

SolarTech Power Solutions

Host assembly portable power supply



Overview

What is the best portable power supply for college electrical engineering students?

The No Inductor power supply. This project utilizes PicoPD's previous work to prototype a bench power supply. Beside portable soldering iron, this should be one of the best portable tools for college electrical engineering students. This bench power supply is powered by USB-C PD 3.0/3.1 using their PPS capability.

Does the bench power supply have a buck or boost converter?

This bench power supply is powered by USB-C PD 3.0/3.1 using their PPS capability. There is no buck or boost converter on the board as these component is already in your USB-C charger. We will explore how to implement constant voltage (CV) and constant current (CC), two modes that are featured in all of the standard bench power supplies.

How do I charge my portable power supply?

Insert the 18650 battery and the portable power supply is ready to go! How to charge it: Plug micro-USB into the device and the red led will light up. When it is fully charged - the green led will light up. Hope you like the project!.

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.

How many volts a PPS spec can a project handle?

I think this would extend the usefulness and longevity of the project. The PPS spec currently only go up to 20V max. I think that you are talking about AVS mode which allow voltage negotiation up to 48V at 100mV increment.

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