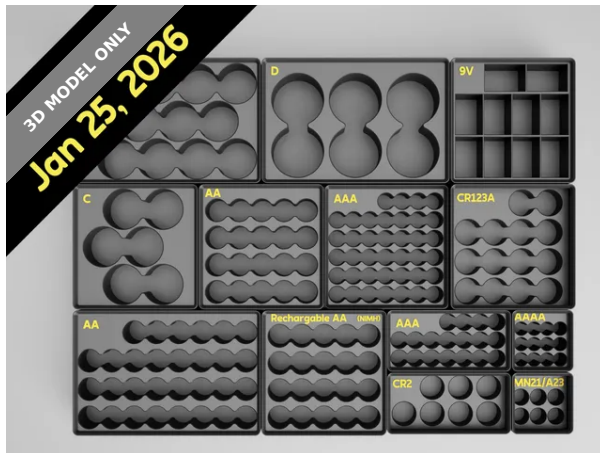




Gridfinity Stackable Battery Storage for Cylindrical & 9V Batteries (AA, AAA, AAAA, C, D, CR2, CR123, MN21/ A23 & 9V)



id10tapproved

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Summary

Gridfinity compatible & stackable storage for: AA, AAA, AAAA, C, D, CR2, CR123, MN21/A23 & 9V batteries.

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Tags: [aa](#) [case](#) [d](#) [aaa](#) [storage](#) [battery](#) [bin](#) [c](#)
[cr123a](#) [a23](#) [9v](#) [cr2](#) [gridfinity](#) [aaaa](#) [mn21](#)

Update on Jan 25, 2026:

1. Partial Height Bins are now available for CR2 & CR123A batteries.
2. AA and AAA bins have also been revised to have an additional compartment.
3. High-capacity bins have also been added.

Gridfinity Stackable Storage for Cylindrical & 9V Batteries

There are lots of bins for holding batteries, but not that had the same core features as the coin cell containers I am using (from [EricS on Makerworld](#)):

1. Stackable
2. Labeled
3. Easy to access batteries

As a result, I created a set of complementary bins for AA, AAA, AAAA, C, D, 9V, CR123A, CR2, & MN21/A23. They have been designed to hold a standard number of batteries, plus a few more. That way when running low, a new pack of batteries can be added without having overflow. They come in two main varieties, which are described below: Partial Height & Full Height.

Full Height Bins

Full height cases have the ability to have containers stacked above them. However, they do lose some functionality as removing batteries is not the easiest. Below are specifics on the bin sizing:

Battery	Capacity	Size (X,Y)	Height
9V (10x)	10	2x2	9U
AA	31	3x2	9U
	20	2x2	9U
Rechargeable AA	20	2x2	9U
AAA	40	2x2	8U or 9U
	19	2x1	8U or 9U
AAAA	12	1x1	7U
	15	2x1	7U

C	12	3x2	9U
	6	2x2	9U
D	6	3x2	10U
CR2	7	2x1	5U
CR123A	14	2x2	6U
MN21/A23	6	1x1	5U

Additional Notes about Full Height Bins

1. AAA bins are available in both 8U heights and 9u heights. They are functionally the same - the only difference is that the 9U height has the battery storage compartments offset 1U taller so that the top of the bins align with the tops of the AA bins.
2. CR2, CR123A and MN/S23 bins: If you want them to be the same height as the other full height bins, I recommend printing empty 3U or 4U bins for them. Using a riser with these batteries is not recommended. The batteries are shorter than the respective riser, resulting in the batteries being able to leave their compartments and possibly short out.

Partial Height Bins

Partial height cases have the side walls ending just above the labels. This allows for easier access to the batteries when they do not need to be stacked. These bins are still stackable using risers which are included. Additionally, the top ledge of the bins is gridfinity standard so empty bins are still stackable. Risers are also interchangeable with any other equivalent sized bin. See printing notes for details about risers.

MN21/A23 bins are not available in partial height. As these batteries are higher voltage (12v) a partial height bin is not planned.

Battery	Capacity	Size (X,Y)	Height w/o Riser	Minimum Riser height*	Height with Minimum Riser
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9V	10	2x2	6U	3U	9U
AA	31	3x2	6U	3U	9U
	20	2x2	6U	3U	9U
Rechargeable AA	20	2x2	6U	3U	9U
AAA	40	2x2	5U	3U	8U
	19	2x1	5U	3U	8U
AAAA	12	1x1	5U	2U	7U
	15	2x1	5U	2U	7U
C	12	3x2	6U	3U	9U
	6	2x2	6U	3U	9U
D	6	3x2	6U	4U	10U

Additional Notes about Partial Height Bins

1. Risers have a thin width first layer. Therefore, I recommend adding a 4mm brim in your slicer of choice so that they stick to the print bed better.
2. For CR2, CR123A: If you want them to be the same height as the other full height bins, I recommend printing the minimum height riser, and then an empty 3U or 4U bin for them. Using a taller riser with these batteries is not recommended as the batteries are shorter than the taller riser, resulting in the batteries being able to leave their compartments and possibly short out.
3. EXCEPT for CR2 & CR123A, taller risers may be used, but batteries will be prone to more rattling.

High Capacity Bins (may have reduced functionality)

@bioxz Requested some 'high capacity' bins that maximized the volume, regardless of whether there would still be room for a label. Two battery sizes could currently could fit more batteries if a label either is not required or reduced in size/legibility. These bins are in a separate sub-folder as they all have some form of reduced functionality as listed in table below. The height of these bins are the same as the related Partial Height bin.

Battery	Capacity	Size (X,Y)	Functionality Notes
AAA-HC	21	2x1	No Label
AAA-HC	42	2x2	Label is partially obscured and is a smaller font size.
CR123A	18	3x2	Label does not have a prefix and font size is smaller. Also, the 'pins' may be prone to breakage depending on material.
AA	32	3x2	Label is in a less than desirable location

Printing Notes

Layer Height: 0.20mm

Nozzle Size: 0.4mm

For the risers, they have a thin width first layer. Therefore, I recommend adding a 4mm brim in PrusaSlicer so that they stick to the print bed better.

Any filament should work; however I used the following for mine:

Main Color: eSUN High Speed PETG Black

Label Colors: eSUN High Speed PETG Yellow & High Speed PTEG Green

Deprecated Bins

Several bins have been revised to be a little more efficient. The older copies of these bins are provided in the deprecated folder should anyone like them better. These bins include:

- AA 3x2
 - V1 - Dec 26, 2025 - 30 compartments
 - V2 - Jan 25, 2026 - 31 compartments
- AAA 2x2
 - V1 - Dec 26, 2025 - 39 compartments
 - V2 - Jan 25, 2026 - 40 compartments
- AAA 2x1
 - V1 - Dec 26, 2025 - 18 compartments
 - V2 - Jan 25, 2026 - 19 compartments

Change History

2026-01-18: Added AAA 9U tall bins (in the Full Height Folder); Added additional notes under full height bins; Revised notes under the table of Partial Height Bins; Added a folder with the various risers available.

2026-01-26: Added partial height bins for CR2 & CR123A; Revised AA & AAA bins (see deprecated bins section); Added high capacity bins; Revised notes with the changes including new table notes under Partial Hight Bins.

Model files

	Full Height	17 files
	9v_2x2x9u.3mf	
	aa_2x2x9u.3mf	



aa_3x2x9u.3mf

☐ Version 2 - Jan 25, 2026



aaa_2x1x8u.3mf

☐ Version 2 - Jan 25, 2026



aaa_2x1x9u.3mf

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aaa_2x2x8u.3mf



aaa_2x2x8u.3mf

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aaa_2x2x9u.3mf

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aaaa-1x1x7u.3mf



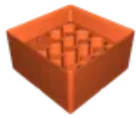
aaaa-1x2x7u.3mf



c_2x2x9u.3mf



c_3x2x9u.3mf



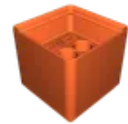
cr123a_2x2x6u.3mf



cr2_2x1x5u.3mf



d_2x3x10u.3mf



mn21-a23_1x1x5u.3mf



rechargeable-aa-nimh-2x2x9u.3mf



Partial Height

23 files



9v_2x2_3u-riser.3mf



9v_2x2.3mf



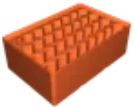
aa_2x2_3u-riser.3mf



aa_2x2.3mf



aa_3x2_3u-riser.3mf



aa_3x2.3mf

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aaa_2x1_3u-riser.3mf

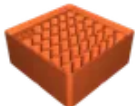


aaa_2x1_v2.3mf

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aaa_2x2_3u-riser.3mf



aaa_2x2_v2.3mf

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aaaa_1x1_2u-riser.3mf



aaaa_1x1.3mf



aaaa_2x1_2u-riser.3mf



aaaa_2x1.3mf



c_2x2_3u-riser.3mf



c_2x2.3mf



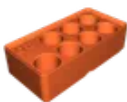
c_3x2_3u-riser.3mf



c_3x2.3mf



cr123a_2x2.3mf

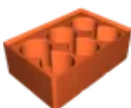


cr2_2x1.3mf

📄 Version 2 - Jan 25, 2026



d_3x2_4u-riser.3mf



d_3x2.3mf



rechargeable-aa-nimh_2x2.3mf



Additional Risers

8 files



1x1_2u-riser.3mf



2x1_2u-riser.3mf



2x1_3u-riser.3mf



2x1_4u-riser.3mf



2x2_3u-riser.3mf



2x2_4u-riser.3mf



3x2_3u-riser.3mf

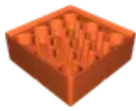


3x2_4u-riser.3mf

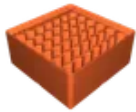


High Capacity Bins

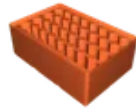
4 files



cr123a-hc-2x2.3mf



aaa-hc_2x2.3mf



aa-hc_3x2.3mf



aaa-hc-2x1.3mf



Deprecated Bins

7 files



aa_3x2x9u_v1.3mf

☐ Full height



aaa_1x2x8u_v1.3mf

☐ Full height



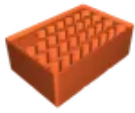
aaa_1x2x9u_v1.3mf

☐ Full height



aaa_2x2x9u_v1.3mf

☐ Full height



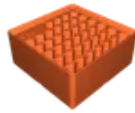
aa_3x2_v1.3mf

☐ Partial height



aaa_2x1_v1.3mf

☐ Partial height



aaa_2x2_v1.3mf

☐ Partial height

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