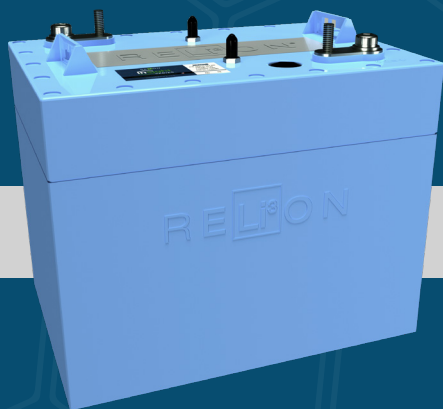


insight SERIES



LiFePO4

INTELLIGENT FEATURES

Up to 128 Parallel Connections

- Intelligent battery-to-battery balancing
- Additive continuous and peak currents
- No additional hardware needed

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
- Innovative protection algorithms
- MOSFET-based for ultra-fast response times
- High-resolution internal measurements
- Ultra-low self-consumption
- Non-volatile historical data
- CANbus communication

MODEL

Part Number	48V030-GC2-001
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FUNCTIONAL SPECIFICATIONS

Nominal Voltage	51.2V
Cell Chemistry	LiFePO4
Cell Type	Prismatic
Ampere-hour Capacity	30Ah
Watt-hour Capacity	1.536kWh
Specific Energy	128Wh/kg
Charge Efficiency	99%
Impedance (50% SOC, 1kHz)	<100mΩ
Cycles @ 80% DOD	>6000

MECHANICAL SPECIFICATIONS

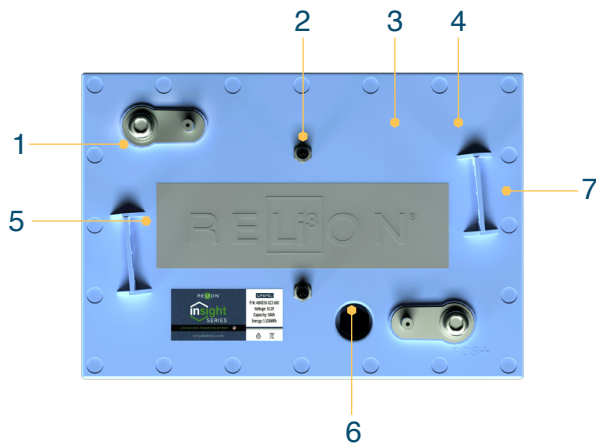
BCI Size	GC2
Dimensions (LxWxH)	260 x 180 x 276 mm
Weight	34.4 lbs (15.6 kg)
Case Material	ABS
Stud Terminal	M8 X 1.25 - 20
Insert Terminal	M8 X 1.25 - 20
Handles	Molded
Ingress Protection Marking	IP67
Case Flame Rating	UL94 V-0

DISCHARGE SPECIFICATIONS

Continuous Discharge Current	100A
Discharge Current (30-sec)	125A
Max Discharge Current (10-sec)	150A
Short Circuit Protection	500A
Low Voltage Disconnect	40V (5s)
Low Voltage Reconnect	Reset & Charge
Self-Discharge per Month @ 25°C	Idle 1.2%, Sleep 0.12%

CHARGE SPECIFICATIONS

Continuous Charge Current	50A
Max Charge Voltage	58.4V
Recommended Charge Voltage	56V
Float Voltage	55.2V
High Voltage Disconnect	60.8V (4s)
High Voltage Reconnect	Automatic
Temperature Compensation	None



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

ENVIRONMENTAL SPECIFICATIONS

*Charge Temperature	-20°C to 45°C
Discharge Temperature	-20°C to +60°C
Operating Humidity	<90% RH
Storage Temperature	-40°C to +60°C
Storage Humidity	25 to 85% RH

*For charging below 0°C see Charging Instructions

APPLICATIONS

Traction and Stationary Including:
 Golf & Utility Vehicles
 Floor Machines
 AWP
 Marine
 RV
 Solar
 Back-Up

SHIPPING CERTIFICATIONS

UN 3480, Class 9

