

## **BLINK SOLAR**

# **Portable power supply modification**



## 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.

Can a laptop power supply be used as a variable power supply?

In this video I show you how you can reuse an old laptop power supply and turn it into a variable power supply. In this project I used a DC-DC converter, a voltage-, and current meter with a display, a mains switch and two 10 kOhm potentiometers.

What are portable power conversion applications?

Portable power conversion applications present unique and challenging design considerations. Innovative, small electronics require solutions with small footprints. In order to maintain battery life, portable applications require both high conversion efficiency and low standby power dissipation.

What is SMPS power supply?

SMPS stands for switch mode power supply and it's the modern and most compact/efficient way of acquiring low voltage DC from mains AC source. However making an SMPS at home may not be as simple as making power supply units using traditional iron core transformers.

## Portable power supply modification

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### Rebuilding the Collins 516F-2 Pwr Supply



Also, I have just learned that the custom power transformers and chokes specified on this website are currently available from the ...

### Automotive portable power supply modification accessory ...

Product descriptions from the supplier Automotive portable power supply modification accessory 12v dc to 120v ac 60hz 500w modified sine wave power inverter



### Commercial and Industrial ESS

Air Cooling / Liquid Cooling

- Budget Friendly Solution
- Renewable Energy Integration
- Modular Design for Flexible Expansion



### Modifying a Chinese power supply to provide ...

Analysis, operation, and modification of a switchmode power supply (SMPS) for variable output voltage (28/10/15)

## Power Boost: Upgrading Your Portable ...

Voltage: Higher voltage alternators can supply more power to your devices, but they may require additional wiring or modifications to ...



## DIY Portable Power Supply

This is the newly designed portable power supply, I followed the 5v boosting approach in this design. So that I can charge the power ...

## Portable Power Conversion Design Guide

Portable power conversion applications present unique and challenging design considerations. Innovative, small electronics require solutions with small footprints. In order to ...



## DIY variable power supply from a laptop ...

A schematic drawing of the connections between the input voltage coming from

the laptop power supply, the DC-DC converter, the ...



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### How to modify an AT / ATX computer power ...

Schematic of modification of the single MOSFET forward converter ATX PC-supply into an adjustable stabilised power supply of 3-15V Optocoupler, ...



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### DIY Portable Power Supply

A power supply with battery charger, Booster circuit, Minimal design, Easy to use I/O and with different voltage output modes. Let's build By Lithium ION.

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### How to Modify SMPS for Adjustable Current ...

What is SMPS SMPS stands for Switch-Mode-Power-Supply, which uses a high

frequency ferrite based switching  
converter for ...



### DIY: Adjustable Power Supply Modification

This text is a modification guide for a power supply. To avoid damaging the original casing, an externally mounted method is used to connect the voltmeter and ammeter, which ...

### Outdoor power supply extreme modification, Portable ...

Outdoor power supply extreme modification, Portable battery cover, Battery - powered USB power bank



### DIY variable power supply from a laptop adapter

A schematic drawing of the connections between the input voltage coming from



the laptop power supply, the DC-DC converter, the voltage-, and current meter and the load. ...

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### PD Adjustable DC Power Supply

A DIY, USB PD powered, pocket sized adjustable DC / lab bench power supply for electronic makers I also made a pocket size reflow hotplate for automatically reflowing SMD ...



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### How to Modify SMPS for Adjustable Current and Voltage ...

What is SMPS SMPS stands for Switch-Mode-Power-Supply, which uses a high frequency ferrite based switching converter for converting the AC 220V to DC. The use of a ...



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### PD Adjustable DC Power Supply

A DIY, USB PD powered, pocket sized adjustable DC / lab bench power supply for electronic makers I also made a

pocket size ...



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### ATX Power Supply 18V and 30V Modification ...



My first attempt to build a power supply capable of 10A @ 30V for my 2x100W Class D-Amp was not successful, because I only reached 10A@ ...

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### How I Built a DIY Variable Power Supply (and Why You ...

Turning an old PC power supply into a fully adjustable electronics workhorse. For the past few weeks, I've been hinting at a big project I've been working on. Well... here it is: I ...



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### Best Portable Power Supply for Camping and ...

Portable Power Supplies on Amazon  
Portable power supplies come in many

shapes and sizes. Some are lightweight and easy to slip ...



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### DIY Portable Power Supply

This is the newly designed portable power supply, I followed the 5v boosting approach in this design. So that I can charge the power supply anytime with a standard USB ...



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### Mini Adjustable Power Supply : 7 Steps (with ...

Mini Adjustable Power Supply: When designing this power supply, my objective was to have it as portable as possible, so you can take it almost ...

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### DIY: Turn Spare Power Supply into Portable Unit

Transform your spare power supply into a portable adjustable power source for

enhanced convenience, with simple modifications and a reliable outcome.  
Electronic Components ...



### **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 ...

### **Convert ATX PSU to Bench Supply to Power ...**

The standard computer power supply unit (PSU) turns the incoming 110V or 220VAC (alternating current) into various DC (direct current) output ...



## **Contact Us**

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