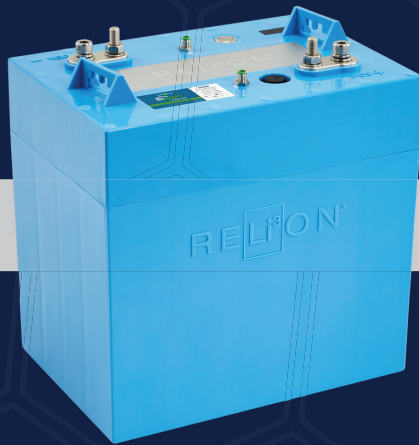


RELi³ON®

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

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	48V030-GC2
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FUNCTIONAL SPECIFICATIONS

Nominal Voltage	51.2V
Cell Chemistry	LiFePO4
Cell Type	Prismatic
Ampere-hour Capacity	30Ah
Watt-hour Capacity	1536Wh
Specific Energy	128Wh/kg
Impedance (50% SOC, 1kHz)	<150mΩ
Cycles @ 80% DOD	>3500
Parallel Capable	Yes (up to 10)
Series Capable	No

MECHANICAL SPECIFICATIONS

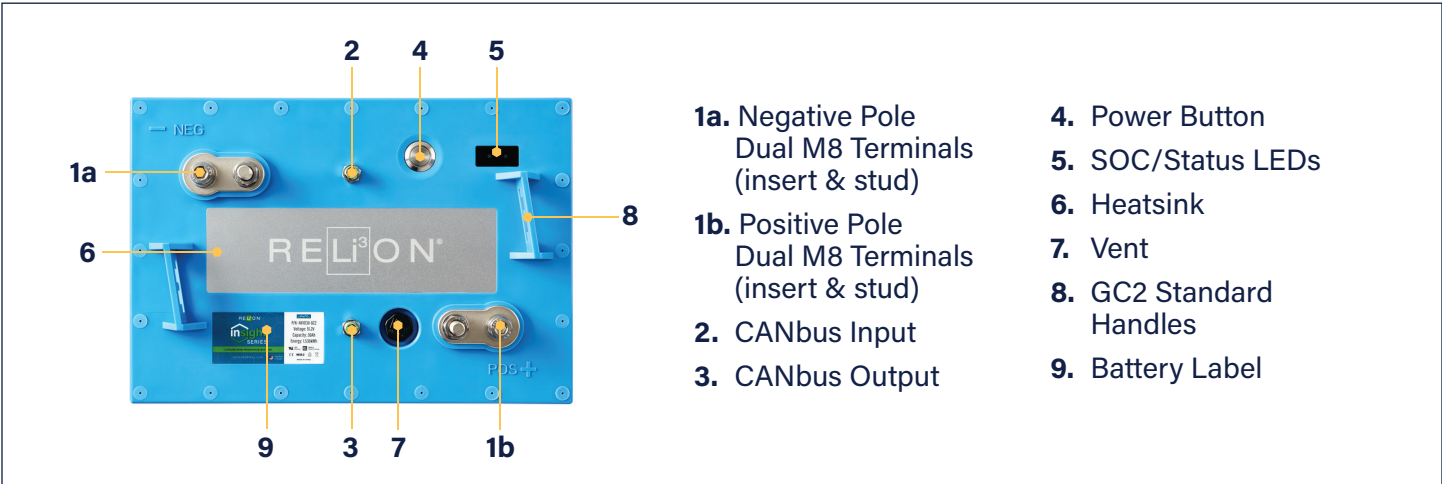
BCI Size	GC2 / GC8
Dimensions (LxWxH)	260 x 180 x 276 mm (10.2 x 7.1 x 10.9 in)
Weight	15.6 kg (34.4 lbs)
Case Material	ABS
Stud / Insert Terminal	M8 X 1.25 - 20
Ingress Protection Marking	IP67
Case Flame Rating	UL94 V-0

DISCHARGE SPECIFICATIONS

Recommended Continuous Discharge Current	45A (1.5C)
Maximum Continuous Discharge Current	100A
Peak Over Current	100A<I _{batt} <150A, 10s 150A<I _{batt} <180A, 5s 180A<I _{batt} <250A, 2s I _{batt} >250A, 0.5s
Short-Circuit Protection	>350A
Short-Circuit Reset	Automatic
Discharge Cut Off Pulse Recovery Operation	Automatically above 2.9V/cell (46.4V)
Low Voltage Protection	2.8V/cell (44.8V) ~6 months @ 25°C (60°F)
Permanent Off Voltage	1.8V/cell (28.8V)

CHARGE SPECIFICATIONS

Recommended Charge Current	15A (0.5C)
Continuous Charge Current	≤ 30A (1C)
Disconnect Charge Current	I _{batt} >30A, 5s I _{batt} >50A, 0.5s
Peak Charge Voltage	57V
Float Voltage	54V
Over-Voltage Protection	3.65V/cell 4s (58.4V)
Over-Voltage Reset	Automatically at 3.6V/cell (57.6V)

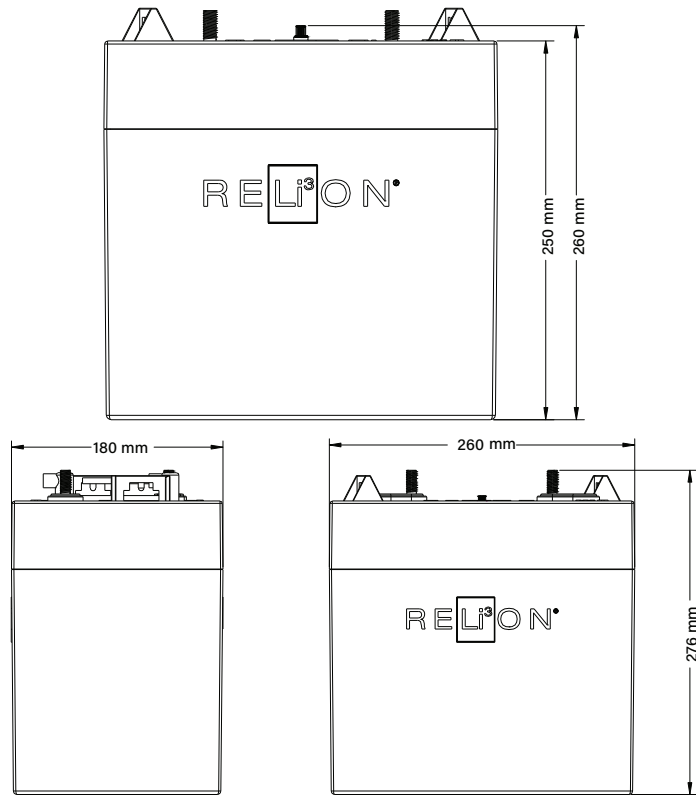


ENVIRONMENTAL SPECIFICATIONS	
Charge Under Temperature	0°C (32°F) for 2s Self-reset function.
Charge Over Temperature	55°C (131°F) for 2s Self-reset function.
Discharge Under Temperature	-20°C (-4°F) for 2s Self-reset function.
Discharge Over Temperature	55°C (131°F) for 2s Self-reset function.
Operating 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	

APPLICATIONS	
Golf Cars	
Personal Transportation Vehicles (PTVs)	
Utility Vehicles	
Low Speed Vehicles (LSVs)	
Automated Guided Vehicles (AGVs)	
Solar	



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 www.relionbattery.com	