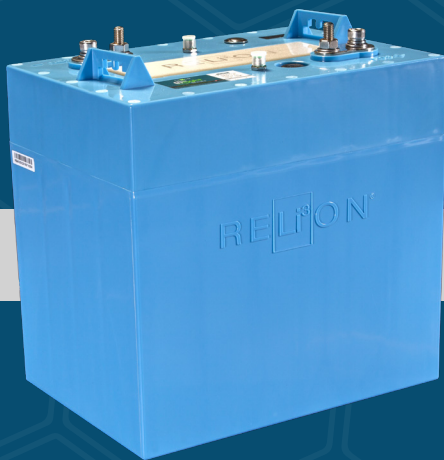


RELi³ON[®]

insight[™] SERIES



LiFePO4

INTELLIGENT FEATURES

Unlimited Parallel Connections

- Intelligent battery-to-battery balancing
- Additive continuous and peak currents
- Scale as needed

Low Temperature Operation

- Can charge at temperatures down to -20°C (-4°F)

Heatsink Design

- Strategically located
- Unique passive cooling
- Prevents over-heating of critical components

Dual M8 Terminals (insert and stud)

- Ample space for connections

LED Indicator

- Provides State of Charge (SOC)

Unique BMS Design

- Microcontroller-based design
- Intuitive software
- Solid State Switch for ultra-fast response times
- High-resolution internal measurements
- Non-volatile historical data
- CANbus communication
- Sleep mode capability

RELi³ON[®] | DATA SHEET

MODEL

| | |
|-------------|---------------|
| Part Number | 12V120-GC2-LT |
|-------------|---------------|

FUNCTIONAL SPECIFICATIONS

| | |
|---------------------------|---------------------|
| Nominal Voltage | 12.8V |
| Cell Chemistry | LiFePO4 |
| Cell Type | Prismatic |
| Ampere-hour Capacity | 120 Ah |
| Watt-hour Capacity | 1.536kWh |
| Specific Energy | 128Wh/kg |
| Charge Efficiency | 99% |
| Impedance (50% SOC, 1kHz) | <100mΩ |
| Cycles @ 80% DOD | >3500 |
| Parallel Capable | Yes (unlimited) |
| Series Capable | No (max 12V system) |

MECHANICAL SPECIFICATIONS

| | |
|----------------------------|--|
| BCI Size | GC2 / GC8 |
| Dimensions (LxDxH) | 10.2 x 7.1 x 10.9 in (260 x 180 x 276 mm) |
| Weight | 34.4 lbs (15.6 kg) |
| Case Material | ABS |
| Stud Terminal | M8 X 1.25 - 20 |
| Insert Terminal | M8 X 1.25 - 20 |
| Torque | 79.7-88.5 in.-lbs. 6.6-7.4 ft.-lbs. 9-10 N-m |
| Handles | Molded |
| Ingress Protection Marking | IP67 |
| Case Flame Rating | UL94 V-0 |

DISCHARGE SPECIFICATIONS

| | |
|---|----------------------|
| Continuous Discharge Current | 160A |
| Peak Discharge Current - 1 | 175A - 5 min |
| Peak Discharge Current - 2 | 250A - 2 min |
| Peak Discharge Current - 3 | 350A - 15 sec |
| Peak Discharge Current - 4 | 400A - 5 sec |
| Short Circuit Protection | 3000A - 300 μsec |
| Protection Recover | Automatic |
| Low Voltage Disconnect | 10V - 5 sec (2.5vpc) |
| Low Voltage Reconnect | Automatic |
| Self-Discharge per Month @ 25°C in OFF mode | 2.80% |

CHARGE SPECIFICATIONS

| | |
|-------------------------------|-----------------------|
| Recommended Charging Current | 10-60A |
| Disconnect Charge Current - 1 | 100A |
| Disconnect Charge Current - 2 | 120A - 0.5 sec |
| Recommended Charge Voltage | 14.4-14.6V |
| Float Voltage | 13.8V |
| High Voltage Disconnect | 14.8V -4 sec (3.7vpc) |
| High Voltage Reconnect | Automatic |
| Temperature Compensation | None |
| Heating Element Power | 50W |
| Heating Rate | 5°C/hr |



- 1. Dual M8 Terminals (insert & stud)
- 2. CANbus Input
- 3. CANbus Output
- 4. Power Button
- 5. SOC/Status LEDs
- 6. Heatsink
- 7. Vent
- 8. Lifting Brackets

ENVIRONMENTAL SPECIFICATIONS

| | |
|-----------------------|----------------------------------|
| Charge Temperature | 32°F to 113°F (0°C to 45°C) |
| Discharge Temperature | -4°F to 149°F (-20°C to 65°C) |
| Operating Humidity | <90% RH |
| Storage Temperature | 50°F to 95°F (10°C to 35°C) |
| Storage Humidity | 25 to 85% RH |

CERTIFICATIONS

| |
|--|
| UL1973 (Battery Pack) File Number: PENDING |
| CE (Battery Pack) |
| IEC 62133 (Battery Pack) PENDING |
| UN38.3 (Battery Pack) |

SHIPPING CLASSIFICATION

| |
|------------------|
| UN 3480, Class 9 |
|------------------|

APPLICATIONS

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|-----------------------|
| Recreational Vehicles |
| Marine |

COMPATIBLE ACCESSORIES

| |
|-----------------------------|
| InSight Remote Button |
| InSight Fuel Gauge (CANbus) |

