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 cintinuous power
2C peak power

-40~60℃
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 (℃)	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 contactor	2×inputs & 2×outputs
Certification	
SAE J930, SAE J1455, UL1973，IEC62619,FCC,CE，Bluetooth SIG, UN38.3	

During -40℃~-20℃, only heater will be enabled for heating up the module. Battery cannot be charged /discharged in such temperature range.