





LiFeP04

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



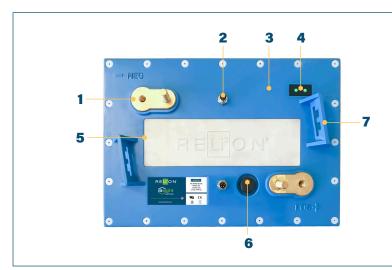
MODEL	
Part Number	48V030-GC2-001

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)	<100mΩ	
Cycles @ 80% DOD	>6000	

MECHANICAL SPECIFICATIONS	
BCI Size	GC2
Dimensions (LxWxH)	260 x 180 x 276 mm
Weight	26.4 lbs (12 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

CERTIFICATIONS	
UL2580 (Cell)	
UL2271 (Battery Pack)	
CE (Battery Pack)	
UN 38.3 (Battery Pack)	

APPLICATIONS

Traction and Stationary Including:

Golf & Utility Vehicles

Floor Machines

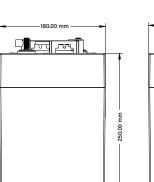
AWP

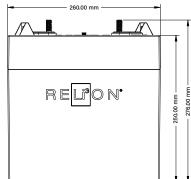
Marine

RV

Solar

Back-Up





SHIPPING CERTIFICATIONS

UN 3480, Class 9







