



Yet another Benchtop Power Supply



Bret Dorssers

[VIEW IN BROWSER](#)

updated 14. 10. 2026 | published 14. 10. 2026

Summary

A bench top power supply based around a SFF PC power supply

[Hobby & Makers](#) > [Electronics](#)

A bench top power supply in the style of this [video](#) but with a different design based around a Acer Veriton FSP250-50GLV 250W PSU (pictured) could easily be adapted to a TFX or Flex ATX psu, FreeCAD file and step files included for easy conversion.

Front panel is modular so that you can change up the modules to your liking

Recommended to print in PET-G but PLA could work, about 700g of filament total.

Parts Used (Costs in NZD)

Acer Veriton FSP250-50GLV 250W PSU (\$15 second hand).

[Banana Plug Sockets](#) \$10

[Latching led button](#) \$9

[150W Adjustable Buck Boost](#) \$40

Fuse Box \$8 (can be deconstructed into smaller fuse holders to make lower profile)

Various crimp terminals \$10

M3x10 Socket Caps \$5

M3x8 countersunk \$4

M3x12 countersunk \$4

M3x5 OD4.5mm Brass inserts \$7

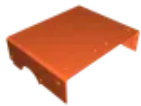
M3x3 OD4.5mm Brass inserts \$6

12V USB-C PD outlet \$8 (not the same one i used but similar).

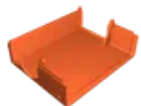
and about 700g of filament about \$15

So \$125NZD (60€) total

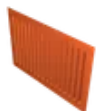
Model files



bench-supply-casetop-c.step



bench-supply-casebase.step



bench-supply-casevent.step



bench-supply-front-panelframe.step



bench-supply-front-panelusb-supply.step



bench-supply-front-panelvariable-supply.step



bench-supply-front-panelpower-switch.step



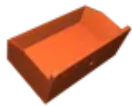
bench-supply-front-panelmulti-outs.step



bench-supply-standtop.step



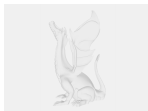
bench-supply-standbottom.step



bench-supply-standdraw.step



bench-supply-standdraw-handle.step



bench-supply.fcstd



bench-supply-fuse-thing.step

License

This work is licensed under a
Creative Commons (4.0 International License)



Attribution-NonCommercial

- ✗ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✗ | Commercial Use
- ✗ | Free Cultural Works
- ✗ | Meets Open Definition