

### **KEY FEATURES**

200%

Twice the power of conventional batteries

40%

Weight of the same capacity lead acid battery

4500+

More than 4500+ cycles maximum your ROI

**IP67** 

High level class protection from dust tight and water proof

**1C** 

1C cintinuous power 2C peak power

-40~60°C

Wider range of applications in extreme weather

#### **Intelligent Battery Management System (BMS)**

#### **Ultra-Safety**

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 4500 cycles.

#### Communication

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

# 12V Series All Purpose

Lithium Ion Batteries



Temperature

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Over-Voltage

Over-Current



Heating



Parallel & Serial Balancing Strategy



Short-circuit



## **SPECIFICATION**

Model	RT12100G31
Electrical	
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)	50
Max. continuous operation current(A)	100
Peak Current(A)	200@30sec
Serial Connection	≤4 pcs
Parallel Connection	≤4 pcs
Structure	
Dimension (mm)	325*173.5*226
Weight(Kg)	13±0.2
IP rating	IP67
Power Terminal	M8 bolt
Working Environment	
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)
Communication	
RS485	115200bps
CAN	500Kbps
Bluetooth	BLE5.0
Drygontactor	2×inputs & 2×outputs
Dry contactor	

During -40  $^{\circ}$ C ~ -20  $^{\circ}$ C, only heater will be enabled for heating up the module. Battery cannot be charged /discharged in such temperature range.





