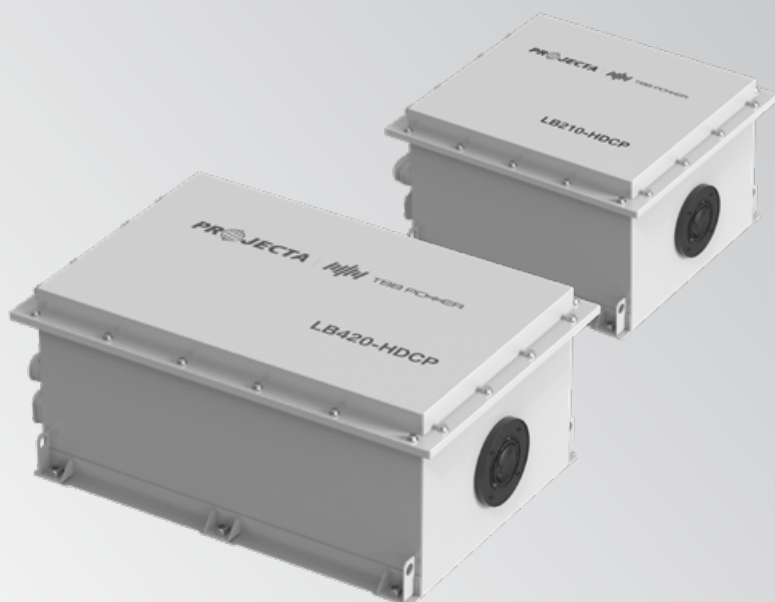


INTELLI-GRID 12V LiFePO₄

210 & 420Ah LITHIUM BATTERY



WARNING

- Do not charge beyond 14.2VDC continuously for 24 hours or more, or use a charger with automatic desulfation mode.
- 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 3–6 months or when the voltage drops below 12.8VDC.
- Ensure battery is fully discharged before proper disposal.



RECYCLE

P/Nos. LB210-HDCP / LB420-HDCP

FEATURES

- 300Amp high discharge current, ideal for powering 3000W inverters.
- Built in current shunt to provide accurate State of Charge (SOC), no additional current shunt required.
Note: internal current shunt only functions with Projecta products with communications link.
- Battery switch (remote) to isolate the system in storage.
- Communication ports to talk to INTELLI-RV/INTELLI-GRID systems 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 (30.6kg/48.5kg).
- Sealed IP67 rated design allows for installation externally both on the side and underneath, as well as being able to be installed internally (separate vent kit required).
- Built-in safety features including overvoltage, undervoltage, overcurrent, high/low temperature and short circuit protection.

SPECIFICATIONS

PART NO.	LB210-HDCP	LB420-HDCP
NOMINAL VOLTAGE	12.8V	12.8V
NOMINAL CAPACITY	210Ah	420Ah
NOMINAL ENERGY	2680Wh	5376Wh
CHARGE VOLTAGE	14.2V	14.2V
DISCHARGE CUT-OFF VOLTAGE	11.2V	11.2V
STANDARD CHARGE CURRENT	200Amps	200Amps
MAXIMUM CHARGE CURRENT	200 Amps	200 Amps
MAXIMUM CONTINUOUS DISCHARGE CURRENT	200 Amps	200 Amps
PEAK DISCHARGE CURRENT	300 Amps (10Mins)	300 Amps (10Mins)
OPERATING TEMPERATURE	-20°C ~ 60°C	-20°C ~ 60°C
MAXIMUM NUMBER OF BATTERIES IN PARALLEL	4	4
NUMBER OF DISCHARGE CYCLES	3000	3000
WEIGHT	30.6kg	48.5kg
IP RATING	IP67	IP67

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.
- When storing discharge to 80%, recharging to 80% again if the state of charge drops below 40%.

PARTS LIST

The following cables are required for a single battery setup:

PART NO.	DESCRIPTION
LBHDC-POS	Positive battery cable 1.2m 50mm ²
LBHDC-NEG	Negative battery cable 1.2m 50mm ²

In addition to the above cables, the following cables are also required when connecting 2 or more batteries in parallel. Note the Negative extension cable is optional.

PART NO.	DESCRIPTION
LBHDC-PAR-POS	Positive parallel cable 1.2m 50mm ²
LBHDC-PAR-NEG	Negative parallel cable - 1.2m 50mm ²
LBHDC-NEG-EXT	Negative extension cable-1.2m 50mm ² (optional)

BATTERY SETUP

For a single battery setup:

1. Connect the **LBHDC-NEG** cable to the **link out port** on the battery
2. Connect the **LBHDC-POS** cable to the **COM port** on the battery.

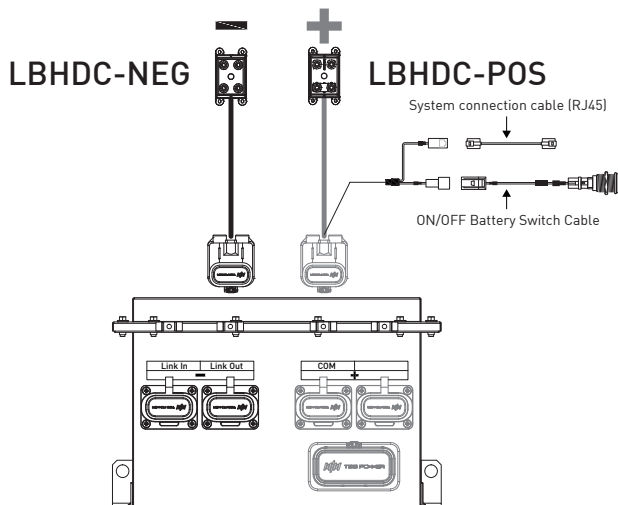
For a 2, 3, or 4 parallel battery setup:

1. Connect the **LBHDC-NEG** cable to the **link out port** of the **last battery** in the parallel chain
2. Connect the **LBHDC-POS** cable to the **COM port** of the **first battery (master)** in the parallel chain.
3. Connect one end of the **LBHDC-PAR-NEG** cable to the **Link out port** on the **master battery** and the other end to the **Link in port** of the **next battery in the parallel sequence**.
4. Connect one end of the **LBHDC-PAR-POS** cable to the **unlabeled port** on the **master battery** and the other end to the **COM port** of the **next battery in the parallel sequence**.

For the best experience and to ensure correct input/output SOC readings, it is recommended to link the batteries to a Projecta 12V power management system such as Intelli-RV or Intelli-GRID. There is a RJ45 system connection cable on the **LBHDC-PAR-POS** to facilitate this connection. It is also recommended to use Projecta components e.g. Inverter Charger to ensure the proper integration and monitoring of system devices.

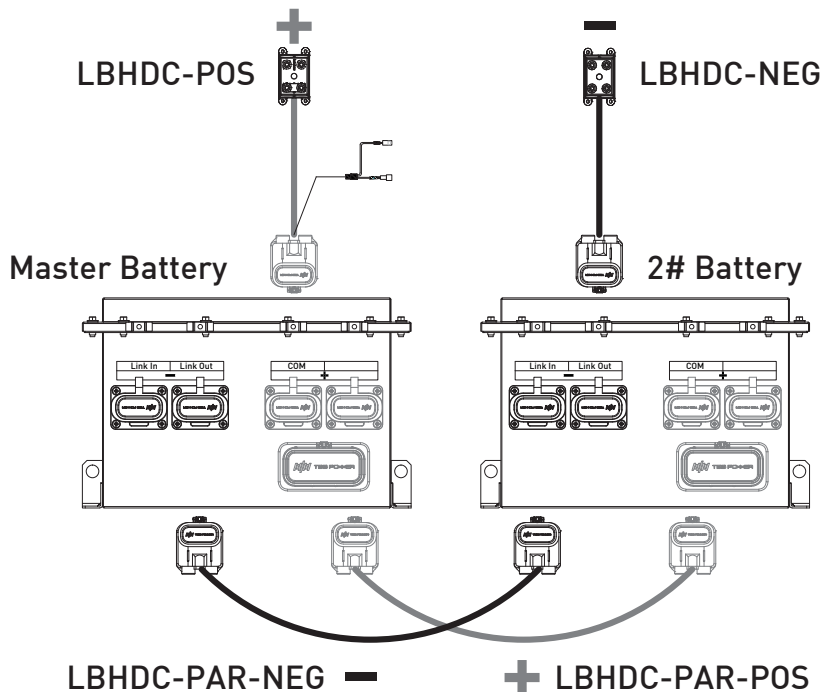
The junction box on the other end of the **LBHDC-NEG** and **LBHDC-POS** is to allow for connection of external input/output devices.

SINGLE BATTERY CONNECTION

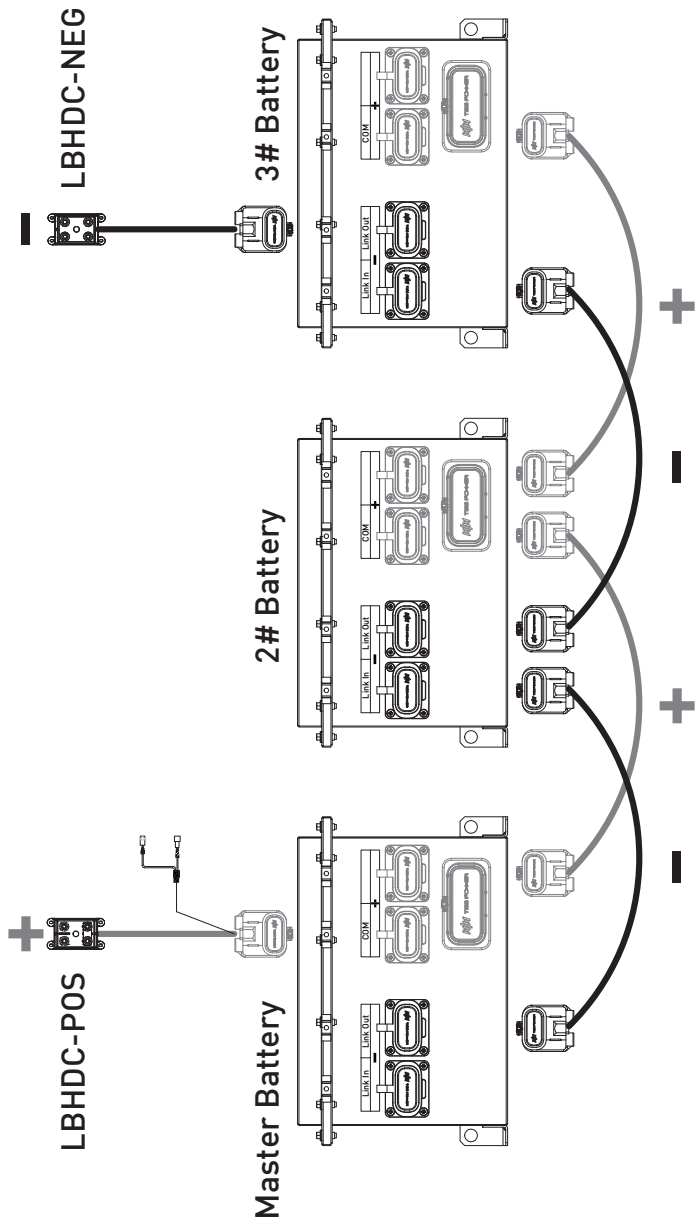


CONNECTING IN PARALLEL

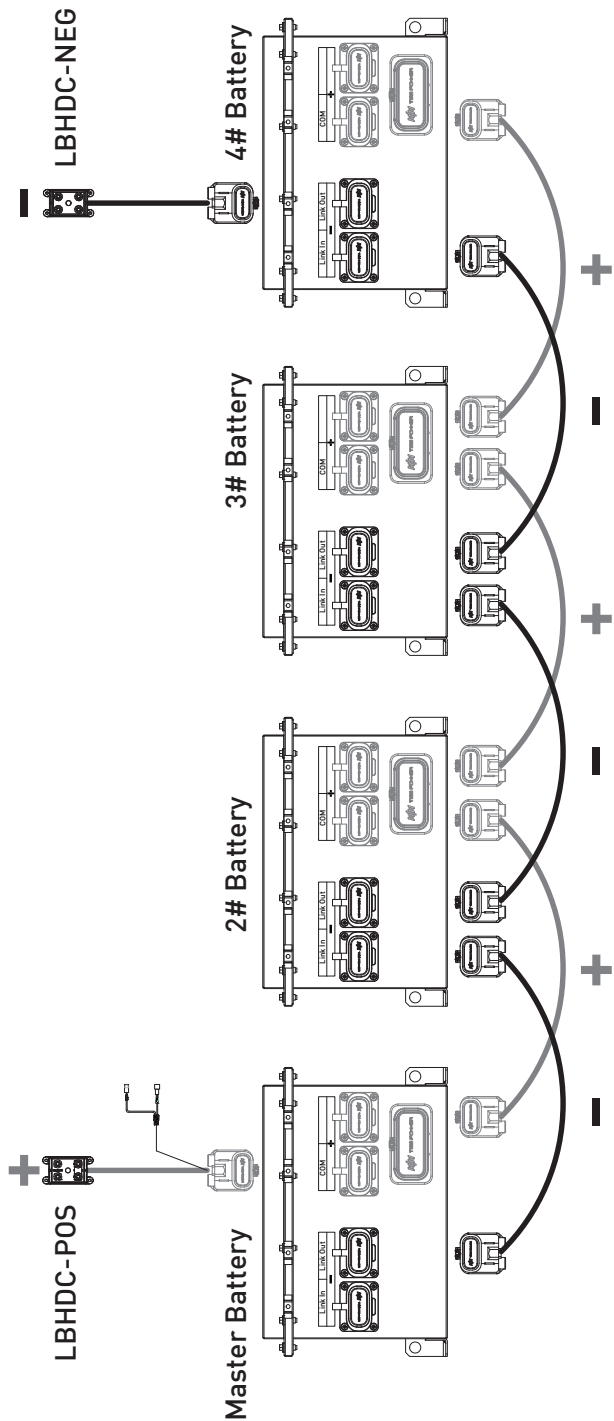
- Ensure all batteries are fully charged before connecting in parallel.
- Up to 4 LB210-HDCP/LB420-HDCP can be connected in parallel to create a maximum 12V 840/1680Ah setup.



CONNECTING IN PARALLEL Cont.

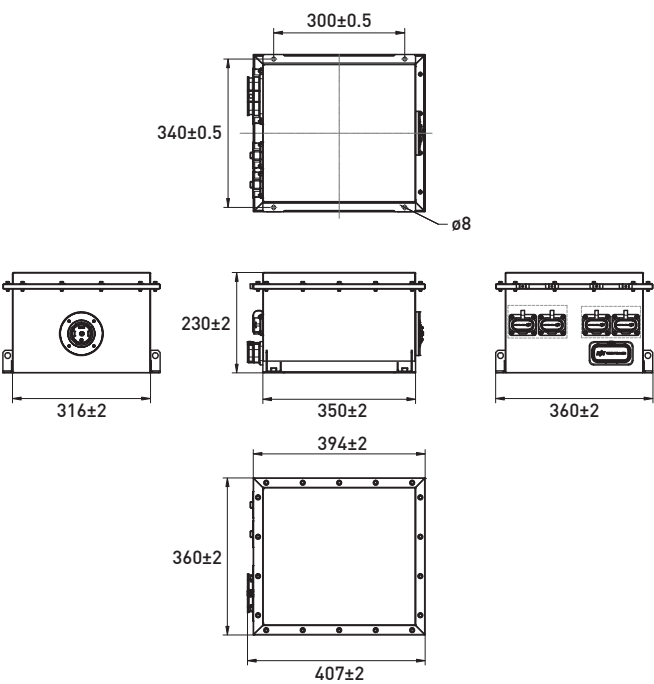


CONNECTING IN PARALLEL Cont.

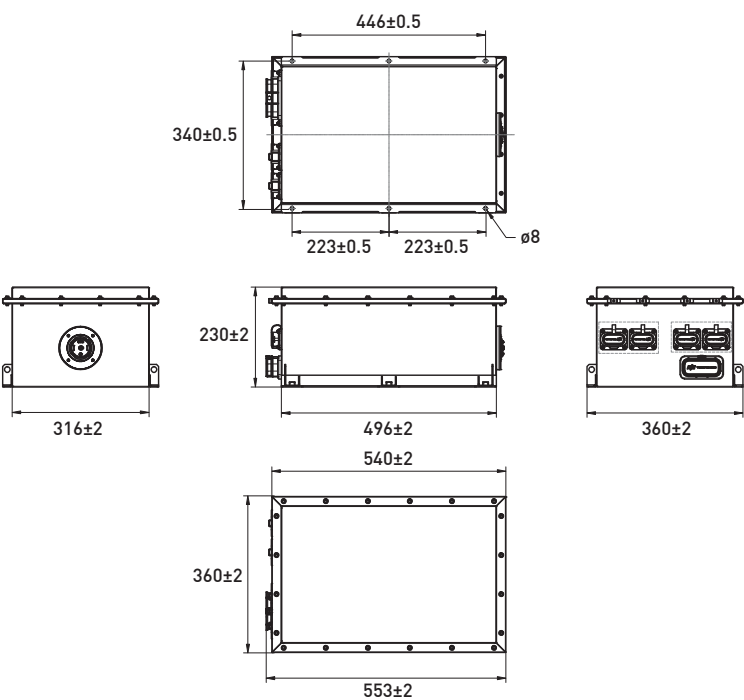


DIMENSIONS

LB210-HDCP



LB420-HDCP



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 five (5) 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.

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