



# 12V Series

## All Purpose Lithium Ion Batteries



Temperature  
Protection



Over-Voltage  
Protection



Over-Current  
Protection



Heating  
Film



Parallel & Serial  
Balancing Strategy



Short-circuit  
Protection

## 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 continuous 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.



# 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
Dry contactor	2×inputs & 2×outputs
Certification	
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 be charged /discharged in such temperature range.

