



Makita battery adaptor + XT60 + OBI



Yanev

[VIEW IN BROWSER](#)

updated 5. 12. 2025 | published 5. 12. 2025

Summary

Makita 18v LXT battery adaptor

[Hobby & Makers](#) > [Tools](#)

Tags: [battery](#) [adapter](#) [xt60](#) [makita](#) [batteryholder](#)
[makita18v](#) [batterymakita](#) [lxt](#) [obi](#) [makitaobi](#)
[openbatteryinformation](#)

Parts are print oriented with no support. Only OBI Cap 2colors is not print oriented.

It need 1pc M3x16mm and original connector 643852-2 (3,5 euro from Makita).

Fusion360 file can be use to modify the model or import in other projects.

Added:

Extensions for 3A switch (10x15mm) and 6A switch (21x15mm).

New F360 file with greater tolerances for printing with PETG.

Added: XT60 Cap

It need standard XT60 connector + XT60 pcb both from Ali express

Added: OBI Cap

Full information can be found in Github <https://github.com/mnh-jansson/open-battery-information>

Cap is for Arduino Nano.

It need Makita original connector 638847-8 from battery chargers DC18RC, DC18RA or DC18SC and probably other models.

Also, the original charging cable of the connector can be brought out to charge with external power supply and monitor the individual battery cells with OBI.

Both caps require 4 pcs M3x12mm + M3 heat inserts

Added: OBI Printed connector to replaced original 638847-8 with cables from Ali express (see last three pictures). Need support from build plate.

Connector:

https://www.aliexpress.com/item/1005004795989881.html?spm=a2g0o.order_list.order_list_main.184.45bb1802dKE82M

Male terminal 6.3mm, 24mm long

https://www.aliexpress.com/item/1005002117428540.html?spm=a2g0o.cart.0.0.2c9e38daUXkDRu&mp=1&pdp_npi=5%40dis%21BGN%21BGN%204.72%21BGN%2

Model files



battery_18v_makita_r.3mf



battery_18v_makita_l.3mf



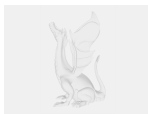
switch_3a_ext.3mf



switch_6a_ext.3mf



xt60-cap.3mf



battery-adapter-makita-ii-cap.f3d



battery_18v_makita_l_obi.3mf



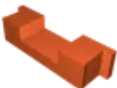
battery_18v_makita_r_obi.3mf



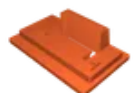
obi_cap.3mf



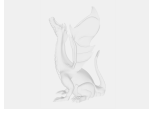
obi_cap_2colors.3mf



obi_nano_clip.3mf



battery_18v_makita_obi_plate.3mf



battery-adapter-makita-ii-cap-obi.f3d

License

This work is licensed under a
Creative Commons (4.0 International License)



Attribution-ShareAlike

-
- ✗ | Sharing without ATTRIBUTION
 - ✓ | Remix Culture allowed
 - ✓ | Commercial Use
 - ✓ | Free Cultural Works
 - ✓ | Meets Open Definition