

DIY Small Mobile Power Distribution Box

Article Overview

You can build a simple, portable 12V power distribution box using a rechargeable battery, fuse, switch, and sockets to safely power multiple devices on the go.

Essential Components

To create a basic mobile power distribution box, you will need the following:

- Battery: A 12V rechargeable battery (LiFePO4 for long life and safety, or lead-acid for cost efficiency)
- Fuse and Fuse Holder: Protects the wiring and devices from overcurrent
- Switch: To control power flow from the battery
- 12V Sockets: Cigarette lighter-style or Anderson connectors for powering devices
- USB Ports: Optional, for charging phones or small electronics
- Wires: Appropriately rated for the current you plan to draw
- Project Box or Toolbox: To house all components securely
- Voltmeter: Optional, to monitor battery voltage
- Power Inverter: Optional, if you need AC output for appliances ()

Assembly Steps

- Prepare the Enclosure: Drill holes for sockets, switches, and voltmeter.
- Mount Components: Secure sockets, switches, and fuse holder using nuts, bolts, or threaded inserts.
- Wiring:
 - Connect the positive terminal of the battery to the fuse holder.
 - From the fuse holder, connect to the positive input of the sockets and switch....

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This is an upgraded version of the portable power box build. Sorry about the longer video

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