

## **Advanced Battery 400Ah – User Manual**

### **Advanced Battery 400Ah Metadata**

Model: AB-400A

Category: batteries

Tags: batteries, AB-400A, Cirrus, Renewable Energy, Advanced Battery 400Ah

#### **1. Advanced Battery 400Ah Overview**

Engineered for heavy-duty applications with fast recharge capability.

#### **2. Advanced Battery 400Ah Intended Use**

Designed for residential and light commercial renewable-energy applications. Any other use may void the warranty and pose safety risks.

#### **3. Advanced Battery 400Ah Safety Information**

- a. Operate Li-ion batteries between 15°C and 30°C; follow NFPA 855.
- b. Maintain 40-60% state-of-charge for long-term storage.
- c. Place a class 'Li-ion' extinguisher within 3 m of the battery.

#### **4. Advanced Battery 400Ah Prerequisites**

- a. Read this manual in full before installation.
- b. Ensure local electrical codes and permits are satisfied.
- c. Have the following tools: multimeter, torque wrench, crimping tool, PPE.

#### **5. Advanced Battery 400Ah Installation Guide**

- a. Use UL 9540A-certified cabinets with integrated BMS.
- b. Provide 100 mm clearance between modules for ventilation.
- c. Connect rapid-shutdown device per NEC 706.

#### **6. Advanced Battery 400Ah Configuration & Operation**

Refer to the controller or inverter interface to set voltage and charging parameters. Adjust based on battery chemistry or site requirements.

#### **7. Advanced Battery 400Ah Maintenance Schedule**

- a. Run BMS diagnostics quarterly; replace modules below 80 % capacity.
- b. Torque lugs per spec (5-9 Nm).
- c. Calibrate temperature sensors annually.

#### **8. Advanced Battery 400Ah Troubleshooting**

- a. **No Output / Zero Power:** Check PV input voltage; verify connectors.
- b. **Low Power Output:** Inspect for shading, soiling, or loose wiring.



- c. **System Fault Code:** Consult controller/inverter fault table; reset after corrective action.

## 9. Technical Specifications

Specification	Value
Voltage	48V
Warranty	10 years

## 10. Regulatory & Standards

- a. UL 9540A
- b. NFPA 855
- c. IEC 62619

## 11. Advanced Battery 400Ah Warranty & Support

Warranty: 10 years

For assistance, contact Cirrus support: [support@cirrus.com](mailto:support@cirrus.com) or +1-800-CIRRUS-1.