

# 12V Series All Purpose Lithium Ion Batteries

The Pylontech 12V Series are developed all-purpose lithium ion battery modules. With the cutting edge LFP (Lithium iron Phosphate) cell, embedded BMS (Battery Management System) and mechanical design, Pylontech RT12V Series product provides inherent safety, extreme high reliability and zero maintenance. Comparing to the same capacity lead-acid based batteries, it has more than twice of the usable capacity, more than 3 times of the life cycle, but only about 40% of the weight. It is a perfect replacement to the lead acid based batteries in the applications such as marine, RV, golf carts and solar storage. RT12V Series product will bring you the perfect experience in different applications.



## Intelligent Battery Management System



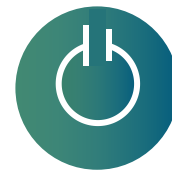
Temperature  
Protection



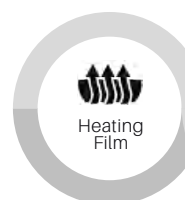
Over-Voltage  
Protection



Over-Current  
Protection



Short-circuit  
Protection



Heating  
Film



Active Balancing  
Strategy

For more about Pylontech product range  
and solutions, visit

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





*RT12100G31 provides 60% more usable power than its equivalent lead acid cousin and being nearly 60% lighter and 50% smaller makes for a superior alternative.*



## 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.

### ***Uncompromised 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, BlueTooth, Dry Contact enable data transmission to meet the needs of different usage scenarios..



# Continually Value for Better life with the Smart Power.

*12 Volt Lithium-Iron-Phosphate Batteries Smart With Bluetooth*



# TECHNICAL SPECIFICATIONS

Modele	RT12100G31
<b>Electrical</b>	
Nominal Voltage(V)	12.8
Nominal Capacity(Ah)	100
Working Voltage Range(VDC)	10.8~14.4
Internal Resistance(mΩ)	<20
Charge Voltage(VDC)	14V-14.4
Nominal Operation Current(A)	20
Max. continuous operation current(A)	100
Peak Current(A)	200A@30sec
Serial Connection	≤4 pcs
Parallel Connection	≤4 pcs
<b>Structure</b>	
Dimension ( mm )	325*173.5*226
Weight(Kg)	13kg±0.2
IP rating	IP67
Power Terminal	M8 bolt
<b>Working Environment</b>	
Charge working temperature (°C)	0 ~ 60
Discharge working temperature (°C)	-20 ~ 60
Working temperature (°C)	-40 ~ 60*
Altitude (M)	<4,000
Humidity(RH)	5~95% ( w/o condensing)
<b>Communication</b>	
RS485	115200bps
CAN	500Kbps
Bluetooth	BLE5.0
Dry contactor	2×inputs & 2×outputs
<b>Certification</b>	
SAE J930, SAE J1455, UL 1973, IEC62619,FCC,CE, Bluetooth SIG, UN38.3	

\*During -40 °C ~ -20°C , only heater will be enabled for heating up the module, battery cannot charge/discharge during such period.

