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Summary

Hobby & Makers > Organizers

Tags: aa stackable aaa battery 18650 cr2032 lr44
cr2025 21700 123 batteryholder cr123a 16340
stackablecontainer coincell cbattery cr123 b 23a
a23 9v cr2016 lr41 cr2450 cr2430 cr1620 cr2
buttoncell dbattery 18500 177 cr1632 lr54 n
gridfinity cr1616 144 lrv08 27a 392 cr1220
lr1130 sr41 aaaa lr1 14250 sr626sw a23s lr23a
sf123a el123a 17345 vl123a 123a ms21 cr23
lr66 gp12a mn21 mn23 l1028 ca20 v23ga p23ga



The containers are designed to be used independently or with [Gridfinity baseplates](#). The bottom has magnet holes for [magnetized Gridfinity baseplates](#).

The containers when fully loaded are stackable.

The battery model number is printed on the outsides and the insides whenever feasible.

The design tries to find the best trade-off between container's capacity, usability, stackability and robustness.

[Gridfinity](#) specifies container sizes with atomic increments of 42mm for the width (X) and the depth (Y), of 7mm for height (Z). For instance, a 1x2x4 Gridfinity container has sizes of 42mm x 84mm x 28mm.

For large batteries, the following dimensions are available (1x1, 2x1 and 2x2).

When the battery is too tall, there is also a low clearance version. This is intended to fit in shallow drawers.

1x1 and 2x1 containers can stack on top of most 2x2 containers. If that is not the case, you may use these [stackable baseplates](#) by [Akio](#) (thanks [@avx](#) for suggesting the idea).

For cell batteries, there are 2 container sizes: 1x1 and 2x1.

Let me know:

- if you cannot find a container for your battery type,
- if you encounter a fitting or usability problem,
- if you have any suggestions.

List of containers

Meaning of filename: ModelName - xNN - grid XYZ - vR.r

where:

- NN is the capacity
- X is the X width gridfinity block count (multiply it by 42mm to get the size)
- Y is the Y width gridfinity block count (multiply it by 42mm to get the size)
- Z is the height gridfinity block count (multiply it by 7mm to get the size)
- R.r is the version number

Battery Type	Capacity	Gridfinity Size
14250 aka CR14250 & ER14250	5	1x1x5
	10	2x1x5
	24	2x2x5
18500	4	1x1x8
	8	2x1x8
	16	2x2x8
18650	2	2x1x4
	4	1x1x10
	4	2x2x4
	8	2x1x10
	16	2x2x10
21700	2	1x1x10
	3	2x2x4
	4	2x1x11
	9	2x2x11
1/2AA	4	1x1x5
	10	2x1x5
	24	2x2x5
9V	2	1x1x8
	5	2x2x5
	6	2x1x8
	12	2x2x8

Battery Type	Capacity	Gridfinity Size
A23 aka 1181A, 144, 23A, 23AE, 3LR50, 8F10R, 8LR23, 8LR932, A23S, CA20, EL12, E23A, GP12A, GP23, GP23A, K23A, L1028, LR23A, LRV08, MN21, MN23, MS21, P23GA, RVO8, VR22, V23GA	9	1x1x5
	21	2x1x5
	48	2x2x5
A27 aka GP27A, MN27, L828, 27A, V27A, A27BP, G27A, 8LR732	16	1x1x5
	36	2x1x5
	80	2x2x5
AA	5	1x1x8
	10	2x1x8
	24	2x2x8
AAA	9	1x1x7
	21	2x1x7
	36	2x2x7
AAAA	16	1x1x7
	32	2x1x7
	64	2x2x7
B	1	2x1x4
	2	1x1x10
	3	2x2x4
	4	2x1x10
	12	2x2x10
C	1	1x1x8
	3	2x1x8
	4	2x2x5
	8	2x2x8
CR2	5	1x1x5
	10	2x1x5

aka 15270, 15266, CR15H270, 5046LC

Battery Type	Capacity	Gridfinity Size
	19	2x2x5
CR123A aka CR123, 123, 123A, 16340, 17345, 2/3A, BR2/3A, CR17345, CR23, DL123A, EL123A, K123LA, L123A, SF123A, VL123A	4	1x1x6
	8	2x1x6
	16	2x2x6
D	1	1x1x10
	1	2x1x6
	2	2x1x10
	2	2x2x6
	5	2x2x10
N aka LR1, MN9100, AM5, GP910A	9	1x1x3
	18	2x1x3
	36	2x2x3

For CRxxxx, AGx and LRxx button cell holders, please go to these posts:

CRxxxx Button Cell Battery Holders (Gridfinity, Stackable, Labelled)
AGx Button Cell Battery Holders (Gridfinity, Stackable, Labelled)
LRxx Button Cell Battery Holders (Gridfinity, Stackable, Labelled)

Credits:

These works were based upon:

[Zach Freedman's](#) initial designs of Gridfinity.

["Gridfinity: Your Ultimate Modular Workshop is FREE!"](#)

[Gridfinity Unofficial Community](#)

[Overkill Gridfinity Baseplate](#) by [Kyle Warren](#)

These works are written using:

[OpenScad](#)

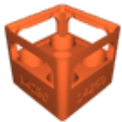
[Gridfinity OpenScad Model](#) by [Jamie](#)

Model files



14250

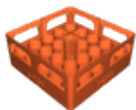
3 files



14250-x05-grid-1x1x5-v20.stl



14250-x10-grid-2x1x5-v20.stl

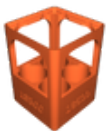


14250-x24-grid-2x2x5-v20.stl

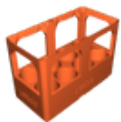


18500

3 files



18500-x04-grid-1x1x8-v20.stl



18500-x08-grid-2x1x8-v20.stl

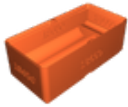


18500-x16-grid-2x2x8-v20.stl

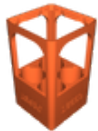


18650

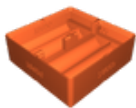
5 files



18650-x02-grid-2x1x4-v20.stl



18650-x04-grid-1x1x10-v20.stl



18650-x04-grid-2x2x4-v20.stl



18650-x08-grid-2x1x10-v20.stl



18650-x16-grid-2x2x10-v20.stl

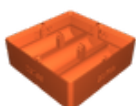


21700

4 files



21700-x02-grid-1x1x11-v20.stl



21700-x03-grid-2x2x4-v20.stl



21700-x04-grid-2x1x11-v20.stl

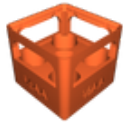


21700-x09-grid-2x2x11-v20.stl



1/2AA

3 files



1-2aa-x04-grid-1x1x5-v20.stl



1-2aa-x10-grid-2x1x5-v20.stl



1-2aa-x24-grid-2x2x5-v20.stl



9V

4 files



9v-x02-grid-1x1x8-v20.stl



9v-x05-grid-2x2x5-v20.stl



9v-x06-grid-2x1x8-v20.stl



9v-x12-grid-2x2x8-v20.stl

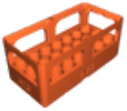


A23

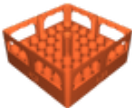
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a23-x09-grid-1x1x5-v20.stl



a23-x21-grid-2x1x5-v20.stl

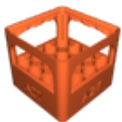


a23-x48-grid-2x2x5-v20.stl



A27

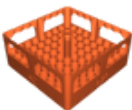
3 files



a27-x16-grid-1x1x5-v20.stl



a27-x36-grid-2x1x5-v20.stl



a27-x80-grid-2x2x5-v20.stl



AA

3 files



aa-x05-grid-1x1x8-v20.stl



aa-x10-grid-2x1x8-v20.stl



aa-x24-grid-2x2x8-v20.stl



AAA

3 files



aaa-x09-grid-1x1x7-v20.stl



aaa-x21-grid-2x1x7-v20.stl



aaa-x36-grid-2x2x7-v20.stl



AAAA

3 files



aaaa-x16-grid-1x1x7-v20.stl



aaaa-x32-grid-2x1x7-v20.stl

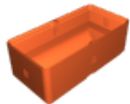


aaaa-x64-grid-2x2x7-v20.stl



B

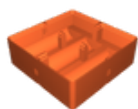
5 files



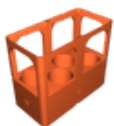
b-x01-grid-2x1x4-v20.stl



b-x02-grid-1x1x10-v20.stl



b-x03-grid-2x2x4-v20.stl



b-x04-grid-2x1x10-v20.stl



b-x12-grid-2x2x10-v20.stl



C

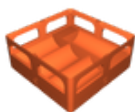
4 files



c-x01-grid-1x1x8-v20.stl



c-x03-grid-2x1x8-v20.stl



c-x04-grid-2x2x5-v20.stl

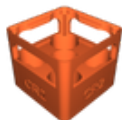


c-x08-grid-2x2x8-v20.stl



CR2

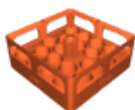
3 files



cr2-x05-grid-1x1x5-v20.stl



cr2-x10-grid-2x1x5-v20.stl



cr2-x19-grid-2x2x5-v20.stl



CR123A

3 files



cr123a-x04-grid-1x1x6-v20.stl



cr123a-x08-grid-2x1x6-v20.stl



cr123a-x16-grid-2x2x6-v20.stl



D

5 files



d-x01-grid-1x1x10-v20.stl



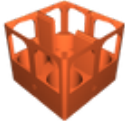
d-x01-grid-2x1x6-v20.stl



d-x02-grid-2x1x10-v20.stl



d-x02-grid-2x2x6-v20.stl



d-x05-grid-2x2x10-v20.stl

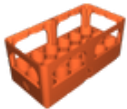


N

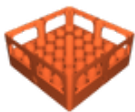
3 files



n-x09-grid-1x1x5-v20.stl



n-x18-grid-2x1x5-v20.stl



n-x36-grid-2x3x5-v20.stl



Experimental

2 files



gb-x06-grid-1x1x4-v20.stl

☐ Holder for GameBoy batteries



gba-x12-grid-1x1x3-v20.stl

☐ Holder for GameBoy Advanced batteries

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