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Case for DC-Boost 12V-24V

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Located at: <http://www.youmagine.com/designs/case-for-dc-boost-12v-24v>

Short description:

2-part case for 12V -> 24V DC boost circuit.

Description:

2-part case for 12V -> 24V DC boost circuit (ebay 271416568548). I'm using this to take 12V battery power and drive 24V into a PoE remote camera setup (too much cable loss to work directly at 12V) but I needed a case for the bare PCB assy from ebay. Tested at 24V @ 1 A output, where it is 88% efficient and doesn't get even slightly warm. There is one slight mod needed: the green terminal block has a small ridge at one side I didn't model, which interfered with the plastic sidewall which is a tight fit even without the ridge. I fixed that quickly with some sidecutters. Maybe I'll add that notch to the case for v2 if I get around to it. This design includes a cutout under the terminal block for the input and output wires I soldered there (more reliable than screw connections). --- Assembles with 4x M3 x 25mm screws, mine are Pololu #1077 and the threaded part measures 24.8 mm. Any length over 25.0 mm will not work properly.

If you can, please use the online documentation found at <http://www.youmagine.com/designs/case-for-dc-boost-12v-24v> because those may have been updated. Also, there you can interact and provide praise and/or feedback.