



100AH 12V ADVANCED LITHIUM BATTERY

SMART, BLUETOOTH®-ENABLED, HIGH-PERFORMANCE SOLAR POWER STORAGE



Model #: GP-ADV-LiFePO4-100

FEATURES:

- Bluetooth®-enabled, smart features
- Can be used with lithium compatible Go Power! solar, inverters and charge controllers
- Built-in smart DC heater
- Max Power Capacity; carries almost double the power of regular batteries
- Lightweight
- UKCA Certified
- Quick-charging
- IP68 waterproof (should not be submerged)
- Internal Battery Management System (BMS) protects against:
 - Over and under voltage
 - Over and under temperature
 - Charge and discharge over current
 - Short circuit
- **10-year warranty**

SPECIFICATIONS

| | |
|--------------------------------------|---|
| Technology | Lithium Iron Phosphate |
| Nominal Voltage | 12.8 V |
| Fully Charged Voltage (FC) | 14.6V |
| Fully Discharged Voltage (FD) | 9.2V |
| Capacity | 100Ah |
| Recommended Discharge Current | 100A |
| Battery Discharge Terminated Voltage | 9.2V |
| Battery Charge Voltage | 14.2V |
| Maximum Charge Current | 100A |
| Discharge Cut-off Voltage | 8.4 V |
| Recommended Charge Current | 20A - Battery pack at 0°C~5°C & 45°C ~ 55°C |
| | 50A - Battery pack at 5°C ~ 15°C |
| | 100A - Battery pack at 15°C ~ 45°C |
| Standard Charge Method | 0.2C CC (constant current) charge to FC, then CV (constant voltage FC) charge till charge current decline to $\leq 0.05C$ |
| Inner Resistance | $\leq 10 \text{ m}\Omega$ |
| Certifications | ETL, CE, UKCA, UN38.3, UL 2054 |
| Operating Temperature | Charge: 32°F (0°C) to 113°F (45°C) |
| | Discharge: -4°F (-20°C) to 131°F (55°C) |
| Storage Temperature ¹ | 1 month: 113°F (45°C) to 140°F (60°C) Max 80% RH |
| | 3 months: 77°F (25°C) to 113°F (45°C) Max 80% RH |
| | 18 months: 68°F (20°C) to 7°F (25°C) Max 80% RH |
| Humidity | Operating: 5% to 90 % RH Storage: 45% to 85% RH |
| BMS Leakage Current | xmA |

¹ Rated Capacity tested at 77°F (25 ±5 °C)

² Maximum storage time before recharging is 6 months

³ Cycle Life tested at 77°F (25°C)

Specifications may be subject to change. Product may not be exactly as shown.
Specifications subject to local environmental conditions.



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MECHANICAL

| | |
|-----------|--|
| Length | 12.4 in / 315 mm |
| Width | 6.9 in / 175 mm |
| Height | 8.7 in / 221 mm |
| Weight | 28.7 lbs / 13 kg |
| Terminals | P+/P- : M8 Torque: 10.8 - 12.7 Nm (95.59 - 112.40 in*lbs) |
| Carrying | Recessed Handles |

MATERIALS

| | |
|----------------|-----|
| Case and Cover | ABS |
|----------------|-----|

UNIT DIMENSIONS



PLEASE NOTE

Lithium batteries ship under Class 9 Dangerous Goods PI 965 Section IA, which requires special carrier instructions. Please contact your carrier company to determine their requirements for shipping.

MSDS Sheets are available upon request.