

12V DC POWER MANAGEMENT BOARD



SYSTEM INTRODUCTION

Projecta's range of 12V power management systems are ideal for Ute canopies, 4WD's and Caravans. ICB2000-HD includes a DC/DC charger with solar and alternator inputs, an array of switches and sockets to manage your power needs, a 50A AC charger and 200A high discharge lithium battery. The board also features a convenient easy to read Bluetooth enabled LCD display to check the status of your auxiliary battery. Lastly, it offers a powerful 2000W pure sine wave inverter to run all your 240V appliances off grid.

SYSTEM COMPONENTS

- LCD Battery Monitor with Bluetooth enabled APP
- 500A Current Shunt
- DC-DC Charger with MPPT Solar Controller
- 5 x 20A Switches
- Dual USB Socket (total 3.1A)
- 2 x 50A Heavy Duty Connectors
- Accessory and Merit Socket
- 2KW Inverter
- 50A AC Battery Charger
- 200Ah Lithium Battery
- Low Voltage Disconnect

KEY FEATURES

DC-DC CHARGER (IDC25X)

Providing an advanced charge simultaneously from both solar and alternator inputs, this dual battery management system is ideal for many applications

2000W PURE SINE WAVE INVERTER (IP2000)

Converts 12V power to 240V to allow the use of devices such as laptops to coffee machines, whilst off the grid

50A AC BATTERY CHARGER (IC50)

A versatile charger capable of charging small batteries used in recreational equipment right up to large batteries found in houseboats

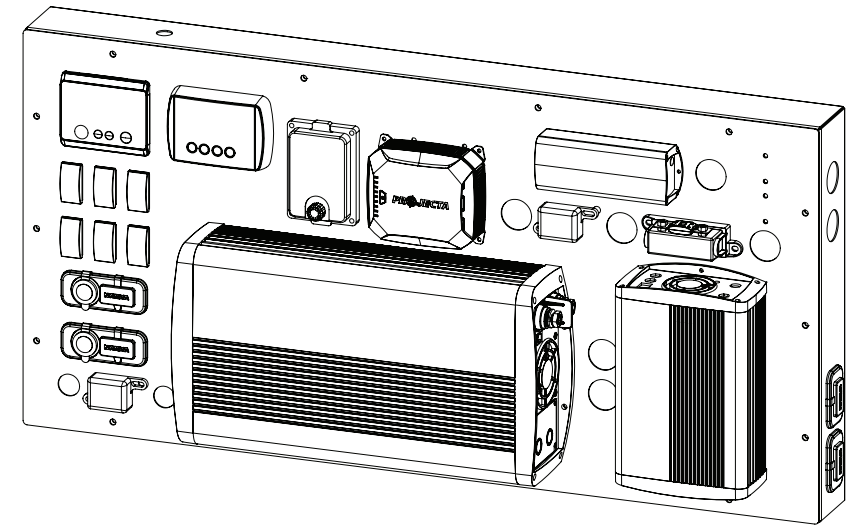
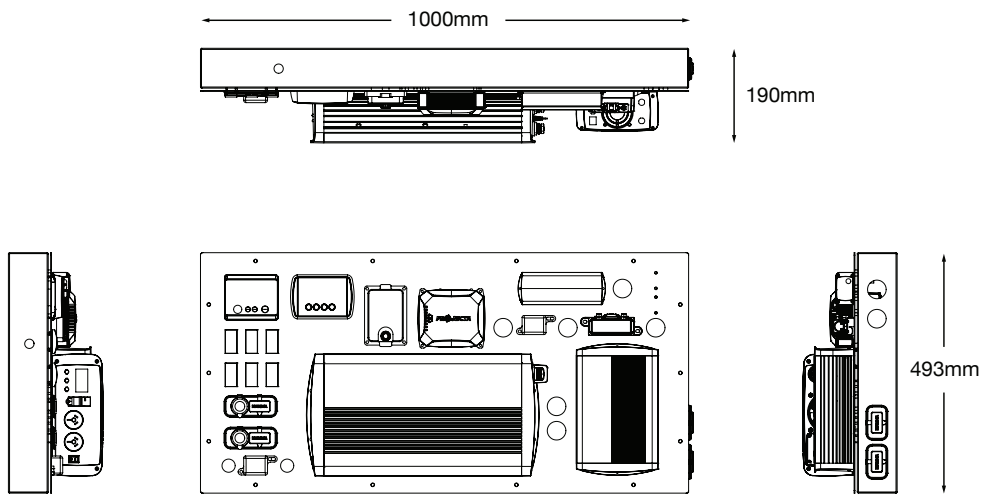
BATTERY MONITOR (LBM-BT)

An intelligent and compact Bluetooth battery meter ideal for monitoring SOC% and general status. Check your battery status via the on-board LCD display or via phone APP

200Ah LITHIUM BATTERY (LB200-HD)

200Ah lithium iron phosphate battery with built in current shunt and on-board communication for additional batteries to be wired in parallel.

Note: Manuals for IDC25X, IP2000, IC50, LBM-BT and LB200-HD can be found on the Projecta website: <https://www.projecta.com.au>



SAFETY WARNING

- Projecta Power Boards require installation into a vehicle, canopy or trailer. If you are unsure or not confident in 12V systems, then it is recommended that a qualified auto electrician is used.
- Always disconnect car batteries before working on 12V systems. Never work with a live 12V system as this can cause injury, damage to the product or damage to the vehicle's electrical system.
- Always use appropriate PPE when using power tools.
- Keep children & pets away from the Projecta Power Board.
- Use suitable gauge wiring when installing. If unsure then contact a qualified auto electrician.
- Do not insert any body parts or tooling in the 12V components.
- Install in a cool, dry, well-ventilated area.
- Ensure any exposed wires are covered.
- Ensure any input wiring is sufficiently insulated and protected from abrasion.
- Ensure input cables are adequately fused. Follow the instructions in this manual or contact a qualified auto electrician for correct fuse sizing.

To battery positive and negative terminals

Note: It is recommended to install a circuit breaker or high current fuse and fuse holder in the positive line as close to the battery as possible.

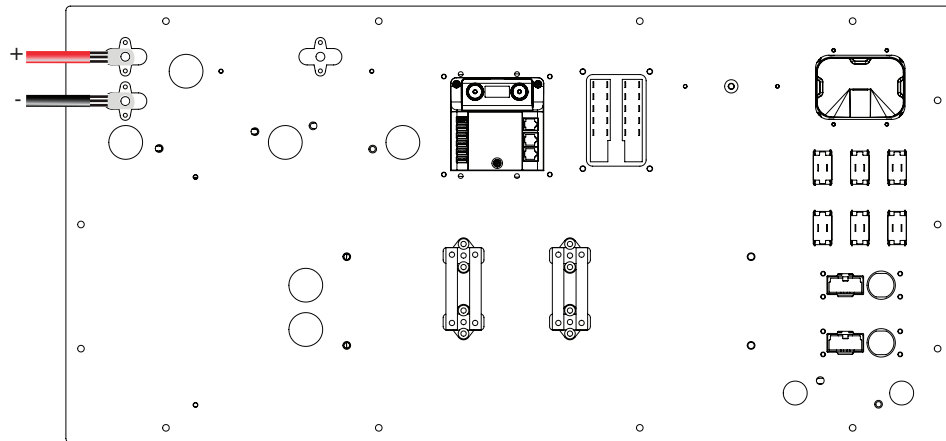


Figure 1

INSTALLATION INSTRUCTIONS

Step 1:

Remove Power Board from Box and dispose of packaging.

Step 2:

Remove the M5 bolts from the perimeter of the board.

Step 3:

Lift the front panel and secure the base bracket to the desired mounting location using bolts.

It is recommended to use 6 x M10 vibration resistant fasteners. See figure 2.

Wiring instructions:

Step 1:

Connecting to battery

Loosen the nuts on the positive (red) and negative (black) posts located on the inside of the board. Select the appropriate cable gauge and attach the positive and negative cable (not supplied) from the battery to the positive (red) and negative (black) posts on the rear of the board. Ensure to add appropriate fusing. Run the cable through the open grommet located on the side of the board. Tighten the connections securely. See figure 1.

Step 2:

Connecting Solar and Alternator input

Ensure the input and solar connections are fitted with HD connectors that match those located on the side of the board, then plug them into matching connection. Note the solar input should be unregulated and externally fused.

Step 3:

Connecting the Switches

The power board features 5 switches to control your output connections. Feed the open positive lead from the back of the switch through the closed grommet on the top or left side of the base bracket by cutting an opening in the grommet first. Wire to the positive side of the desired load (e.g light) and earth as necessary.

Note maximum load per switch is 20A.

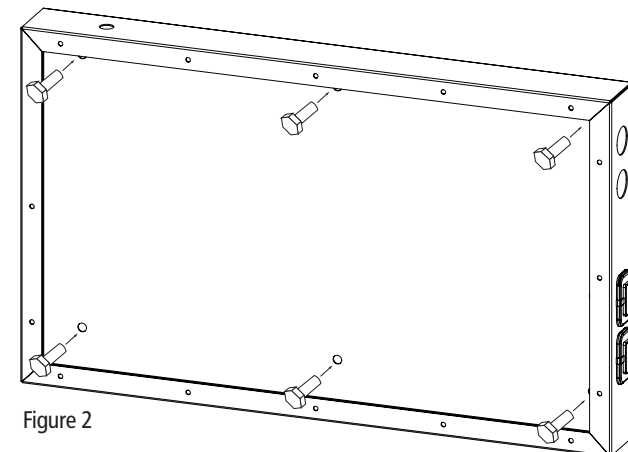
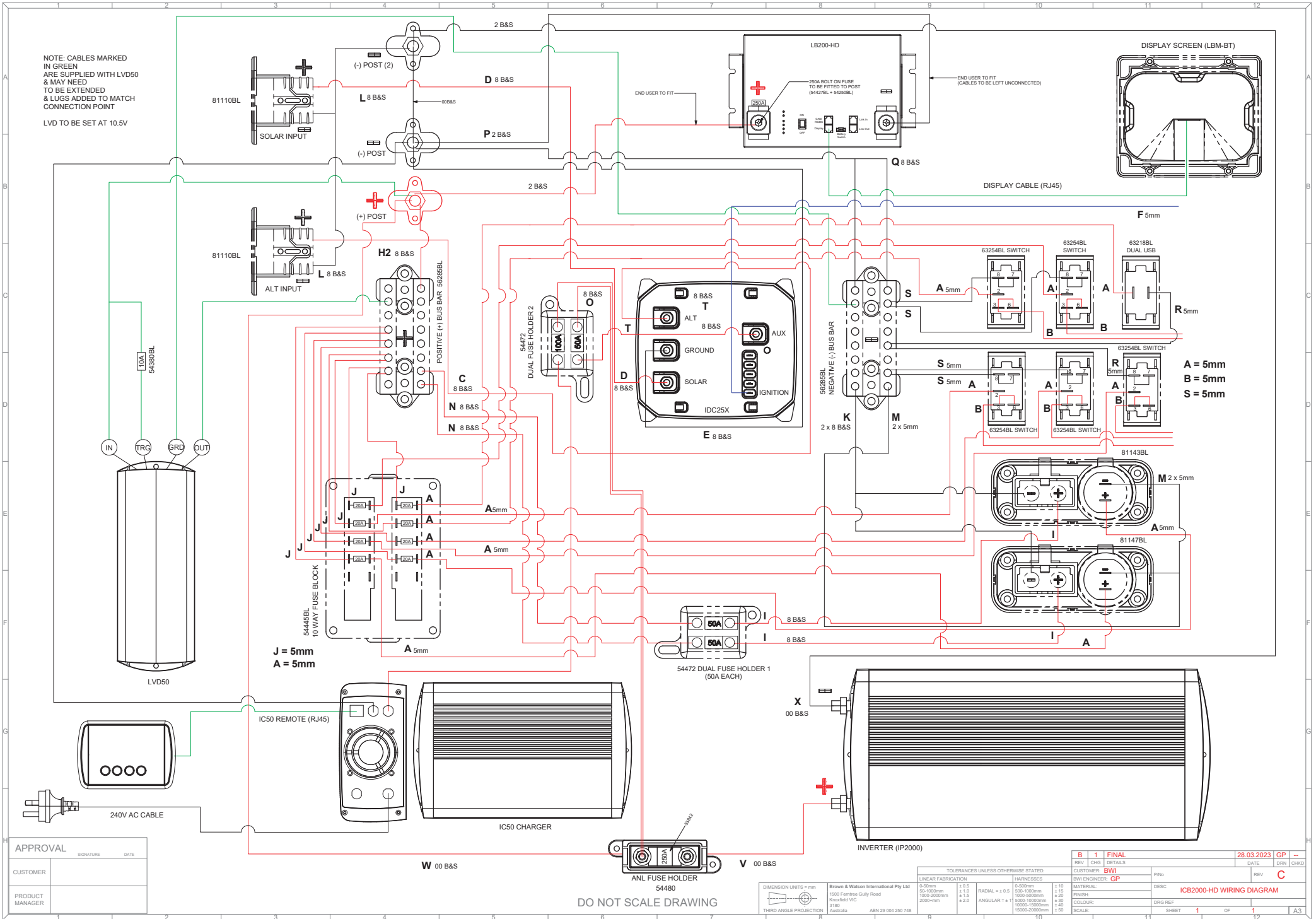


Figure 2

NOTE: CABLES MARKED IN GREEN ARE SUPPLIED WITH LVD50 & MAY NEED TO BE EXTENDED & LUGS ADDED TO MATCH CONNECTION POINT
LVD TO BE SET AT 10.5V



APPROVAL	
SIGNATURE	DATE
CUSTOMER	
PRODUCT MANAGER	

DO NOT SCALE DRAWING

DIMENSION UNITS ± mm	Brown & Watson International Pty Ltd 1900 Ferntree Gully Road Knoxfield VIC 3180 Australia
THIRD ANGLE PROJECTION	ABN: 29 024 250 748

TOLERANCES UNLESS OTHERWISE STATED:	
LINEAR FABRICATION	HARNESSES
0-50mm	± 0.5
50-100mm	± 1.0
100-200mm	± 1.5
200+mm	± 2.0
RADIAL ± 0.5	0-500mm
ANGULAR ± 1	500-1000mm
	1000-1500mm
	1500-2000mm

REV	CHK	DETAILS	DATE	DRN	CHKD
B	1	FINAL	28.03.2023	GP	--
CUSTOMER	BWT		REV	C	
ENGINEER	GP		DESC	ICB2000-HD WIRING DIAGRAM	
PINo	MATERIAL		DRG REF		
	FINISH		SCALE	SHEET 1 OF 1	
	COLOUR			A3	

WARRANTY STATEMENT

Applicable only to product sold in Australia

Brown & Watson International Pty Ltd of 1500 Ferntree Gully Road, Knoxfield, Vic., telephone (03) 9730 6000, fax (03) 9730 6050, warrants that all products described in its current catalogue (save and except for all bulbs and lenses whether made of glass or some other substance) will under normal use and service be free of failures in material and workmanship for a period of five (5) years (unless this period has been extended as indicated elsewhere) from the date of the original purchase by the consumer as marked on the invoice. This warranty does not cover ordinary wear and tear, abuse, alteration of products or damage caused by the consumer. Projecta solar panels are covered by a 1 year warranty for materials and workmanship and a 20 year warranty for at least 80% power output.

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 a 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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ISS52

Issue 1: 19.04.23