

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 operations 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

MODEL

Part Number	24V060-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	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 24V system)

MECHANICAL SPECIFICATIONS

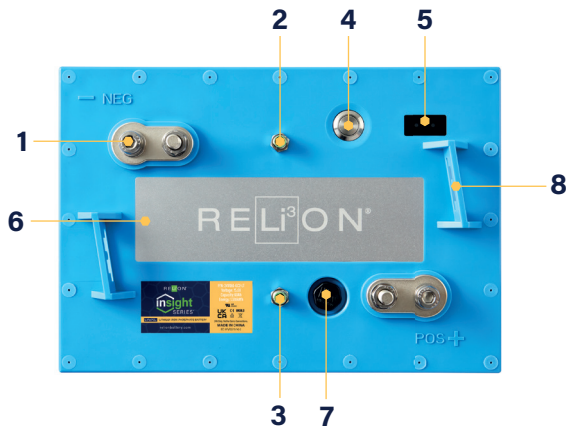
BCI Size	GC2 / GC8
Dimensions (LxWxH)	10.2 x 7.1 x 10.9 in (260 x 180 x 276 mm)
Weight	34.4 lbs (15.6 kg)
Case Material	ABS
Stud Terminal	M8 X 1.25 - 20
Insert Terminal	M8 X 1.25 - 20
Torque	79.7-88.5 in-lbs. 6.6 - 7.4 ft-lbs. 9-10 N-m
Handles	Molded
Ingress Protection Marking	IP67
Case Flame Rating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

DISCHARGE SPECIFICATIONS

Continuous Discharge Current	100A
Peak Discharge Current	240A - 15 sec
Peak Discharge Current	440A - 30 msec
Short Circuit Protection	880A - 610 μsec
Protection Recover	Automatic
Low Voltage Disconnect	20V - 5 sec (2.5vpc)
Low Voltage Reconnect	Automatic
Self-Discharge per Month @ 25°C in OFF mode	2.80%

CHARGE SPECIFICATIONS

Continuous Charge Current	≤ 60A
Disconnect Charge Current	65A - 5 sec
Recommended Charge Voltage	27.6V
Float Voltage	27.2V
High Voltage Disconnect	29.6V (3.7vpc) (4 sec)
High Voltage Reconnect	Automatic
Temperature Compensation	None
Heating Element Nominal Power	135W
Heating Rate (nominal)	20°C/hr (35°F/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 131°F (0°C to 55°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

UL2580 (Cell) File Number: MH63797
UL2271 (Battery Pack) File Number: MH64262
CE (Battery Pack)
IEC 62133 (Battery Pack)
UN38.3 (Battery Pack)

SHIPPING CLASSIFICATION

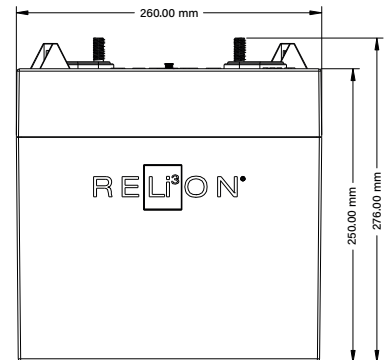
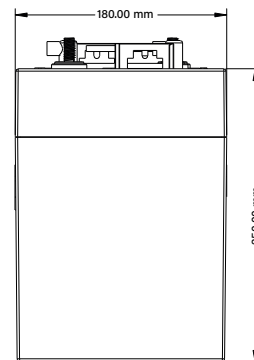
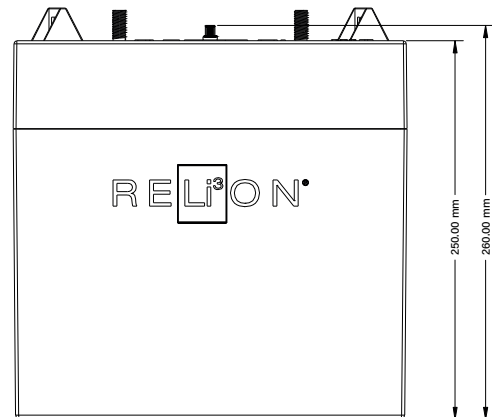
UN 3480, Class 9

APPLICATIONS

Floor Machines
Pallet Jacks
Aerial Work Platforms
Utility Vehicles

COMPATIBLE ACCESSORIES

InSight Remote Button
InSight Fuel Gauge (CANbus)



UN38.3

