

# Portable adjustable power supply modification plan





## Overview

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What is a PD adjustable DC power supply?

This project was created on 06/01/2025 and last updated 3 months ago. The PD Adjustable DC Power Supply is a compact, USB-C-powered device designed to provide adjustable voltage output like a traditional lab bench power supply, but using the USB Power Delivery (PD) 60W as power input.

What is an adjustable power supply?

Adjustable Power supplies serve in applications such as powering home appliances, power tools, test bench supplies & trainer board supplies. Commonly used in testing small electronic projects. A simple adjustable power supply is an electronic device capable of converting a source (either AC/DC) from one voltage level to another.

How to set current limit on PD power supply?

Here are the steps to set the current limit on the PD power supply Short the output positive and negative terminal. Now, the power supply should automatically switch into CC mode. Release the shorted terminal, now the power supply should automatically switch back to CV mode. Increase the voltage until the target voltage output is reached.

Can I DIY a PD power supply from scratch?

If you are planning to DIY one from scratch (only the PCB is printed, all other parts are manually soldered), consider using reversion 5 by HCCLAB which has been optimized for manual soldering. The firmware used by this PD power supply requires Arduino IDE with CH55xduino installed. There are no external dependencies except the above board library.



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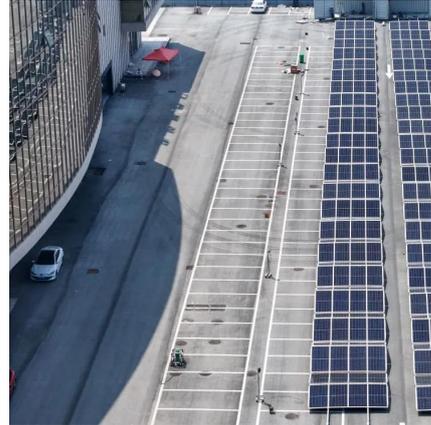


### PD Portable Bench Power Supply



The PD Adjustable DC Power Supply is a compact, USB-C-powered device designed to provide adjustable voltage output like a traditional lab bench power supply, but ...

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In this project, we are building a portable, precise, and versatile 12V to 1V adjustable DC power supply that can also charge USB devices. It features a high-current ...

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[DIY: Turn Spare Power Supply into Portable Unit](#)

In conclusion, by repurposing a spare power supply into a portable adjustable power supply, you can enjoy the convenience of a mobile power source. The modifications are relatively ...

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[Building an Adjustable DC Power Supply: A Schematic Guide](#)

Looking for an adjustable DC power supply schematic? Find a detailed guide on building your own adjustable DC power supply and learn how to customize the voltage and current settings.

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