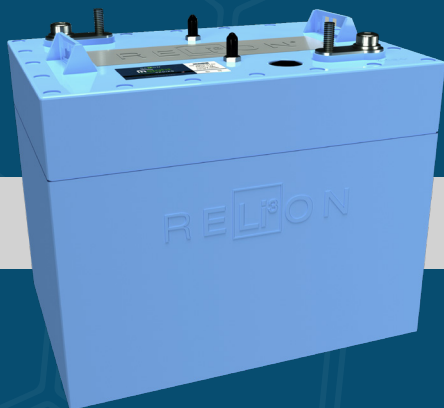


## insight<sup>TM</sup> SERIES



LiFePO4

### INTELLIGENT FEATURES

#### Up to 10 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)	<150mΩ
Cycles @ 80% DOD	>6000

### MECHANICAL SPECIFICATIONS

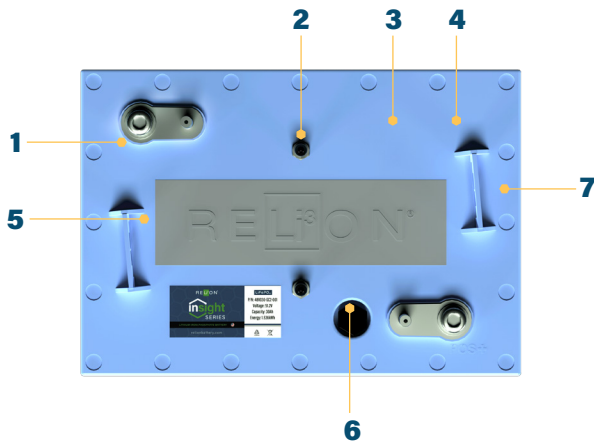
BCI Size	GC2
Dimensions (LxWxH)	10.2 x 7.1 x 10.9 in (260 x 180 x 276 mm)
Weight	34.4 lbs (15.6 kg)
Case Material	ABS
Stud Terminal	M8 X 1.25 - 20
Insert Terminal	M8 X 1.25 - 20
Torque	79.7-88.5 in-lbs 9-10 N-m
Handles	Molded
Ingress Protection Marking	IP67
Case Flame Rating	UL94 V-0

### DISCHARGE SPECIFICATIONS

Continuous Discharge Current	100A
Peak Discharge Current	150A - 15 sec
Short Circuit Protection	580A - 366 μsec
Low Voltage Disconnect	40V - 5 sec
Low Voltage Reconnect	Automatic
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	59.2V
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	32°F to 155°F (0°C to 55°C)
Discharge Temperature	-4°F to 149°F (-20°C to 65°C)
Operating Humidity	<90% RH
Storage Temperature	-4°F to 95°F (20°C to 35°C)
Storage Humidity	25 to 85% RH

**CERTIFICATIONS PENDING**

UL2580 (Cell)
UL2271 (Battery Pack)
CE (Battery Pack)
IEC 62133 (Battery Pack)
UN 38.3 (Battery Pack)

**SHIPPING CLASSIFICATION**

UN 3480, Class 9
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**APPLICATIONS**

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

