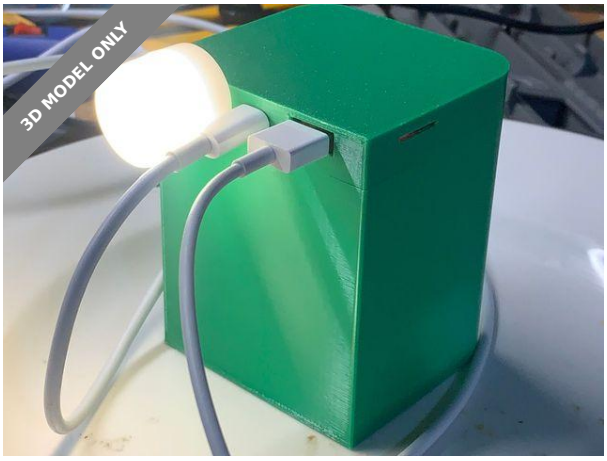

18650 9-cell power bank

j jed

VIEW IN BROWSER

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Summary

18650 9-cell power bank

Hobby & Makers > Electronics

Tags: 18650 18650battery 18650powerbank powerbank

A 9-cell 18650 power bank. This print is designed around an IP5328P Boost Charging Module but can easily be adapted for other modules. If you are interested in different sizes for different modules, please reach out to me.

Assembly

1. Print components.
    1. base - holds the batteries.
    2. shield - a physical barrier between the module and the battery. This will prevent short circuits in case something dislodges.
    3. cell holders - print two of these
    4. top - holds the charging module.
2. Solder wires to charging module.
3. Super glue charging module inside top. Note columns designed for this particular module to slide into.
4. Super glue shield into top to prevent short circuits.
5. Put batteries into cell holders using hot glue to secure in place. I suggest using two with one near the top and one near the bottom.

6. Spot weld batteries in parallel.
7. Solder wires in place.
8. Add hot glue to negative terminals of batteries.
9. Insert into base and let cool.
10. Optional - add hot glue to positive terminals and sides to secure in place.
11. Super glue top to base.
    1. Tip - use accelerant to quickly secure the top to the base to hold it in place.
12. Charge and enjoy!

Material

I printed this in PLA and PETG and both came out great. If you're using PLA, be aware that hot glue will warp it because of the heat. It will not with PETG.

Similar Models

1-Cell Power Bank

3-Cell Power Bank

Model files

safety_plate.stl

top.stl

base.stl

cell_holder.stl

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