



## MeanWell LRS-350 PSU back cover



outlyer

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updated 18. 1. 2023 | published 18. 1. 2023

### Summary

A cover for the terminals side of a MeanWell LRS-350 power supply

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Tags: [meanwellpsucover](#) [psucover](#)

I needed a cover for the terminal side of a Mean Well LRS-350-24 PSU with enough space to house a plug socket with rocker and took the chance to dust off my limited CAD skills. It's also my first public design. I hope it can be of use to someone else.

My goals when designing it were to make it sturdy and easy to print, and also to be able to mount it without covering any vent holes nor the label.

Place it with the side with the holes on the print bed, it should print without supports just fine (there will be a bit of bridging on the vent holes but shouldn't be much trouble for most printers).

I printed it in PLA at 0.2mm layer height with 3 shells. Tolerances are ample so you should be able to print it fast, I did it at 60 mm/s for the shells.

I'm including a render since the one I printed is installed and hard to reach to take a photo.

Note this cover is **much** thicker than the actual PSU and quite long since I used a socket with fairly long cables and didn't feel like cramming them too hard, so it's definitely not for everyone.

I've added a few optional pieces:

- Feet to be printed with flexible material. Since the screws will stick out some, these feet can be glued around them to provide a more solid base. I printed them on 95A shore hardness TPU.
- Soft ring to be printed with flexible material. Meant to be installed in the cable holes, hugging both ends, so that cables can only rub on softer material (although that shouldn't be an issue)

Additional hardware I used:

- IEC320 C14 plug socket with rocker (hexagonal outer shape)
- 2 M3 self tapping screws, approx 10mm length
- 2 to 4 M4 screws (2 M4x6, 2 M4x8, maybe longer if using washers, see note below). You can hold it either with a screw on each side, two on the bottom, or the four of them.

**Note:** The screw holes in the PSU are officially 3mm deep on the underside and 5mm deep on the sides, and this cover is 1.85mm thick

A note on versions: I'm adding a version number to the files in case I ever update the design.

## Model files

**psu-cover-v25.3mf**

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**rubber-foot-cover-side-v25.3mf**

☐ Optional

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**rubber-foot-opposite-side-v25.3mf**

☐ Optional

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**cable-hole-ring-v25.3mf**

☐ Optional

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24v-psu-cover-v25.step

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