





LiFePO4

INTELLIGENT FEATURES

Unlimited Parallel Connections

- Intelligent battery-to-battery balancing
- Additive continuous and peak currents
- Scale as 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
- Intuitive software
- Solid State Switch for ultra-fast response times
- High-resolution internal measurements
- Non-volatile historical data
- CANbus communication
- Sleep mode capability



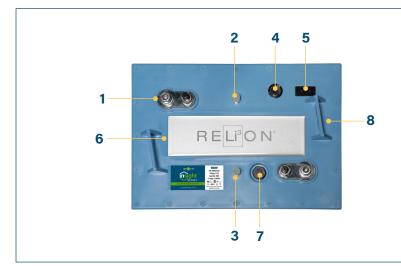
MODEL	
Part Number	48V030-GC2

FUNCTIONAL SPECIFICATIONS		
Nominal Voltage	51.2V	
Cell Chemistry	LiFePO4	
Cell Type	Prismatic	
Ampere-hour Capacity	30Ah	
Watthour Capacity	1.536kWh	
Specific Energy	128Wh/kg	
Charge Efficiency	99%	
Impedance (50% SOC, 1kHz)	<150mΩ	
Cycles @ 80% DOD	>3500	
Parallel Capable	Yes (unlimited)	
Series Capable	No (max 48V 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	200A - 15 sec	
Peak Discharge Current	400A - 30 msec	
Short Circuit Protection	560A - 366 µsec	
Protection Recover	Automatic	
Low Voltage Disconnect	40V - 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	55.2V max
Float Voltage	54.4V
High Voltage Disconnect	59.2V (3.7vpc) (4 sec)
High Voltage Reconnect	Automatic
Temperature Compensation	None



- 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	-22°F to 149°F (-30°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

UL2580 (Cell) File Number: MH63797

UL2271 (Battery Pack) File Number: MH64262

CE (Battery Pack)

IEC 62133 (Battery Pack)

UN38.3 (Battery Pack)

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 Remote Button

InSight Fuel Gauge (CANbus)

