

# LITHIUM BATTERY

## 12V 100Ah LiFePO4



### 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

### FEATURES

- Lithium iron phosphate technology gives the advantage of high specific energy, long cycle life, high safety, low self-discharge and low weight (14kg).
- 100Ah discharge current, suitable for powering up to 1000W inverters.
- Standard size, ideal for most N70 size battery boxes.
- M8 bolts provide high current transfer ideal for parallel battery setups.
- Carry strap for easy transporting.

## CONNECTING IN SERIES OR PARALLEL

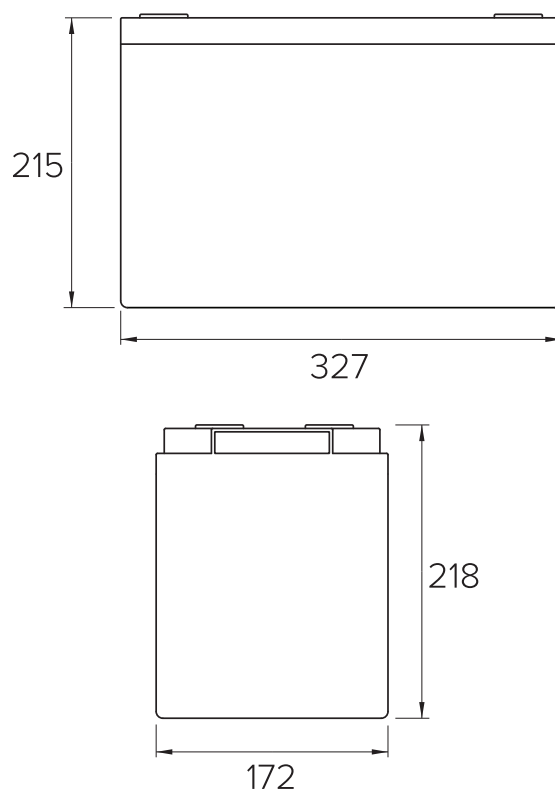
- Ensure all batteries are fully charged before connecting in series or parallel.
- LB100 can be connected in series up to 4 batteries to create a 48V 100Ah setup, or in parallel up to 2 batteries to make 200Ah. DO NOT connect in series and parallel at the same time.
- A parallel setup increases the capacity of the battery system and therefore the working time of connected electrical devices. Maximum discharge current also increases with additional batteries, however a 0.75 ratio needs to be applied. With 2 batteries in parallel, each with a discharge current of 100A (200A total), multiplied by 0.75 will result in approximately 150A discharge current available. This allows a larger inverter to be used than is recommended for a single battery (1000W).

## 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 the battery won't be used for extended periods, disconnect the battery from the load to prevent battery discharge and over-discharge.
- Insulation and shockproof materials should be used to avoid sudden collisions or crushing during transportation.

## SPECIFICATIONS

PART NO.	LB100
NOMINAL VOLTAGE	12.8v
NOMINAL CAPACITY	100Ah
NOMINAL ENERGY	1280Wh
CHARGE VOLTAGE	14.4V
DISCHARGE CUT-OFF VOLTAGE	10V
STANDARD CHARGE CURRENT	20Amps
MAXIMUM CHARGE CURRENT	100Amps
CONTINUOUS DISCHARGE CURRENT	100Amps
PEAK DISCHARGE CURRENT	200Amps (3sec)
OPERATING TEMPERATURE CHARGE	0°C ~ +50°C
DISCHARGE	-20°C ~ +55°C
MAXIMUM BATTERIES IN SERIES	4
MAXIMUM BATTERIES IN PARALLEL	2
NUMBER OF DISCHARGE CYCLES	2000
WEIGHT	14kg
APPROVALS	EMC, UN38.3
WARRANTY	2 Years



## **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 two (2) 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**

#### **AUSTRALIA**

#### **Brown & Watson International Pty. Ltd.**

Knoxfield Victoria 3180

Phone: (03) 9730 6000

Fax: (03) 9730 6050

National Toll Free: 1800 113 443

#### **NEW ZEALAND OFFICE**

#### **Griffiths Equipment Ltd.**

19 Bell Avenue,

Mount Wellington,

Auckland 1060, New Zealand

Phone: (09) 525 4575

Fax: (09) 579 1192

IS501

Issue 1 06/04/22