

2x MNT Reform Protected Battery Board

Dear MNT Customer,

thank you for purchasing the MNT Reform Protected Battery Board. We hope you will enjoy it.

Assembly

Please refer to the MNT Reform Operator Handbook for instructions on how to mount and connect the Protected Battery Boards in your laptop:
<https://mntre.com/reform2/handbook/parts.html#battery-packs>

Operation

The Protected Battery Board is a drop-in replacement for the standard Battery Board in MNT Reform. The difference is that each cell is protected by a chip that monitors the cell voltage and current. The chip connects the cell to the circuit only if it operates within safe limits.

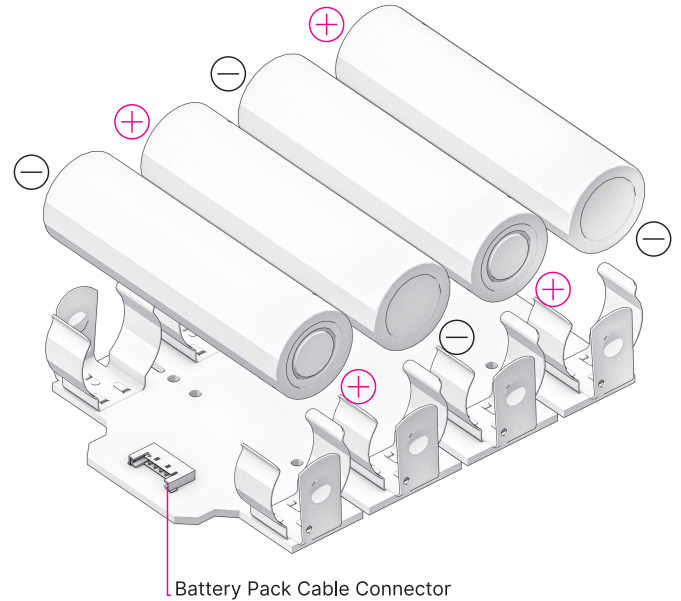
If you have two Protected Battery Boards installed in your MNT Reform, all cells will be protected from deep discharge during long-term storage of the device. The protection chips will disconnect their cell when the voltage drops below ~2.1V and reconnect if it rises above ~2.4V. Recharging the cells through the protection is possible as long as the cells are not damaged/shorted.

Safety Instructions

- Only use LiFePO4 cells with MNT Reform!
- Ensure that positive and negative poles are facing in the correct direction!
- Avoid working with metal tools when battery cells are installed!
- Do not bridge/short any battery clips to the case or neighboring clips or pins!

Warranty

MNT Research covers the warranty to the extent required by law for the unmodified product and following the safety instructions. Warranty does not cover any modifications made to the product.



The product complies with the requirements of the European Directives and DIN standards:
EMC Directive 2014/30/EU (EN 55032:2015/A11:2020, EN 55035:2017/A11:2020)
Low Voltage Directive 2014/35/EU (EN 62368-1:2014)
RoHS Directive 2011/65/EU (EN 63000:2018)



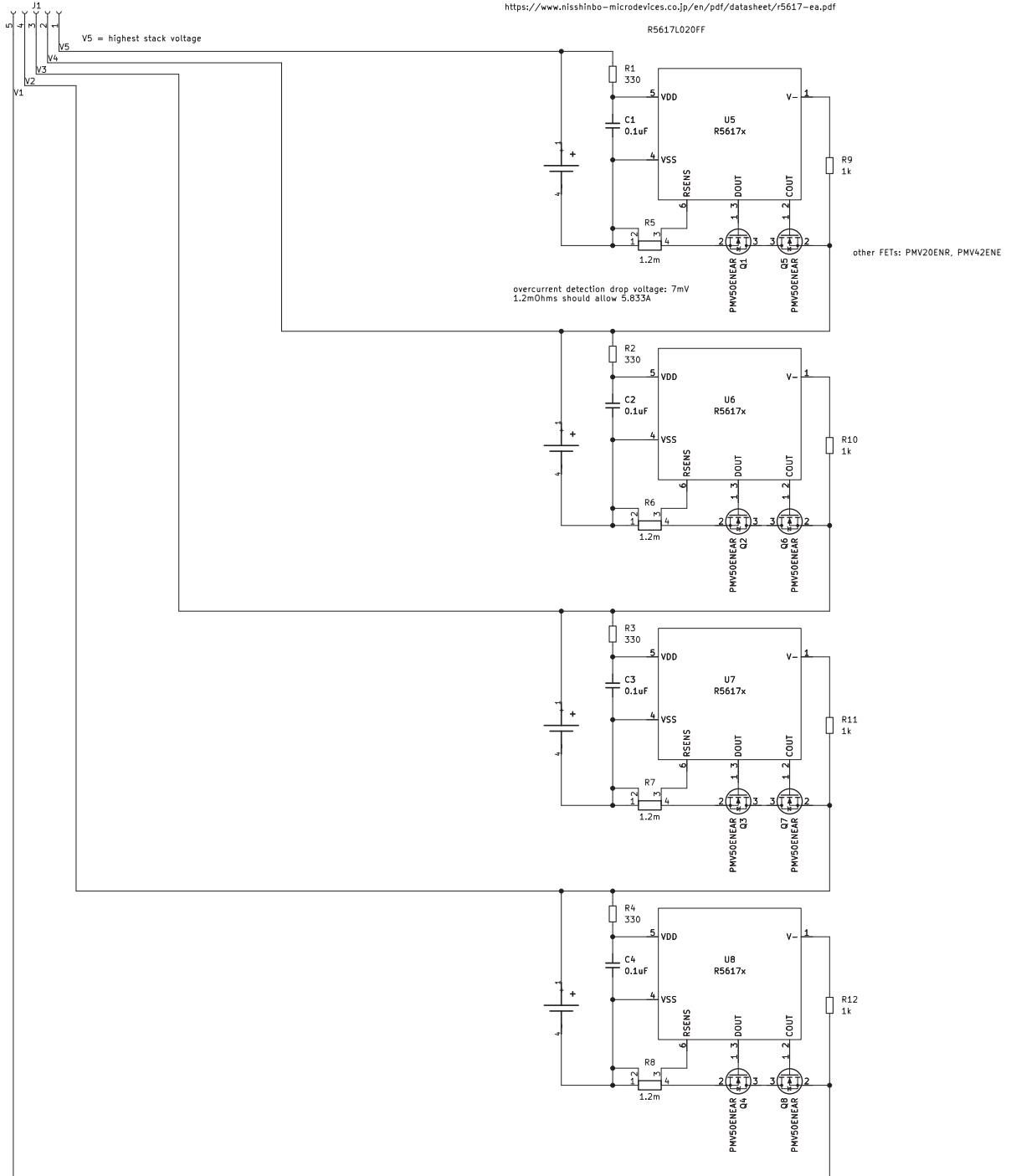
Get updates and source code at: mntre.com/reform

Need help? Join community.mnt.re or write to support@mntre.com

Join our IRC channel [#mnt-reform](https://irc.libera.chat) on: irc.libera.chat

Connector pinout is flipped in respect to motherboard pinout!

<https://www.nisshinbo-microdevices.co.jp/en/pdf/datasheet/r5617-ea.pdf>



- H5 MountingHole
- H6 MountingHole
- H7 MountingHole
- H8 MountingHole
- H1 Badge



<https://mntre.com>

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MNT Research GmbH

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File: reform2-protected-battery-pack-pcb.kicad_sch

Title: MNT Reform Protected Battery Pack

Size: A3

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