

155-PCA/PCB Application Notes

- 1) Recommended transformer secondary rating for continuous 5 Amp operation is 26 VCT at 7.5 A. The transformer secondary connects to pads T1, T2 and T3. **CAUTION** much higher voltage results in much higher heat dissipation in the pass transistors.
- 2) The ammeter is not required for proper operation. If you choose to use an ammeter, a direct reading (or very low resistance shunt) ammeter is required. If you do not use an ammeter, be sure to connect pad 6 (near D1) and the + pad (near D2) to the output fuse.
- 3) All three LED's are optional and not required for proper operation. The RED LED indicates FINAL CHARGE. The GREEN LED indicates CHARGING. The unlabeled LED indicates the presence of DC voltage, normally only used when the circuit is not powered from AC input.
- 4) The pass transistors (Q1a and Q1b) **MUST BE HEAT SINK MOUNTED**. These transistors connect to the board at pad 4 to the COLLECTORS, pad 5 to the EMITTERS and the B pads to each BASE.
- 5) The circuit must connect directly to a battery for proper operation. The Ra, Rb and Rc sensing networks must read the battery voltage. **DO NOT** add any voltage dropping items (other than an output fuse) in series with the output.
- 6) INPUT (PRIMARY) FUSE = 2 A fast blow. OUTPUT FUSE = 8 A fast blow
- 7) Recommend vertical mounting with fan blowing downward. Runs when current exceeds 1 A.
- 8) The board measures 3.7W X 3.4L X 2.0H inches.
- 9) Pass transistors and mounting hardware are included with the 155-PCA (assembled board).

