

Gridfinity Battery Trays (AA, AAA, 18650, CR123, 9V, 21700)



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[VIEW IN BROWSER](#)

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Summary

Battery holder trays (AA, AAA, 18650, CR123, 9V, 21700) compatible with the Gridfinity storage system

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Tags: [organizer](#) [aa](#) [desk](#) [aaa](#) [storage](#) [battery](#) [18650](#) [sorting](#) [bin](#) [21700](#) [cr123a](#) [cr123](#) [9v](#) [gridfinity](#) [rebuilt](#)

These are storage trays for different common batteries designed for the Gridfinity organization system by [ZackFreedman](#)

These were all made using the [Gridfinity Rebuilt](#) project. I increased the detail of the models beyond the default configuration so that the holes would come out a bit more round. All custom configurations used are in the uploaded text file.

There is one STL for each combination of settings for each Gridfinity size for each battery type listed below. Each STL files list how many batteries they can hold in the filename.

If you would like another battery size or Gridfinity base size added, please let me know in the comments or a private message and I'll try to add it for you!

Battery types:

- AA (x4-25 batteries per tray)
- AAA (x9-41)
- 18650 (x2-16)
- CR123/CR123A (x4-20)
- 9V (x2-10)
- 21700 (x4-9) **there is no 1x1 tray for this size

Gridfinity base sizes (all models are 'half-height'):

- 1x1
- 1x2
- 1x3
- 2x2

Different settings for each size:

- Magnet and screw holes on the bottom, with Gridfinity lip on top*
- Magnet holes, with lip
- No holes, with lip
- Magnet and screw holes, without lip
- Magnet holes, without lip (my personal preference!)
- No holes, without lip

*-The 'lip' is the top part of Gridfinity that is used to allow stacking containers. Since putting batteries in these will block the ability to stack more Gridfinity on top anyways, I decided to also export each of the STLs without the lip as they save on filament and print time. They might look a bit out of place in a very organized Gridfinity (but does anyone really have a cohesive Gridfinity that's not ever-evolving?)

There are a few extra STLs (i.e. AAA 2x2x2) that are marked as [packed]. These hold more batteries, but in my opinion were not in line with the "readily and easily accessible" spirit of Gridfinity as the batteries are so close together they may be more of a hassle to remove. I left them in the pack for those who are looking for the most storage density.

This started with all of the battery sizes I use regularly enough to keep some on hand. I used it as a way to familiarize myself with the Gridfinity Rebuilt project and with the basics of OpenSCAD and then I went a bit overboard...

Print settings:

- Nothing special, just your typical Gridfinity settings. Low infill (use whatever you need to get nice top surfaces), no supports needed. Keep an eye out for thin walls on some of the models, especially the [packed] ones!

Updates:

- Mar 06 2023 - Added 21700 bins by request
- Mar 08 2023 - Renamed files so GF unit dimensions make more sense (2x1x3 is now 1x2x3 and 3x1x3 is now 1x3x3)

This remix is based on

Gridfinity
Rebuilt
in
OpenSCAD

Gridfinity Rebuilt in OpenSCAD
by kennetek

Model files



AA - magnet and screw holes, with lip

5 files

aax4-1x1x3-magnet-and-screw-holes-with-lip.stl

aax5-1x1x3-packed-magnet-and-screw-holes-with-lip.stl

aax10-1x2x3-magnet-and-screw-holes-with-lip.stl

aax14-1x3x3-magnet-and-screw-holes-with-lip.stl

aax25-2x2x3-magnet-and-screw-holes-with-lip.stl



AA - magnet holes, with lip

5 files

aax5-1x1x3-packed-magnet-holes-with-lip.stl

aax4-1x1x3-magnet-holes-with-lip.stl

aax10-1x2x3-magnet-holes-with-lip.stl

aax14-1x3x3-magnet-holes-with-lip.stl

aax25-2x2x3-magnet-holes-with-lip.stl



AA - no holes, with lip

5 files

aax4-1x1x3-no-holes-with-lip.stl

aax5-1x1x3-packed-no-holes-with-lip.stl

aax10-1x2x3-no-holes-with-lip.stl

aax14-1x3x3-no-holes-with-lip.stl

aax25-2x2x3-no-holes-with-lip.stl



AA - magnet and screw holes, no lip

5 files

aax4-1x1x3-magnet-and-screw-holes-no-lip.stl

aax5-1x1x3-packed-magnet-and-screw-holes-no-lip.stl

aax10-1x2x3-magnet-and-screw-holes-no-lip.stl

aax14-1x3x3-magnet-and-screw-holes-no-lip.stl

aax25-2x2x3-magnet-and-screw-holes-no-lip.stl



AA - magnet holes, no lip

5 files

aax4-1x1x3-magnet-holes-no-lip.stl

aax5-1x1x3-packed-magnet-holes-no-lip.stl

aax10-1x2x3-magnet-holes-no-lip.stl

aax14-1x3x3-magnet-holes-no-lip.stl

aax25-2x2x3-magnet-holes-no-lip.stl



AA - no holes, no lip

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aax4-1x1x3-no-holes-no-lip.stl

aax5-1x1x3-packed-no-holes-no-lip.stl

aax10-1x2x3-no-holes-no-lip.stl

aax14-1x3x3-no-holes-no-lip.stl

aax25-2x2x3-no-holes-no-lip.stl



AAA - magnet and screw holes, with lip

5 files

aaax9-1x1x3-magnet-and-screw-holes-with-lip.stl

aaax18-1x2x3-magnet-and-screw-holes-with-lip.stl

aaax27-1x3x3-magnet-and-screw-holes-with-lip.stl

aaax36-2x2x3-magnet-and-screw-holes-with-lip.stl

aaax41-2x2x3-packed-magnet-and-screw-holes-with-lip.stl



AAA - magnet holes, with lip

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aaax9-1x1x3-magnet-holes-with-lip.stl

aaax18-1x2x3-magnet-holes-with-lip.stl

aaax27-1x3x3-magnet-holes-with-lip.stl

aaax36-2x2x3-magnet-holes-with-lip.stl

aaax41-2x2x3-packed-magnet-holes-with-lip.stl



AAA - no holes, with lip

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aaax36-2x2x3-no-holes-no-lip.stl

aaax41-2x2x3-packed-no-holes-no-lip.stl



18650 - magnet and screw holes, with lip

4 files

18650x2-1x1x3-magnet-and-screw-holes-with-lip.stl

18650x7-1x2x3-magnet-and-screw-holes-with-lip.stl

18650x11-1x3x3-magnet-and-screw-holes-with-lip.stl

18650x16-2x2x3-magnet-and-screw-holes-with-lip.stl



18650 - magnet holes, with lip

4 files

18650x2-1x1x3-magnet-holes-with-lip.stl

18650x7-1x2x3-magnet-holes-with-lip.stl

18650x11-1x3x3-magnet-holes-with-lip.stl

18650x16-2x2x3-magnet-holes-with-lip.stl



18650 - no holes, with lip

4 files

18650x2-1x1x3-no-holes-with-lip.stl

18650x7-1x2x3-no-holes-with-lip.stl

18650x11-1x3x3-no-holes-with-lip.stl

18650x16-2x2x3-no-holes-with-lip.stl



18650 - magnet and screw holes, no lip

4 files

18650x2-1x1x3-magnet-and-screw-holes-no-lip.stl

18650x7-1x2x3-magnet-and-screw-holes-no-lip.stl

18650x11-1x3x3-magnet-and-screw-holes-no-lip.stl

18650x16-2x2x3-magnet-and-screw-holes-no-lip.stl



18650 - magnet holes, no lip

4 files

18650x2-1x1x3-magnet-holes-no-lip.stl

18650x7-1x2x3-magnet-holes-no-lip.stl

18650x11-1x3x3-magnet-holes-no-lip.stl

18650x16-2x2x3-magnet-holes-no-lip.stl



18650 - no holes, no lip

4 files

18650x2-1x1x3-no-holes-no-lip.stl

18650x7-1x2x3-no-holes-no-lip.stl

18650x11-1x3x3-no-holes-no-lip.stl

18650x16-2x2x3-no-holes-no-lip.stl



CR123 - magnet and screw holes, with lip

5 files

cr123x4-1x1x3-magnet-and-screw-holes-with-lip.stl

cr123x8-1x2x3-magnet-and-screw-holes-with-lip.stl

cr123x12-1x3x3-magnet-and-screw-holes-with-lip.stl

cr123x16-2x2x3-magnet-and-screw-holes-with-lip.stl

cr123x20-2x2x3-packed-magnet-and-screw-holes-with-lip.stl



CR123 - magnet holes, with lip

5 files

cr123x4-1x1x3-magnet-holes-with-lip.stl

cr123x8-1x2x3-magnet-holes-with-lip.stl

cr123x12-1x3x3-magnet-holes-with-lip.stl

cr123x16-2x2x3-magnet-holes-with-lip.stl

cr123x20-2x2x3-packed-magnet-holes-with-lip.stl



CR123 - no holes, with lip

5 files

cr123x4-1x1x3-no-holes-with-lip.stl

cr123x8-1x2x3-no-holes-with-lip.stl

cr123x12-1x3x3-no-holes-with-lip.stl

cr123x16-2x2x3-no-holes-with-lip.stl

cr123x20-2x2x3-packed-no-holes-with-lip.stl



CR123 - magnet and screw holes, no lip

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cr123x8-1x2x3-magnet-and-screw-holes-no-lip.stl

cr123x12-1x3x3-magnet-and-screw-holes-no-lip.stl

cr123x16-2x2x3-magnet-and-screw-holes-no-lip.stl

cr123x20-2x2x3-packed-magnet-and-screw-holes-no-lip.stl



CR123 - magnet holes, no lip

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cr123x4-1x1x3-magnet-holes-no-lip.stl

cr123x8-1x2x3-magnet-holes-no-lip.stl

cr123x12-1x3x3-magnet-holes-no-lip.stl

cr123x16-2x2x3-magnet-holes-no-lip.stl

cr123x20-2x2x3-packed-magnet-holes-no-lip.stl



CR123 - no holes, no lip

5 files

cr123x4-1x1x3-no-holes-no-lip.stl

cr123x8-1x2x3-no-holes-no-lip.stl

cr123x12-1x3x3-no-holes-no-lip.stl

cr123x16-2x2x3-no-holes-no-lip.stl

cr123x20-2x2x3-packed-no-holes-no-lip.stl



9V - magnet and screw holes, with lip

4 files

9vx2-1x1x3-magnet-and-screw-holes-with-lip.stl

9vx5-1x2x3-magnet-and-screw-holes-with-lip.stl

9vx8-1x3x3-magnet-and-screw-holes-with-lip.stl

9vx10-2x2x3-magnet-and-screw-holes-with-lip.stl



9V - magnet holes, with lip

4 files

9vx2-1x1x3-magnet-holes-with-lip.stl

9vx5-1x2x3-magnet-holes-with-lip.stl

9vx8-1x3x3-magnet-holes-with-lip.stl

9vx10-2x2x3-magnet-holes-with-lip.stl



9V - no holes, with lip

4 files

9vx2-1x1x3-no-holes-with-lip.stl

9vx5-1x2x3-no-holes-with-lip.stl

9vx8-1x3x3-no-holes-with-lip.stl

9vx10-2x2x3-no-holes-with-lip.stl



9V - magnet and screw holes, no lip

4 files

9vx2-1x1x3-magnet-and-screw-holes-no-lip.stl

9vx5-1x2x3-magnet-and-screw-holes-no-lip.stl

9vx8-1x3x3-magnet-and-screw-holes-no-lip.stl

9vx10-2x2x3-magnet-and-screw-holes-no-lip.stl



9V - magnet holes, no lip

4 files

9vx2-1x1x3-magnet-holes-no-lip.stl

9vx5-1x2x3-magnet-holes-no-lip.stl

9vx8-1x3x3-magnet-holes-no-lip.stl

9vx10-2x2x3-magnet-holes-no-lip.stl



9V - no holes, no lip

4 files

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9vx5-1x2x3-no-holes-no-lip.stl

9vx8-1x3x3-no-holes-no-lip.stl

9vx10-2x2x3-no-holes-no-lip.stl



21700 - magnet and screw holes, with lip

3 files

21700x4-1x2x3-magnet-and-screw-holes-with-lip.stl

21700x7-1x3x3-magnet-and-screw-holes-with-lip.stl

21700x9-2x2x3-magnet-and-screw-holes-with-lip.stl



21700 - magnet holes, with lip

3 files

21700x7-1x3x3-magnet-holes-with-lip.stl

21700x4-1x2x3-magnet-holes-with-lip.stl

21700x9-2x2x3-magnet-holes-with-lip.stl



21700 - no holes, with lip

3 files

21700x4-1x2x3-no-holes-with-lip.stl

21700x7-1x3x3-no-holes-with-lip.stl

21700x9-2x2x3-no-holes-with-lip.stl



21700 - magnet and screw holes, no lip

3 files

21700x4-1x2x3-magnet-and-screw-holes-no-lip.stl

21700x7-1x3x3-magnet-and-screw-holes-no-lip.stl

21700x9-2x2x3-magnet-and-screw-holes-no-lip.stl



21700 - magnet holes, no lip

3 files

21700x4-1x2x3-magnet-holes-no-lip.stl

21700x7-1x3x3-magnet-holes-no-lip.stl

21700x9-2x2x3-magnet-holes-no-lip.stl



21700 - no holes, no lip

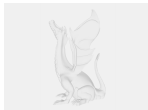
3 files

21700x4-1x2x3-no-holes-no-lip.stl

21700x7-1x3x3-no-holes-no-lip.stl

21700x9-2x2x3-no-holes-no-lip.stl

Other files



gridfinitly-rebuilt-parameters.txt

☐ For use with gridfinitly-rebuilt-bins.scad from Gridfinitly Rebuilt

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