Anderson power board - Product data sheet.

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Product overview:

The Auzztech anderson powerboard is a 5-way anderson-style power distribution hub designed for 12V DC auxiliary electrical systems in 4WD, camping, and caravan applications. Built for reliability under demanding field conditions, the Powerboard provides a centralised power distribution point from a single Anderson plug source.

Electrical specifications:

- **Normal operating voltage –** 12 VDC (10 – 15VDC)
- **Maximum continuous current –** 50A
- **Overcurrent protection –** Thermal circuit breaker (self-resetting)
- **Circuit breaker trip current -** ~50A

Typical applications:

- 12V fridge / freezer
- DC-DC battery charger
- Air compressor
- Portable power station charge input
- Lighting and camp lighting rigs
- 12V water pumps and shower systems
- Inverter input (small 150–300W units)
- satellite internet systems.

Installation:

The Powerboard can be permanently mounted or used as a loose appliance. To mount, remove the four Phillips head screws, lift the lid, secure the unit through the four corner mounting holes, then refit the lid.

Using the equipment:

- Identify the labelled “INPUT” port and connect your power source (vehicle auxiliary battery, DC-DC charger output, etc). Always use the designated input to ensure the internal thermal circuit breaker provides overcurrent protection.
- Connect your 12V loads to any of the five “OUTPUT” ports in any order.
- When inserting any plug, push firmly until you feel and hear it snap into place.

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Safety:

- To ensure correct operation of the internal overcurrent protection, always connect the power supply to the designated INPUT connector only.
- The supply cable feeding the Powerboard must be protected with a fuse or circuit breaker rated for the cable, not the load. fitted as close to the supply source as possible. If your cable is rated below 50A, the protection must reflect the cable rating, not the Powerboard's maximum.
- Ensure each connector is fully seated, an improperly seated connector will result in increased contact resistance, voltage drop, and potential overheating under load.
- Do not exceed 50A across all output ports simultaneously.
- Inspect all connections periodically for signs of corrosion, heat discolouration, or mechanical damage. Stop using if damaged.

Maintenance:

- Inspect all Anderson-style plug connections for corrosion, discolouration, or pitting on the contact terminals. Clean with electrical contact cleaner if required.
- Check all connectors for a secure snap-fit.
- Check the Powerboard housing for cracks, UV degradation, or moisture ingress, particularly if in an exposed location.
- If the thermal breaker has tripped repeatedly, investigate and resolve the root cause before continued use. Do not assume repeated tripping is normal operation.
- If any connector shows signs of sustained overheating, melting, charring, or deformed plastic. Stop using the equipment.

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Problem solving:

- **No power at any output.**
  - check the input plug is fully seated.
  - verify the supply source is live and the upstream fuse or circuit breaker has not tripped.
  - Thermal breaker has tripped reduce load and wait for it to cool.
  - Thermal breaker has become loose check inside the unit to ensure it is tightly seated.
  - Thermal breaker is damaged. Replace with new.
- **No power at a single output.**
  - Reseat the affected plug
  - Test the connected device on a known working output to isolate whether the fault is in the device, cable, or connector.
  - Check terminals for corrosion or pitting and clean if required.
- **Voltage drop or device running poorly**.
  - Check all connectors are fully seated with a positive snap-fit
  - Inspect terminals for corrosion or pitting and clean if required
  - Verify supply cable and connections are correctly rated for the load.
- **Connector difficult to insert or remove**.
  - Inspect the plug and socket for debris, deformation, or damaged retaining clips.
- **Connector or housing shows heat damage**.
  - Inspect the affected circuit for overloading or a faulty device drawing excessive current.
  - Inspect the affected circuit for incorrect cable rating.

Repairing your product:

For any repairs or parts replacement, contact Auzztech for guidance prior to commencing work. If you are not confident performing repairs yourself, engage Auzztech or a suitably qualified professional. If your product is within its warranty period, you must contact Auzztech before conducting any repairs; unauthorised work may void your warranty.