Blue Tooth, Dry Contact enable data transmission to meet the needs of different usage scenarios.

All Purpose Lithium Ion Battery	RT12100G31
Electrical	
Nominal Voltage(V)	12.8
Nominal Capacity(Ah)	100
Charge Voltage(VDC)	14V-14.4
Nominal Operation Current(A)	50
Max. continuous operation current(A)	100
Peak Current(A)	200@30sec
Serial Connection / Parallel Connection	≤ 4 pcs / ≤ 4 pcs
Structure	
Dimension (mm)	325 x 173.5 x 226
Weight(Kg)	13 \pm 0.2
IP rating	IP67
Terminal	M8 bolt
Working Environment	
Charge working temperature ($^{\circ}\text{C}$)	0~60
Discharge working temperature ($^{\circ}\text{C}$)	-20~60
Communication	
RS485	115200bps
CAN	500Kbps
Bluetooth	BLE5.0
Dry contactor	2 <inputs &="" 2<output=""></inputs>