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A protective skeleton for a Bioenno BLF-12045 LiFePo battery.



Prusa MK4

Hobby & Makers > Electronics

\*\*\*\*\*Bioenno appears to vary the actual size of the battery sometimes. This skeleton fits my battery fine but may need to be adjusted in your slicer to fit the dimensions of your battery.\*\*\*\*\*

I often use a smaller 54 watt-hour battery when I take my amateur radio into the field. The battery is “soft side” with no hard plastic case and has what looks like “shrink wrap” on it. I wanted something that was better protection for the corners and edges but didn't add significant weight or bulk to such a small and light battery.

Printed on a Prusa MK4 with 15% infill using Prusament Mango Yellow PETG at 0.2mm layer height, a 0.4mm nozzle and organic supports from the build plate only.

The battery fits snugly into the case and is held in place with two small zip ties. I ran the connector wiring under the zip ties to prevent some potential strain. This may be unnecessary but I don't know what kind of strain relief is under the outer wrapping so it seemed like a reasonable thing to do.

Huge thanks to @ChrisStevens who designed a really great protective case for the Bioenno BKF-1206A LiFePo battery. I was able to alter the dimensions in PrusaSlicer to accommodate the BLF-12045W battery.

## This remix is based on



### Bioenno BLF-1206A Case

by Chris Stevens

## Model files



**blf-12045-case.3mf**

## Print files



**blf-12045-case\_04n\_02mm\_petg\_mk4\_3h57m.gcode**

 PET  0.40 mm  0.20 mm  3.94 hrs  43 g  Prusa MK4



**blf-12045-case\_02mm\_petg\_mk3s\_4h31m.gcode**

 PET  0.40 mm  0.20 mm  4.52 hrs  42 g  Prusa MK3/S/S+



## blf-12045-case\_04n\_02mm\_petg\_mk4is\_2h49m.gcode

PET 0.40 mm 0.20 mm 2.82 hrs 46 g Prusa MK4

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