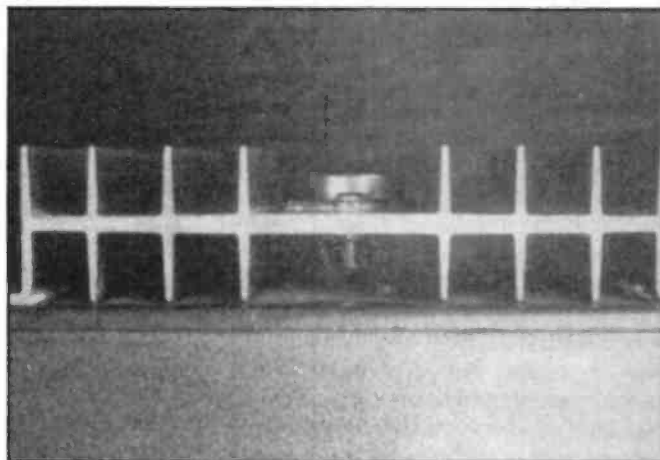


Inside of PSU



IC1 is mounted on heatsink. C5, C6, R3 and R4 are mounted on i.c. pins, in space between heatsink and lid of box.

COMPONENTS LISTING

R1	1k ½ watt
R2	0.47R 5 watt
R3	see table 1- ½ watt
R4	see table 1- ½ watt
R5	47R ½ watt
R6	see table 2- ½ watt
C1,C2,C3	4700µF, 40V
C4,	10µF, 25V tant.
C5,	0.22µF 100V poly.
C6,	0.47µF 100V poly.
C7,	0.22µF 100V poly.
S1,S2	S7101 SPDT miniature toggle.
IC1	78HGKC
IC2	7805
Q1	2N6397 or similar high current triac (12A)
Br1	200V 6A bridge rectifier
Z1	see table 1 — 400mW zener diode
T1	ILP Toroidal transformer, 120VA, 18V + 18V (12V + 12V if only 6V outputs required)
L1	100µH 1A (Siemens B82111EC25)
L2	120µH 2A (Siemens B82500BA10)

Case, 4 × 20mm plastic chassis mount fuseholders — fuses to suit loading, Heatsink (2.1°C per watt heatsink eg Electrovalue 10DNA), miniature tag strip, 2 small pieces copper laminate, Nuts and bolts, capacitor clips, rubber feet, grommets. Connecting cable.

All parts are available from Electrovalue, 28 St Judes Road, Englefield Green, Egham, except R2, which is available at Tandy stores.

The transformer may seem very generously rated, but needs to satisfy peaks of current, and maintain sufficient input to regulators. It also helps it to run cool.

