



Tesla V4 Supercharger Phone Charger



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Summary

This is a model of the V4 Supercharger. You might not succeed in charging your car with it, but it looks great anyway.



19.16 hrs



6 pcs



0.15 mm



0.40 mm



PLA



104 g



Prusa MINI /
MINI+

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Tags: [charger](#) [tesla](#) [phonecharger](#) [v4](#) [supercharger](#)

Material

- black and white filament (PLA, PETG, ...)
- USB-C or lighting cable
- concrete or plaster for base (optional)

Printing

side panels (white)

Printing the side panels is quite tricky with a FDM printer because of all the wobble. I printed them standing upright, with the long side aligned with the y-axis and I cut the acceleration speeds in half. You will have to enable supports from built plate. Inner supports are not needed, the model contains a few small support beams in the Tesla logo. Those have to be removed after printing as well.

body parts (black)

These parts are also printed upright. They don't require any supports. Make sure to align the longer side with the moving direction of the print-bed.

base (3D printed or concrete moulded)

I casted my base in plaster to make the charger heavy at the bottom. This way it won't tip over when handling the cable. It also makes the whole setup more authentic. 3D print the mould in regular PLA and coat the inner surface with oil to ensure that it is detachable. Flexible material like TPU might also be a good option if you plan to reuse the mould.

I've also uploaded a fully 3D-printable version of the base.

Assembly

1. Put the cable into the channel in the front-center part. It should be about 21cm long as it leaves the inside of the charger.
2. Press the two center-parts together.
3. Carefully mount the side panels to the center part.
4. Push the charger into it's base and lead out the cable at the back.

Credits

This project is inspired by the popular [SuperCharger Phone Charger](#) from [RobPfis07](#). The design and measurements are taken from the [leaked Tesla Supercharger blueprint](#).

Model files



STL

6 files



front_panel.stl



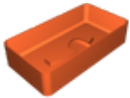
rear_panel.stl



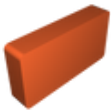
front_center_part.stl



rear_center_part.stl



base_mould.stl

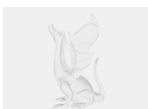


base_part.stl



STEP

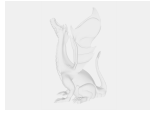
6 files



base_mould.step



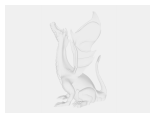
rear_center_part.step



base_part.step



rear_panel.step



front_center_part.step



front_panel.step

Print files



Prusa MINI & MINI+

6 files



front_panel.gcode

🌀 PLA 📏 0.40 mm ≡ 0.15 mm ⌚ 3.92 hrs ⚖️ 14 g 📄 Prusa MINI / MINI+



rear_panel.gcode

🌀 PLA 📏 0.40 mm ≡ 0.15 mm ⌚ 3.96 hrs ⚖️ 14 g 📄 Prusa MINI / MINI+



front_center_part.gcode

🌀 PLA 📏 0.40 mm ≡ 0.15 mm ⌚ 4.41 hrs ⚖️ 26 g 📄 Prusa MINI / MINI+



rear_center_part.gcode

🌀 PLA 📏 0.40 mm 📐 0.15 mm ⌚ 4.31 hrs ⚖️ 23 g 🖨️ Prusa MINI / MINI+



base.gcode

🌀 PLA 📏 0.40 mm 📐 0.15 mm ⌚ 2.56 hrs ⚖️ 27 g 🖨️ Prusa MINI / MINI+



base_mould.gcode

🌀 PLA 📏 0.40 mm 📐 0.15 mm ⌚ 1.63 hrs ⚖️ 14 g 🖨️ Prusa MINI / MINI+

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