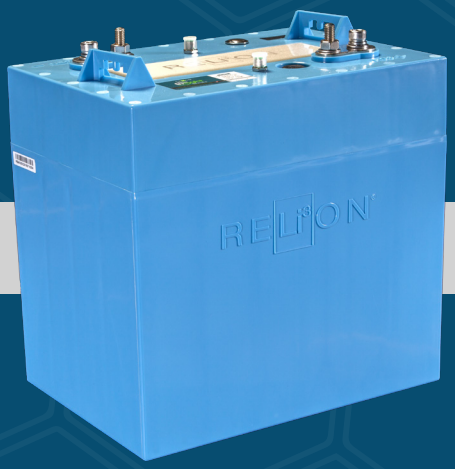
RELiON®

insight™ SERIES



LiFePO4

INTELLIGENT FEATURES

Up to 10 Parallel Connections
- Intelligent battery-to-battery balancing
- Additive continuous and peak currents
- Scalable capacity up to 300Ah

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
- Ultra-low self-consumption
- Non-volatile historical data
- CANbus communication

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	>6000

MECHANICAL SPECIFICATIONS	
BCI Size	GC2
Dimmensions (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	200A - 15 sec
Peak Discharge Current	400A - 30 msec
Short Circuit Protection	580A - 366 µsec
Protection Recover	Automatic
Low Voltage Disconnect	40V - 5 sec
Low Voltage Reconnect	Automatic
Self-Discharge per Month @ 25°C	2.80%

CHARGE SPECIFICATIONS	
Continuous Charge Current	25A - 62A
Disconnect Charge Current	65A - 5 sec
Recommended Charge Voltage	57.6V - 58.4V
Float Voltage	55.2V - 4 sec
High Voltage Disconnect	59.2V - 4sec
High Voltage Reconnect	Automatic
Temperature Compensation	None

1. Dual M8 Terminals (insert & stud)
2. CANbus Input
3. CANbus Output
4. Wake-Up 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	-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

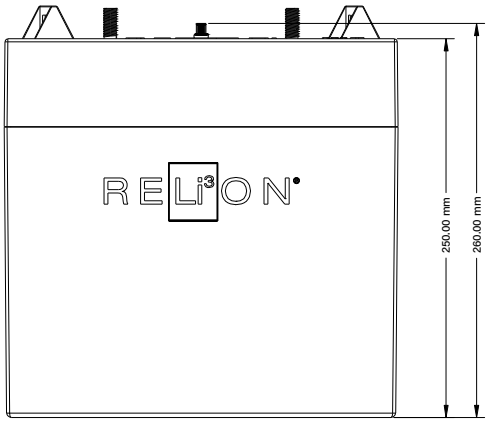
UL2580 (Cell) File Number: MH63797
UL2271 (Battery Pack) *Pending*
CE (Battery Pack)
IEC 62133 (Battery Pack)
UN38.3 (Battery Pack)

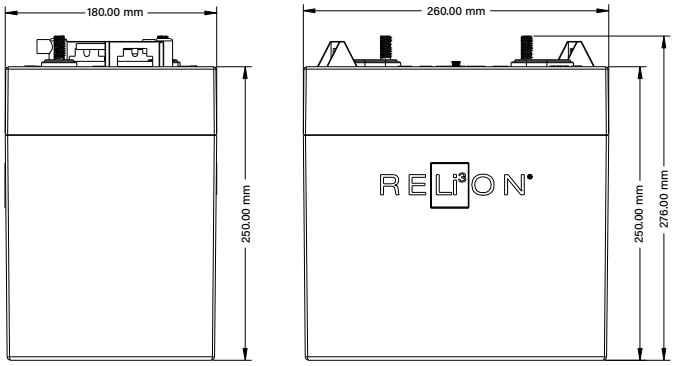
SHIPPING CLASSIFICATION

UN 3480, Class 9

APPLICATIONS

Golf Cars
Utility Vehicles
LSVs
AGVs
Solar





UN38.3 CE 12 Lithium

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