48V 110Ah Battery

Constructed using the latest lithium iron phosphate cells. These prismatic cells are the highest quality in a metal hard case. The battery is designed and developed in Australia and has an inbuilt Battery Management System (BMS).

At just under 40 kg, the LBS-48110-S15-CB80 is a high capacity 48V battery, perfect for electric vehicles where its power, capacity, and light weight add to the the performance of the vehicles.

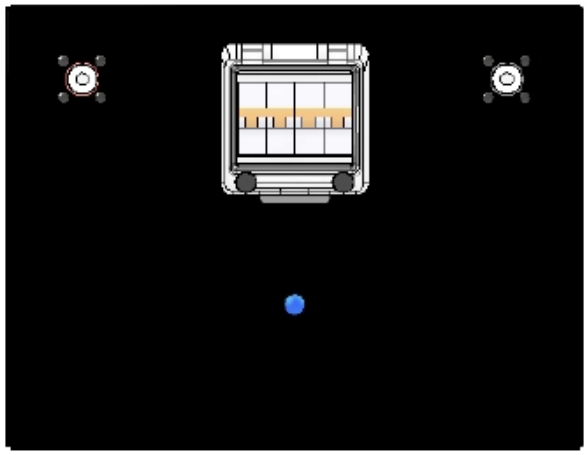
External circuit breakers mean that the battery can be turned off for installation, storage, maintenance or other reasons. The battery has high amperage M8 threded terminals for robust electrical connections to the loads and chargers.

The strong aluminium outer enclosure delivers a safe, lightweight and powerful unit which is the perfect power source for your 48V systems.

SPECIFICATIONS

	LBS-48110-S15-CB80
Chemistry	$LiFePO_4$
Nominal Voltage	48.0 V
Nominal Capacity	110 Ah
Nominal Energy	5.3 kWh
Usable Energy	5 kWh
Input Charge Voltage	51.8 V – 54.8V 52.5 V recommended
100% SoC Voltage	51.8V
Low Voltage cut-off	40.0 V approx.
Charge Current	100 A recommended 110 A Max.
Discharge Current	110 A max cont. 240 A surge
Operating Temp.	See overleaf
Weight	39.5 kg
Packaged Weight	40.0 kg approx.
Life at 80% DoD	2000 cycles
Life at 50% DoD	5000 cycles
Parallel Capable	Yes
Series Capable	No
Manufacture in	Australia
Size L	360 mm
D	277 mm
H_1	303 mm
H_2	333 mm (inc. terminals/handles)





FEATURES

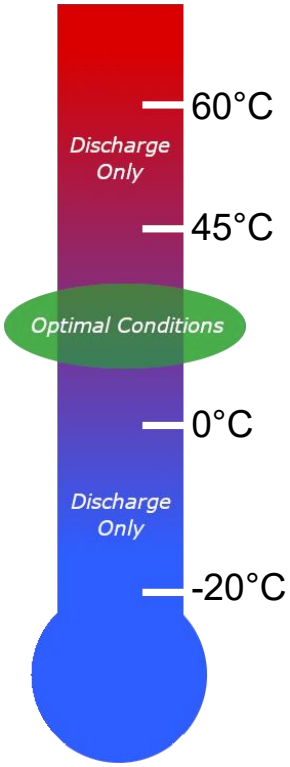
- ✓ Strong, compact aluminium enclosure
- ✓ Internal BMS
- ✓ Over/Under voltage protection
- ✓ Overcurrent protection
- ✓ Short circuit protection
- ✓ M8 Threaded Hole Terminals
- ✓ Circuit Breakers (Positive & Negative)
- ✓ Designed and assembled in Australia
- ✓ Warranty: 10 years (conditions apply)
- ✓ Certifications:
  - Battery: AS IEC 62619:2023, UN38.3, AS/NZS 62368.1:2022
  - Cell: UL 1642, UL 1973:2022, IEC 62619:2017

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LITHIUM BATTERY SYSTEMS
Powering Freedom™

48V 110Ah Battery

TEMPERATURE NOTICE



At temperatures above 60°C, the battery must **NOT** be **operated** (charge or loads). Please move the battery into a cooler environment.

At temperatures above 45°C, the battery must **NOT** be **charged**. Battery lifespan is reduced in these conditions.

Maintain your battery within this range for optimum battery lifespan and performance.

At temperatures below 0°C, the battery must **NOT** be **charged**. Battery performance is reduced in these conditions.

At temperatures below -20°C, the battery must **NOT** be **operated** (charge or loads). Please move the battery into a warmer environment.

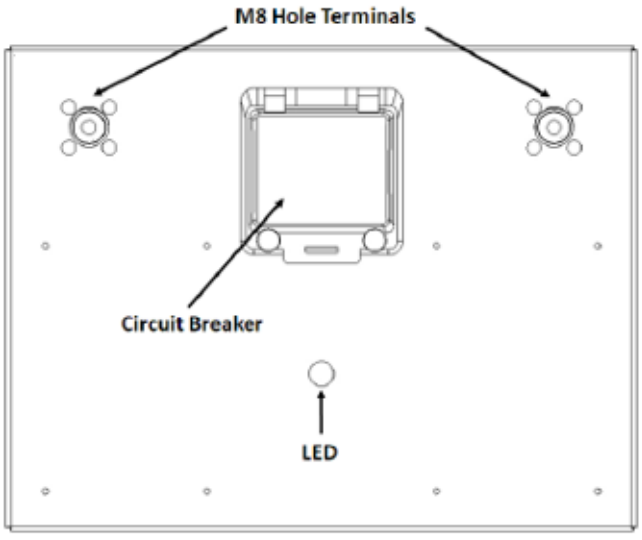
OPTIONAL EXTRAS

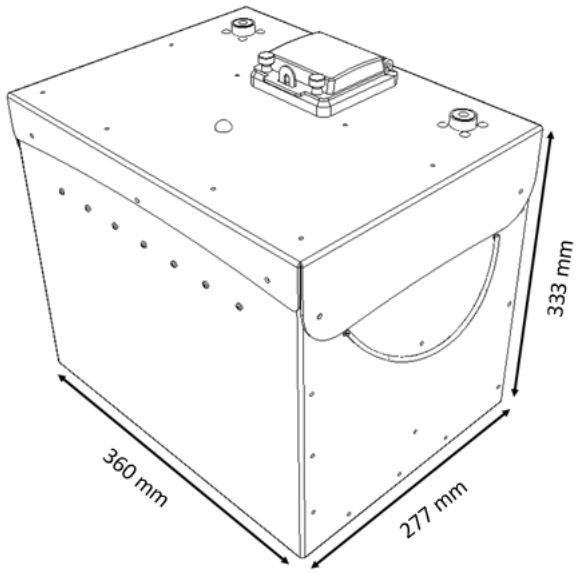
- Cable connection kit
- Monitoring kit

INCLUSIONS

Mounting bracket kit

WIREFRAME DIAGRAM





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