12V Series
All Purpose Lithium Ion Batteries

Temperature Protection

Over-Voltage Protection

A 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.

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RT12100G31
Rated Voltage : 12Vdc
Rated Capacity : 100Ah
Rated Energy : 1200Wh
Maximum Charge Current : 100A
Maximum Discharge Current : 100A
Projection Rating : IP67
Operating Temperature : -40~60℃
FCC ID : 2AYEF-RT12100G31

CE FC UN38.3

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.

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