

DC-DC Boost Converter 8~32V to 45~390V High Voltage Charging Booster Module 40W

eBay description:

High Voltage Boost Module

Module Properties: Non-isolated step-up module

Input Voltage: 8~32V input (the default is 10~32V input.)

Input Current: 5A (Max)

Quiescent current: 15mA (12V to 50V, the current will increase for higher output)

Output Voltage: +45~390V continuously adjustable (default output 50V)

Output Current: 0.2A Max (the higher the output voltage, output current is smaller)

Output Power: 40W (Peak 70W)

Working Temperature: -40 ~ + 85 degrees (ambient temperature is too high, please enhance heat dissipation)

Operating frequency: 75 KHz

Conversion efficiency: up to 88% (efficiency and input and output voltage, current, pressure-related)

Short circuit protection: Yes.

Over current protection: Yes. (Input current exceeds 4.5A, reducing the output voltage)

Over voltage protection: Yes. (Output voltage exceeds 410V, lowering the output voltage)

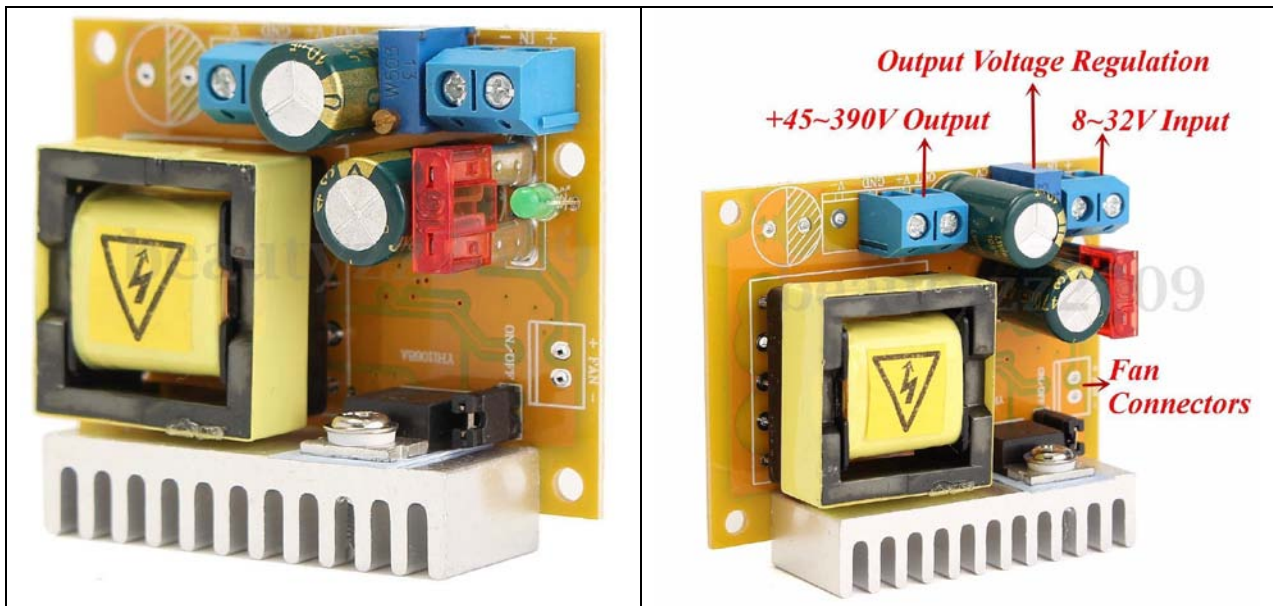
Input reverse polarity protection: Yes (non-self-healing, reverse burning fuse, try not reversed.)

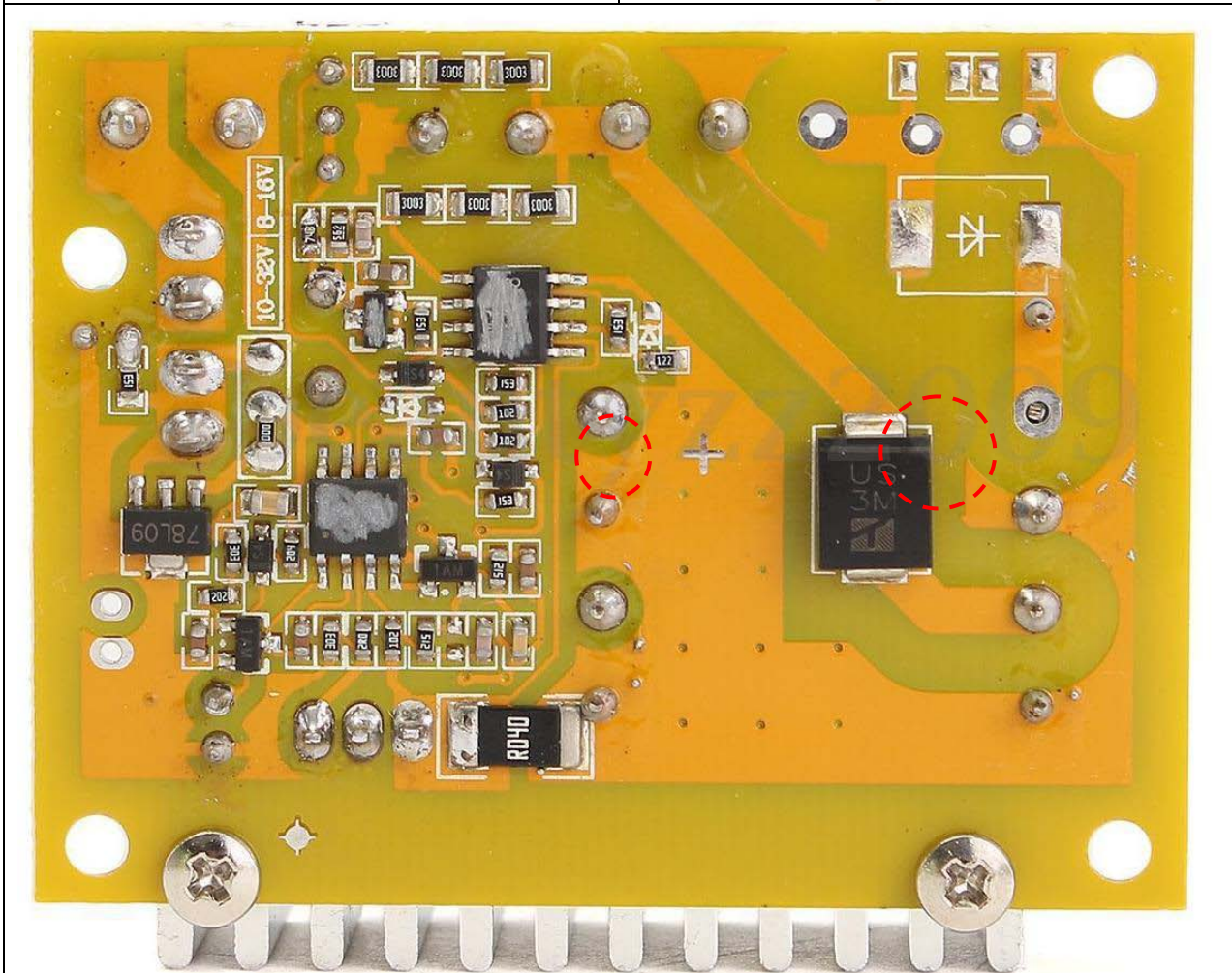
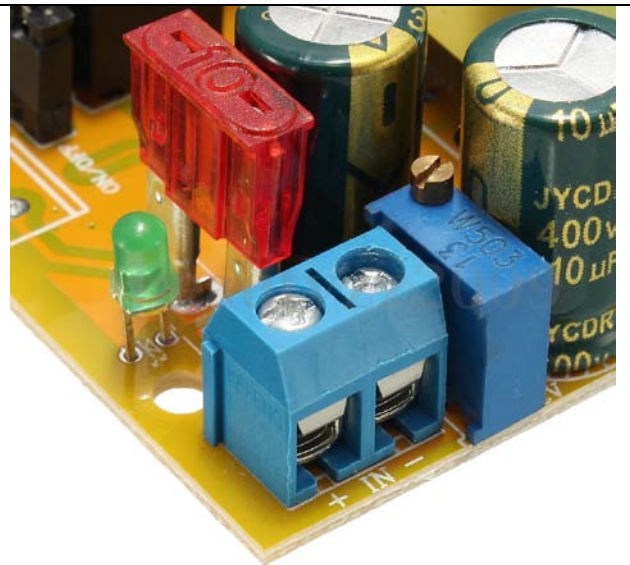
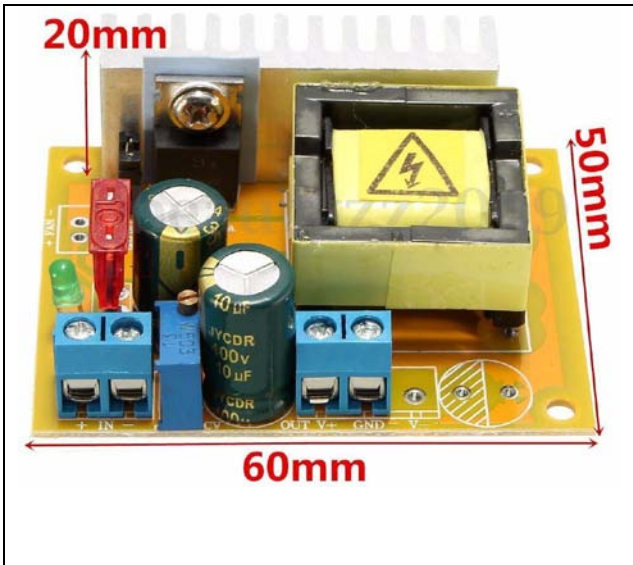
Installation: Four 3 mm screws

Wiring: free wire output terminals

Size(L*W*H):60 x 50 x 20 mm

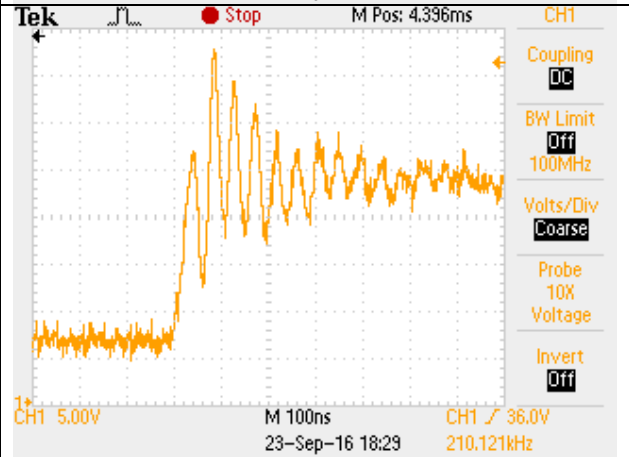
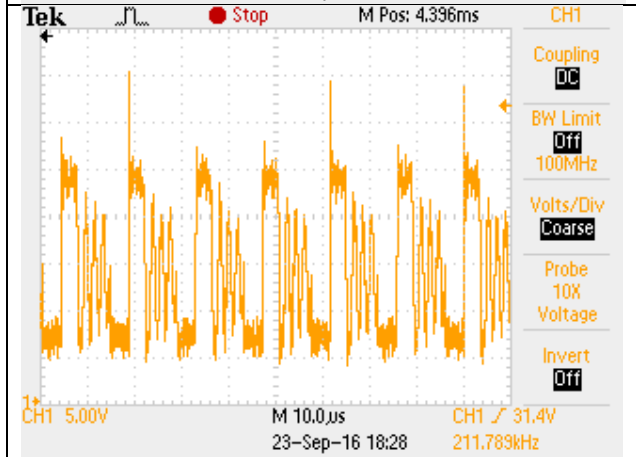
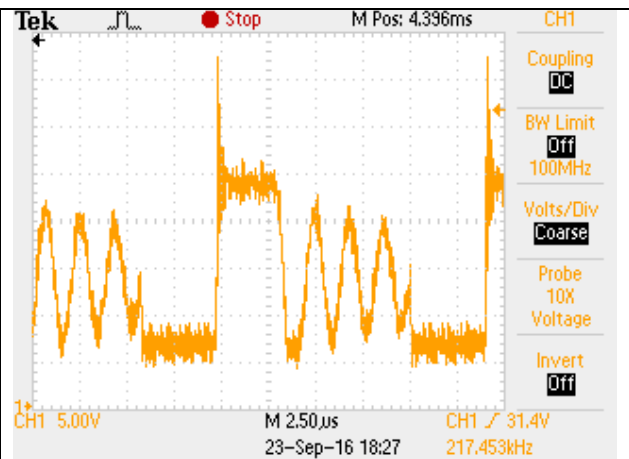
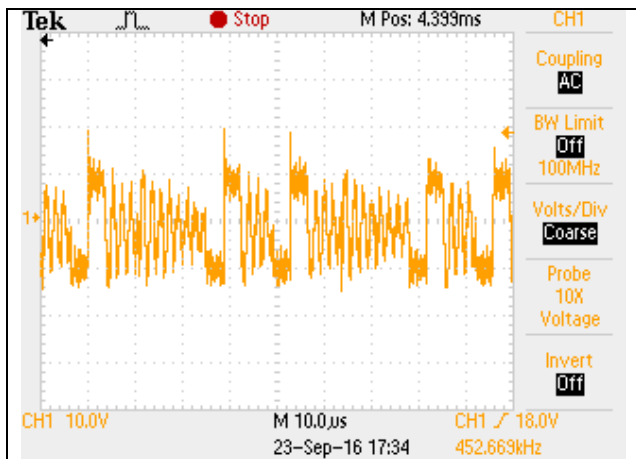
Measured idle power approx. 0.5W for 250V output, and 1W for 380V output. Measured switching frequency about 71kHz. Output voltage control includes pulse skipping and burst mode (? ripple can jump around and move between modes). PCB and transformer wired for bipolar output – but transformer pin cut, and negative output parts not loaded – negative output is not regulated. Fan output just connected to input voltage. Heatsink is floating.

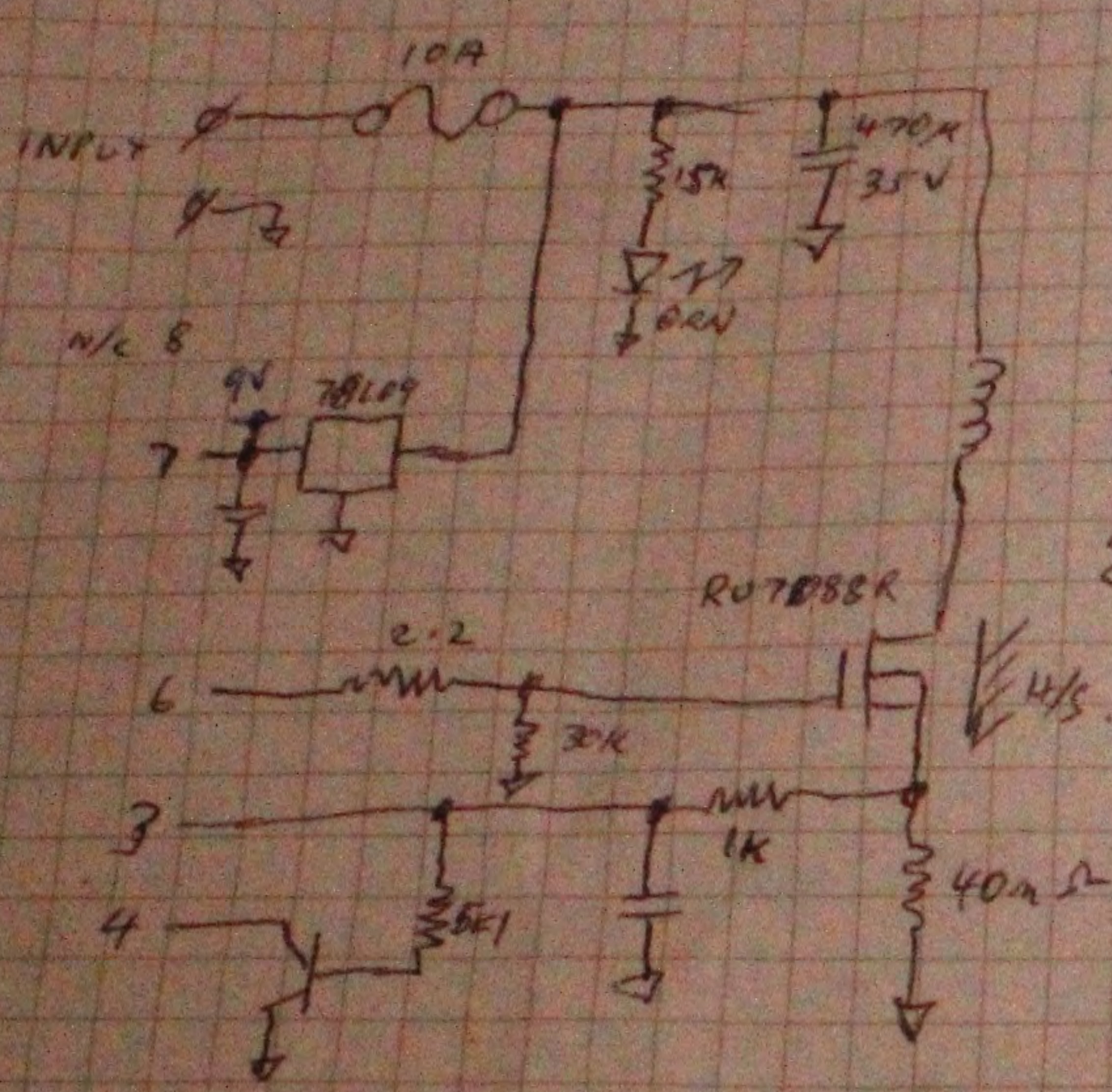




Modifications

Smt caps added to rear side for bypassing each rail/electrolytic to minimise loop area.





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