

NA30A12PRO



12V 30Ah 360Wh



◆ Application

- Replace lead-acid batteries.
- RV & camping energy storage.
- Solar off-grid energy storage system.
- Security monitoring & camera backup power.
- Marine & yacht auxiliary power supply.
- Communication base station backup power.

◆ Advantage

- High safety, no thermal runaway.
- Ultra-wide temperature range applications: -30~60°C.
- Lightweight, easy installation & replacement.
- High consistency & good compatibility.
- Smart BMS inside.
- IP 65 waterproof Class.



Specification

Battery Model	NA30A12PRO
Cell type	Cylindrical cell (3V15Ah)
Connection mode	2P4S
Nominal Voltage (V)	12
Nominal Capacity (Ah)	30
Total Energy (Wh)	360
Internal Resistance (mΩ)	≤4
Voltage Range (V)	8 ~ 13.8
End of Discharge Voltage (V)	8
Charging Voltage Range (V)	13.4 ~ 13.8
Max. Charging Current (A)	30
Max. Discharging Current (A)	60
Operating Temperature Range	Charge: 0 ~ 60 °C Discharge: -30 ~ 60 °C
Protection	Over charge, Over discharge, Over temperature, Low Temperature, Over Current, Short circuit.
Cycle Life ¹	>4000 cycles
Designed Calendar Life	>10 Years
Bluetooth Function	Yes
Dimension (W*D*H, mm)	229*144*209
Weight (Kg)	5.5±3%
Operation Humidity	5~95% RH (No condensing)
IP Class	IP65
Parallel Connection	Yes, Max 16 Sets
Series Connection	Yes, Max 4 Sets
Cell Certification	IEC62619, UL1973, UN38.3, MSDS
Battery Certification	IEC62619, UN38.3, MSDS, UL1973, UL9540A

Notes:

1. 0.5C/0.5C, 25°C, 80% DOD to 70% of initial capacity.



BMS Parameter

Over-Charge Protection

Over-Charge Protection	3.45±0.05 V (For cell)
Over-Charge Protection Delay	1000±800 ms
Over-Charge Release	3.35±0.05 V (For cell)

Over-Discharge Protection

Over-Discharge Protection	2.00±0.05 V (For cell)
Over-Discharge Protection Delay	1000±800 ms
Over-Discharge Release	2.10±0.05 V (For cell)

Over Current Protection

Charge Over Current Protection	35±5 A
Charge Over-Current Protection Delay	1000±800 ms
Charge Over Current Protection Release	Disconnect charger or Discharge
Discharge Over Current Protection	65±5 A
Discharge Over Current Protection Delay	1000±800 ms
Discharge Over Current Protection Release	Disconnect load or Charge

Over Temperature Protection

Charge Low Temperature Protection	0±2 °C
Charge Low Temperature Protection Release	5±2 °C
Charge High Temperature Protection	60±2 °C
Charge High Temperature Protection Release	55±2 °C
Discharge High Temperature Protection	60±2 °C
Discharge High Temperature Protection Release	55±2 °C
BMS High Temperature Protection	90±2 °C
BMS High Temperature Protection Release	75±2 °C

Short Circuit Protection

Short Current Protection Delay Time	10~500 μs
Short Current Release Method	Disconnect load