



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.

