## PR JECTA

## 12V DC POWER MANAGEMENT BOARD



P/No ICB1000, ICB1500, ICB2000, ICB3000

## SYSTEM INTRODUCTION

Projecta's range of 12V power management systems are ideal for Ute canopies, 4WD's and Caravans. Choose from a range of pre-built models to suit your vehicles needs. Each model includes a DC/DC charger with solar and alternator inputs along with an array of switches and sockets to manage your power needs. The boards also feature a convenient easy to read Bluetooth enabled LCD display to check the status of your auxiliary battery. Lastly, it offers a powerful 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
- $5 \times 20 \mathrm{~A}$ Switches
- Dual USB Socket (total 3.1A)
- $2 \times 50 \mathrm{~A}$ Heavy Duty Connectors
- Accessory and Merit Socket
- $1 \mathrm{KW} / 1.5 \mathrm{KW} / 2 \mathrm{KW} / 3 \mathrm{KW}$ Inverter
- Easily accessible fuse holders for each component
- Low Voltage Disconnect



## KEY FEATURES

## DC-DC CHARGER (IDC25X)

Providing up to 5 stage charge simultaneously from both solar and alternator inputs, this dual battery management system is ideal for many applications

## PURE SINE WAVE INVERTER (IP1000, IP1500, IP2000 or IP3000)

Converts 12 V power to 240 V to allow the use of devices such as laptops and fridges on the go

## BATTERY MONITOR (BM500-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

## SOCKETS \& SWITCH PANEL

Power and charge 12 V devices with 2 USB sockets (total 3.1A), a merit socket and a cigarette lighter socket. 5 switches are included to control all your connections

## LOW VOLTAGE DISCONNECT (LVD50)

A robust and compact unit that protects expensive deep cycle batteries from damage caused by overdischarge. The switch loads on the board are protected by this unit

Note: Manuals for IDC25X, BM500-BT, IP1000, IP1500, IP2000, IP3000 and LVD50 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 12 V systems, then it recommended that a qualified auto electrician is used.
- Always disconnect car batteries before working on 12 V systems. Never work with a live 12 V 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 12 V 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 $6 \times \mathrm{M} 10$ vibration resistant fasteners. See figure 2.

## Wiring instructions:

Step 1:
Connecting to battery (battery and cable not supplied)
Loosen the nuts on the positive (red) and negative (black) posts located on the inside of the board. Select the appropriate cable guage 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. Feed 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 right 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 cable (see wire $B$ in wiring diagram below) 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






## 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) 97306050 , 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.
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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.
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