



INTELLI-GRID 12V LiFePO<sub>4</sub>

# 100Ah LITHIUM BATTERY



## WARNING

- Do not charge beyond 14.6VDC continuously over 24 hours, or using a charger with automatic desulfation.
- Do not short-circuit or reverse polarity.
- Do not disassemble, deform or modify battery.
- Store in a cool, dry and well-ventilated area.
- Charge battery at least every 6 months or when the voltage drops below 12.8VDC.
- Ensure battery is fully discharged before proper disposal.



RECYCLE

P/No. LB100-HD

## FEATURES

- 150Amp high discharge current, OK for powering up to 2000W inverters.
- Built in current shunt to provide accurate State of Charge (SOC), so there is no need to buy an additional current shunt.
- Top-mounted battery indicator.
- Battery switch (remote and local) to isolate the system in storage.
- Communication ports to talk to Intelli-Grid systems, displays/monitors or additional batteries.
- Lithium iron phosphate technology gives the advantage of high specific energy, long cycle life, high safety, low self-discharge and low weight (11kg).
- Mounting feet for easy installation.
- Built-in safety features including overvoltage, undervoltage, overcurrent, high/low temperature and short circuit protection.

## OPTIONAL REMOTE BATTERY MONITOR (SOLD SEPARATELY, P/NO. LBM-BT)

- Unlock your Projecta lithium battery's full potential.
- Monitor state of charge (SOC%) on LCD display.
- Turn battery on/off remotely, handy for inverter applications.
- Alarm and fault indication.
- Bluetooth monitoring and control via smart phone.
- Simply connect to the battery, no extra current shunts required.
- Additional functionality and monitoring when used in conjunction with other INTELLI-RV/INTELLI-GRID components.



LBM-BT Lithium Battery Monitor

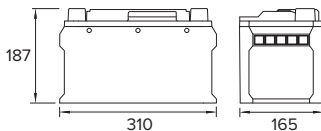


## CONNECTING IN SERIES OR PARALLEL

- Ensure all batteries are fully charged before connecting in series or parallel.
- LB100-HD can be connected in series up to 4 batteries to create a 48V 100Ah setup, or in parallel up to 4 batteries to create a 12V 400Ah setup.
- When connecting in parallel the discharge current can be added but a discharge ratio of 0.75 needs to be applied to give you the true continuous discharge current. For example 2 x LB100-HD in parallel will be  $2 \times 150\text{Amp} \times 0.75 = 225\text{Amps}$  continuous discharge current. So for a 3000Watt inverter it would be ideal to use 3 x LB100-HD giving you 338Amps continuous.

## SPECIFICATIONS

PART NO.	LB100-HD
NOMINAL VOLTAGE	12.8V
NOMINAL CAPACITY	100Ah
NOMINAL ENERGY	1280Wh
CHARGE VOLTAGE	14.2V
DISCHARGE CUT-OFF VOLTAGE	11.2V
STANDARD CHARGE CURRENT	50 Amps
MAXIMUM CHARGER CURRENT	100 Amps
MAXIMUM DISCHARGE CURRENT	150 Amps
PEAK DISCHARGE CURRENT	225 Amps (10 sec)
OPERATING TEMPERATURE	-20°C ~ 60°C
MAXIMUM NUMBER OF BATTERIES IN PARALLEL	4
NUMBER OF DISCHARGE CYCLES	3000
WEIGHT	11KG
IP RATING	IP20



## STORAGE & MAINTENANCE

- To ensure a longer battery lifespan, recharge fully every 3-6 months.
- Ensure battery terminals and screw holes are clean and securely connected.
- If the load connected to battery won't be used for extended periods, disconnect the battery from the load to prevent battery discharge and over-discharge or turn the battery off.
- Insulation and shockproof materials should be used to avoid sudden collisions or crushing during transportation.

## **WARRANTY STATEMENT**

Brown & Watson International Pty Ltd ("BWI") of 1500 Ferntree Gully Road, Knoxfield, Vic., telephone (03) 9730 6000, fax (03) 9730 6050, warrants that all products described in its current catalogue will under normal use and service be free of failures in material and workmanship for a period of three (3) years from the date of the original purchase by the customer as marked on the invoice. This warranty does not cover ordinary wear and tear, abuse, alteration of products or damage caused by the purchaser.

To make a warranty claim the consumer must deliver the product at their cost to the original place of purchase or to any other place which may be nominated by either BWI or the retailer from where the product was bought in order that the warranty assessment may be performed. The consumer must also deliver the original invoice evidencing the date and place of purchase together with an explanation in writing as to the nature of the claim.

In the event that the claim is determined to be for a minor failure of the product then BWI reserves the right to repair or replace it at its discretion. In the event that a major failure is determined the consumer will be entitled to a replacement or a refund as well as compensation for any other reasonably foreseeable loss or damage.

This warranty is in addition to any other rights or remedies that the consumer may have under State or Federal legislation.

### **IMPORTANT NOTE**

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

#### **Distributed by**

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