

Breadboard Power Supply Modules

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Electronics & Prototyping



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A breadboard power supply module clips onto the breadboard rails and delivers regulated 3.3 V and 5 V from a USB plug, barrel jack or battery pack, giving every prototype a clean, safe power source without loose wires and short circuits.

Key Features

- 3.3 V and 5 V regulated outputs
- USB, barrel jack and screw terminal inputs
- Power indicator LEDs
- On/off switch per rail
- Current up to around 700 mA-1 A

Typical Uses in the Workshop

- Power breadboard circuits cleanly
- Run Arduino-style projects without the PC
- Supply servos and sensors on a band
- Switch rail power independently

Safe Operation

1. Clip the module onto the breadboard rails
2. Connect a USB or battery source
3. Set the jumpers for rail voltages needed
4. Check polarity before powering the circuit
5. Switch off before rewiring

SAFETY NOTES

- Do not exceed the module's rated current
- Watch the input voltage limits
- Keep the module away from water
- Do not power motors from the rails
- Check the USB source capacity

Maintenance & Consumables

- Check the pins fit the breadboard firmly
- Clean the module with dry cloth
- Test both rails with a multimeter
- Keep spare modules in stock
- Store modules in trays

Specification & Buying Notes

Buy modules with both 3.3 and 5 V rails, on/off switches and jumper selection. A pack of five plus a few USB cables covers whole classes. Quality modules regulate cleanly without ripple.