

12v inverter modification power supply



Overview

Nearly all Chinese-made power supplies of this type I've come across have had very poor heatsinking of the various power semiconductors - transistors, diodes etc. Little care is taken to ensure good thermal contact with the metal casing, so I always strip the supply down, check the. I'm currently working on a product which uses a size 2430 "hobby" brushless motor and 25A electronic speed controller (ESC). In its "intended" use. The model numbering scheme for these supplies appears to be S-AAA-BB, where AAA is the power rating in watts and BB is the output voltage. For this application, I've used an S-400-12. This is a pretty bog-standard circuit. Fuse, common-mode choke, filter capacitors to block/absorb any HF interference, the a full-wave bridge rectifier and two smoothing caps. Note that C2 and C3 are in series - this is so the midpoint can be used as a voltage at. First task - get the main PCB out, scanned/photographed, traced, and a circuit drawn. My procedure was roughly the following (all.

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12v inverter modification power supply

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