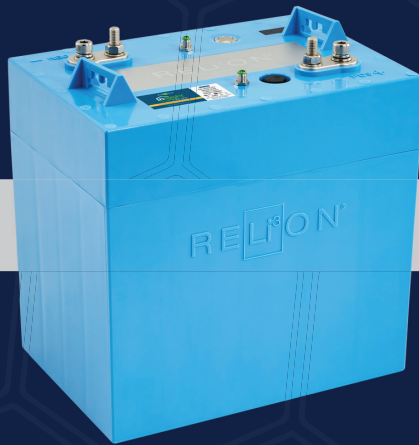


RELi<sup>3</sup>ON®

insight  
SERIES®



LiFePO4

## INTELLIGENT FEATURES

### Smart Parallel Connections

- Intelligent battery-to-battery balancing
- Self latching with touch safe chargers
- Easy battery swap installation
- Scale up to 10 batteries in parallel

### Low Temperature Operation

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

### Heatsink Design

- Strategically located
- Unique passive cooling

### Dual M8 Terminals (Insert and Stud)

- Ample space for connections

### LED Indicator

- Provides State of Charge (SOC)

### Unique BMS Design

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

## MODEL

Part Number	24V060-1-GC2-LT
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## FUNCTIONAL SPECIFICATIONS

Nominal Voltage	25.6
Cell Chemistry	LiFePO4
Cell Type	Prismatic
Ampere-hour Capacity	60Ah
Watt-hour Capacity	1536Wh
Specific Energy	128Wh/kg
Impedance (50% SOC, 1kHz)	<100mΩ
Cycles @ 80% DOD	>3500
Parallel Capable	Yes (up to 10)
Series Capable	No

## MECHANICAL SPECIFICATIONS

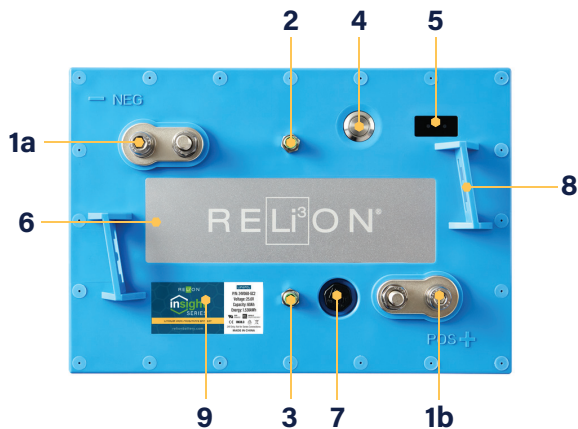
BCI Size	GC2 / GC8
Dimensions (LxWxH)	260 x 180 x 276 mm (10.2 x 7.1 x 10.9 in)
Weight	15.6 kg (34.4 lbs)
Case Material	ABS
Stud / Insert Terminal	M8 X 1.25 - 20
Ingress Protection Marking	IP67
Case Flame Rating	UL94 V-0

## DISCHARGE SPECIFICATIONS

Recommended Continuous Discharge Current	120A (1C)
Maximum Continuous Discharge Current	200A
Peak Over Current	200A<I <sub>batt</sub> <300A, 10s 300A<I <sub>batt</sub> <360A, 5s 360A<I <sub>batt</sub> <500A, 2s I <sub>batt</sub> >500A, 0.5s
Short-Circuit Protection	>500A
Short-Circuit Reset	Automatic
Discharge Cut Off Pulse Recovery Operation	Automatically above 2.9V/cell (23.2V)
Low Voltage Protection	2.8V/cell (22.4V) ~6 months @ 25°C (60°F)
Permanent Off Voltage	1.8V/cell (14.4V)

## CHARGE SPECIFICATIONS

Recommended Charge Current	30A (0.5C)
Continuous Charge Current	≤ 60A (1C)
Disconnect Charge Current	I <sub>batt</sub> >60A, 5s I <sub>batt</sub> >120A, 0.5s
Peak Charge Voltage	28.5V
Float Voltage	27V
Over-Voltage Protection	3.65V/cell 4s (29.2V)
Over-Voltage Reset	Automatically at 3.6V/cell (28.8V)
Heating Rate	20°C/hr (35°F/hr)



- 1a. Negative Pole Dual M8 Terminals (insert & stud)
- 1b. Positive Pole Dual M8 Terminals (insert & stud)
- 2. CANbus Input
- 3. CANbus Output
- 4. Power Button
- 5. SOC/Status LEDs
- 6. Heatsink
- 7. Vent
- 8. GC2 Standard Handles
- 9. Battery Label

### ENVIRONMENTAL SPECIFICATIONS

Charge Under Temperature	-20°C (-4°F) for 2s. Self-heating function will be activated below 0°C. Self-reset function.
Charge Over Temperature	55°C (131°F) for 2s Self-reset function.
Discharge Under Temperature	-20°C (-4°F) for 2s Self-reset function.
Discharge Over Temperature	55°C (131°F) for 2s Self-reset function.
Operating Humidity Range	10% to 95% RH non-condensing
Optimal Storage Temperature	10°C to 35°C (50°F to 95°F)
Optimal Storage Humidity	15% to 90% RH

### CERTIFICATIONS

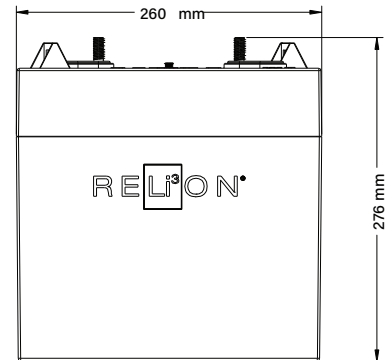
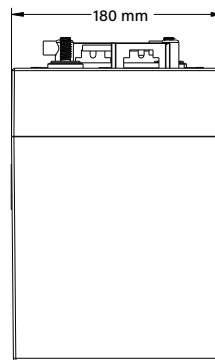
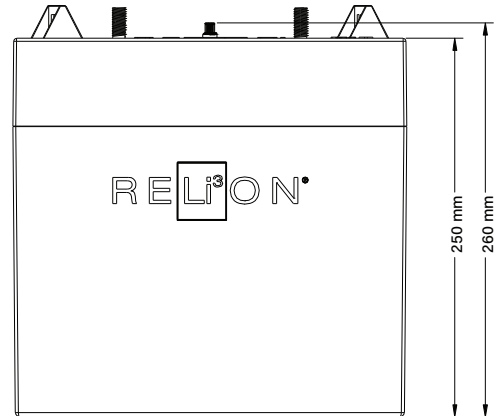
UL2580 pending (Cell)
UL2271 pending (Battery Pack)
CE (Battery Pack)
IEC 62133-2 :2017 (Lithium Batteries)

### SHIPPING CLASSIFICATION

UN3480, Class 9
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### APPLICATIONS

Floor Machines
Pallet Jacks
Aerial Work Platforms
Utility Vehicles



### COMPATIBLE ACCESSORIES

InSight 24V and 48V Fuel Gauge - BI-3140R-2448
InSight Remote Power Switch - RS-GC2-03 / RS-GC2-06 / RS-GC2-10
CAN Termination Resistor Assembly - CAN-TR
More on our website <a href="http://www.relionbattery.com">www.relionbattery.com</a>