

S25 Ultra Charging Stand Print & Setup Guide

A landscape dock that turns a Galaxy S25 Ultra into a bedside clock while it charges.

[One Plate](#)[Tree Supports](#)[Magnetic Charger](#)

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Most bedside chargers are a flat pad. The phone lies on it, screen dark, doing nothing while it charges. This stand stands it up sideways so the charging spot doubles as a clock you can read from the pillow.

It is one printed part: a frame with a phone-shaped pocket in the front, a round pocket behind it for a magnetic wireless charging puck, and a kickstand that leans the whole thing back at a reading angle. The phone drops into the pocket, the magnet in its case snaps to the puck, and it charges. The back is open, so the puck and the phone both get air.



Docked in landscape on a side table, running a night-clock app. The charging cable leaves from the back.

In the download

File	What it is
makerx-s25-ultra-charging-stand.3mf	Start here. One plate, oriented, with the tested profile and the tree supports already set up.
makerx-s25-ultra-charging-stand.stl	The raw mesh for your own slicer. It is already in print orientation, phone pocket facing up; it needs supports either way.

You also need a **magnetic wireless charging puck** and a **magnetic (MagSafe-style) case** for the phone. Neither is printed. Section 1 has the sizes they have to fit.

1 • Check the fit before you print

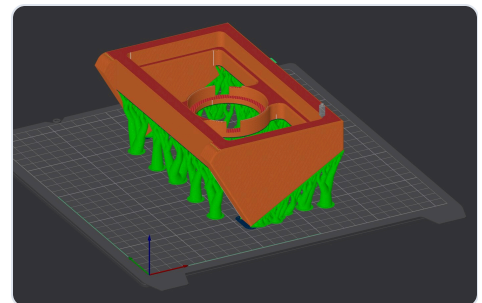
The part	
Overall size	117.4 × 190.5 × 72.2 mm
Phone pocket	168.4 × 84.8 mm , 12.4 mm deep
Charger pocket	61 mm across, about 9 mm deep to its ledge
Window out the back	51 mm across, behind the charger
Bed needed	Fits a 220 × 220 mm bed with room to spare
On the plate	169.98 g PLA · 56.99 m · 12 h 21 m

What it was tested with

An S25 Ultra in an **ESR MagSafe case** (Clear Black), and a **QUZUDN 15 W magnetic wireless charger**. The pocket is sized for the phone *in* a slim case, so a bare phone will sit loose and a thick rugged case will not go in. Any puck up to about 60 mm across will seat in the charger pocket.

2 • Slice it

- 1 Open `makerx-s25-ultra-charging-stand.3mf` in Creaity Print, or any slicer that imports 3MF project files.
- 2 When it asks whether to load the project's print settings, **say yes**. That brings the support setup with it.
- 3 Leave the orientation alone. It lies back on the plate with the **phone pocket facing up**, which is the tested setup, so there is nothing to rotate.
- 4 Confirm your printer and filament, then slice.



As sliced: phone pocket facing up, kickstand underneath, tree supports (green) under everything that overhangs.

★ Why it prints tilted, on supports

Printed this way, the phone pocket is the top of the print. That is the face you look at every night, and it comes out as a clean top surface that no support touches. Every support mark ends up on the back panel and the underside of the kickstand, where nobody sees it. It costs about 41 g of support, roughly a quarter of the filament.

3 • The profile baked into the 3MF

Using your own profile instead? Match these. All sliced and print-tested on a Creality Hi with a 0.4 mm nozzle.

Quality	
Layer height	0.12 mm
First layer	0.20 mm
Nozzle	0.4 mm
Walls	4 loops
Top / bottom	5 / 3 layers
Infill	9 % gyroid

Supports & adhesion	
Supports	Tree, auto
Threshold	30 °
Build plate only	Yes
Brim	Outer only, 5 mm

Material & plate	
Filament	PLA
Nozzle temp	220 °C
Bed temp	60 °C
Plate	Epoxy resin

What it costs you	
Print time	12 h 21 m
Part	128.53 g
Support	41.45 g
Total	169.98 g · 56.99 m

The preset says 0.20 mm. The layer height is 0.12 mm.

The process preset inside the 3MF is *named* "PLA 0.20mm", but the layer height set in it is **0.12 mm**. That is the height this was printed and tested at. Leave it there; the time and weight in this guide are for 0.12.

"Build plate only" is doing real work

With it on, the trees can only grow up from the bed, so none of them lands inside the phone pocket or the charger pocket. If your slicer resets supports to "everywhere", turn that back off.

4 • Before you hit print

- ☐ Orientation untouched: phone pocket up, kickstand down.
- ☐ Tree supports **on**, set to build plate only.
- ☐ Plate clean. The part meets the bed along one narrow edge and relies on its trees for twelve hours, so the small brim is correct. It is not a setting that failed.
- ☐ At least **200 g** of filament left on the spool.

5 • Off the plate

- 1 Let the plate cool before you lift the part.
- 2 Snap the trees away from the plate first, then twist them off the part. They only touch the back panel and the underside of the kickstand. Reach through the two open windows for the ones behind the charger pocket.
- 3 Clean up the back around the charger window with a blade, so the cable has a smooth path out.
- 4 Check both pockets are clear. Nothing should be in them, because the phone pocket was the top of the print.

6 • Set it up

- 1 From the **phone side**, drop the charging puck into the round pocket in the floor of the phone pocket, **charging face up**, so it rests on the ledge.
- 2 Lead its cable through the notch in the rim of the charger pocket and out the back.
- 3 If the puck moves in the pocket, a small dab of glue on the ledge holds it. Keep glue off the charging face.
- 4 Set the stand on the nightstand and drop the phone into the pocket in landscape. The magnet in the case snaps to the puck and charging starts.
- 5 Open a night-clock app and it becomes a bedside display.



From the back: the puck sits on its ledge, visible through the window, with the cable leaving from the side.

★ Leave the back open

Magnetic charging runs warmer than a cable. The back of the stand is open on purpose so air reaches both the puck and the phone. Leave a little space between the stand and the wall behind it.

A different phone, case or charger?

Check it against the sizes in section 1: the phone in its case has to fit a 168.4 × 84.8 mm pocket, and the puck a 61 mm one. If yours doesn't, get in touch. I'm happy to customize the fit.

Where precision meets the printer

Thanks for printing this one. If it earned a permanent spot on your nightstand, that is exactly what it was designed to do.

For years my design world existed entirely behind a screen. As a mechanical engineer I spent countless hours building complex CAD models, but there was always a missing link — the ability to hold an idea in my hands. That changed in January 2026, when I went headfirst into 3D printing. The moment that first layer stuck to the bed, the gap between concept and reality vanished.

Coming from a background where precision is everything, tolerances aren't suggestions to me — they are a religion. I didn't want to print trinkets; I wanted to apply industrial engineering discipline to desktop manufacturing. Every wall count, every layer height and every infill percentage in this guide is a deliberate decision backed by testing. If a part can't handle the environment it was built for, it goes back to the drawing board.

Three principles behind every print

01

Functional Engineering

High-utility, real-world solutions rather than purely decorative models. If it doesn't solve a practical problem, it doesn't leave the workstation.

02

Rigorous Tolerances

Designed in professional CAD with mechanical intent — press-fits that click and assemblies that work straight off the build plate. No sanding, no filing, no guesswork.

03

Bridging the Gap

Industrial structural integrity at maker speed. Proving a desktop printer can produce parts worthy of real engineering applications is what drives every release.

The workshop

Mechanical engineering degree · SolidWorks precision modeling · two Creality Hi printers · Virginia Beach, Virginia · every design free to download.

A note on sharing

I'm thrilled when people use and share these designs. I just ask that you respect the license shown on the model listing and give the required credit, so I can keep contributing to the collective workshop.

IF THIS ONE EARNED ITS SPOT

A **Like** or a **Favorite** on the model page takes a second and genuinely helps. A **Boost** helps more than either — it is what puts a design in front of makers who would never otherwise come across it. And if you **Follow** me, new models and updates land in your feed as they are released. However you choose to support it, thank you — it is what keeps everything here free to download.

Running it with a different phone, case or charger? Post a make with a photo and say what you used — that is the information the next person with the same setup is looking for.

Happy charging. — MakerX Designs · makerxdesigns.com · © 2026