

Deluxe Battery 300Ah – User Manual

Deluxe Battery 300Ah Metadata

Model: DB-300A

Category: batteries

Tags: batteries, DB-300A, Cirrus, Renewable Energy, Deluxe Battery 300Ah

1. Deluxe Battery 300Ah Overview

Robust lithium iron phosphate chemistry for extended cyclic life and safety.

2. Deluxe Battery 300Ah Intended Use

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

3. Deluxe Battery 300Ah 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. Deluxe Battery 300Ah 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. Deluxe Battery 300Ah 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. Deluxe Battery 300Ah Configuration & Operation

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

7. Deluxe Battery 300Ah 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. Deluxe Battery 300Ah 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. Deluxe Battery 300Ah Technical Specifications

Specification	Value
Voltage	48V
Dimensions	24 x 10 x 10 inches
Weight	80 lbs
Warranty	10 years
Operating Temperature	-4°F to 140°F
Capacity	300Ah

10. Regulatory & Standards

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

11. Deluxe Battery 300Ah Warranty & Support

Warranty: 10 years

For assistance, contact Cirrus support: support@cirrus.com or +1-800-CIRRUS-1.