

# **12V Series All-Purpose Lithium Ion Batteries**







## KEY FEATURES

### Auto-Balance

Connects multiple batteries in parallel safely without internal state non-uniformity issues.

### Ultra-Safety

The battery management system (BMS) provides comprehensive protection to the battery and manages the charging/discharging process wisely.

### Uncompromising Quality

State-of-the-art battery cells ensure a lifespan of more than 4500 cycles, 100A/module continuous discharge current, and a wide range of operation temperature.

### Communication

CAN, RS485, Bluetooth, Dry Contact enable data transmission to meet the needs of different usage scenarios.



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  $-40^{\circ}\text{C}$ . The module weight less than half of the same capacity lead-acid battery, providing superior performance in cold weather while saving weight.

**200%**

Twice the power  
of traditional batteries

**40%**

40% weight of the  
same capacity lead  
acid battery

**4500+**

More than 4500+cycles  
maximizes your RoI

**IP67**

High level class  
protection  
from dust tight and  
water proof

**1C**

1C continuous power  
and  
2C peak power

**$-40\sim 60^{\circ}\text{C}$**

Wider range  
of applications  
in extreme weather

### Intelligent Battery Management System



Temperature  
Protection



Over-Voltage  
Protection



Over-Current  
Protection



Short-Circuit  
Protection



Heating  
Film







Top Safety  
Dual Protection

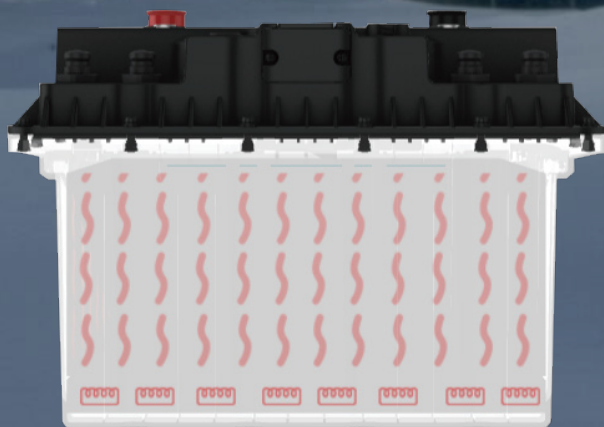


Smart APP



# Innovative Heating Film Technologies

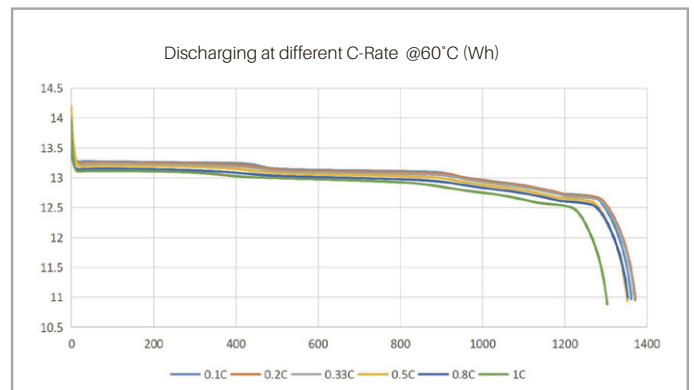
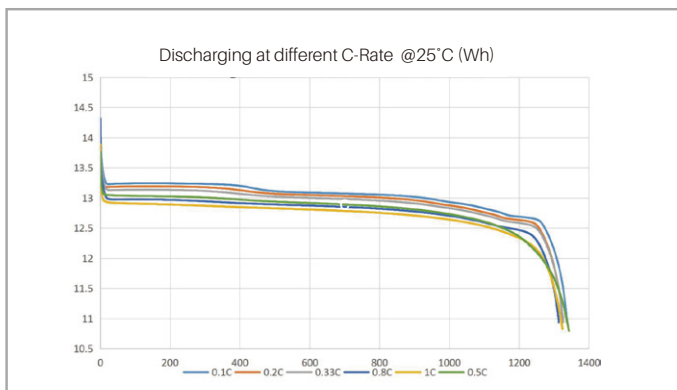
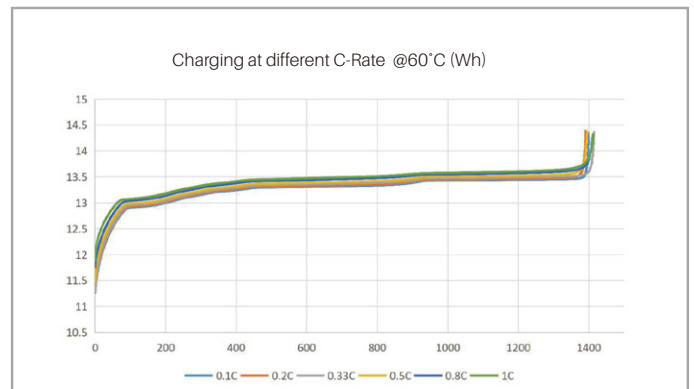
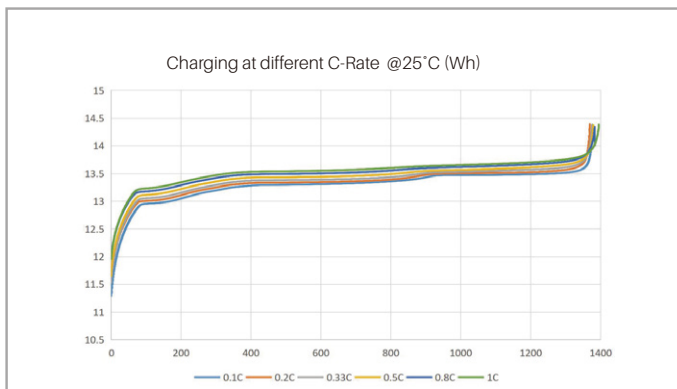
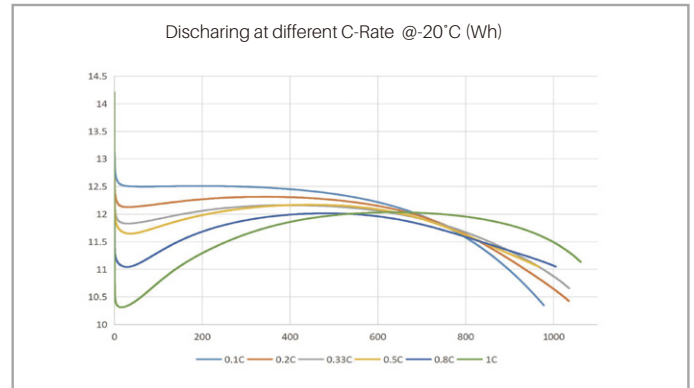
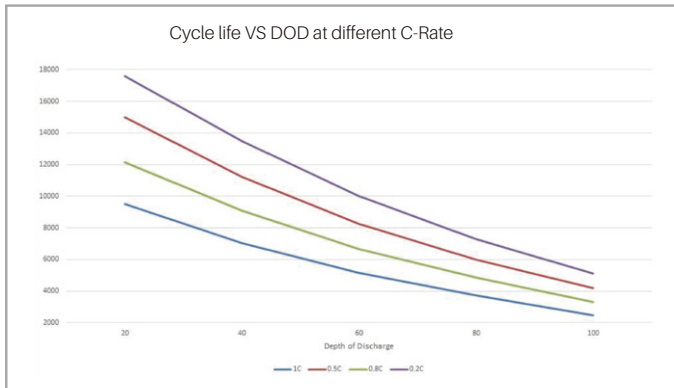
-  Enable to charge the battery
-  Obtained more usable capacity
-  Improving charging/discharging efficiency
-  Prolong the battery life  
under low-temperature environment



Still Working  
in **COLD WINTER**

# CHARACTERISTICS CHARTS

RT12100G31  
(12.8V 100Ah 1280Wh)





# SPECIFICATIONS

Nominal Voltage (Vdc)	12.8
Nominal Capacity (Ah)	100
Battery Capacity (Wh)	1280

Dimension W*D*H (mm)	325*173.5*238
Weight(kg)	12±0.2
IP Rating	IP67
Power Terminal	M8 bolt
Internal Resistance(mΩ)*	<20
Working Voltage Range(Vdc)	10.8~14.4
Charge Voltage(Vdc)	14~14.4

Nominal Operation Current(A)	20
Max. Continuous Operation Current(A)	100
Peak Current(A)	200@30sec

Single String Quantity(pcs)	≤16
(Serial connection voltage / pcs: ≤ 51.2Vdc / 4pcs)	

Charge working temperature (℃)	0 ~ 60
Discharge working temperature (℃)	-20 ~ 60
Working temperature (℃) *	-40 ~ 60
Altitude (M)	<4,000
Humidity(RH, %)	5~95 (w/o condensing)

## Communication

RS485	115200bps
CAN	500Kbps
Bluetooth	BLE5.0
Dry contact	2×inputs 2×outputs

## Certification

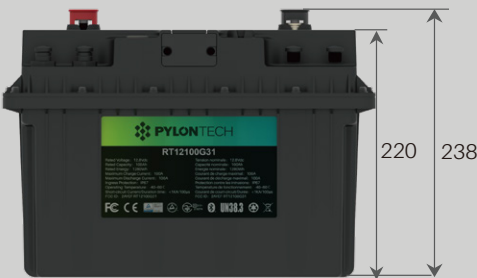
SAE J930, SAE J1455, UL1973, IEC62619, FCC, CE, Telec, Bluetooth SIG, UN38.3



12 Volt Lithium-Iron-Phosphate Batteries smart with **Bluetooth**



Being nearly 60% lighter and 50% smaller than its equivalent lead acid cousin makes for a **Superior Alternative**



# For Multiple Scenarios

Caravan/RV  
Truck  
Marine  
Golf Cart  
AGV  
Solar Energy Storage  
Off-grid Back Up  
Boating  
Off-Roading

**Explore The World In Your Way**

Pylon Technologies Co., Ltd  
No. 73, Lane 887, Zu Chongzhi Road, Zhangjiang Hi-Tech Park  
Pudong, Shanghai  
201203, China

[www.pylontech.com](http://www.pylontech.com)  
[sales@pylontech.com.cn](mailto:sales@pylontech.com.cn)

