Icom

IC PS-125

Service Manual

Brief operational description of the Icom PS-125 power supply

A. Primary DC supply

1. AC input voltage is applied through the AC switch, to input fuse F-1 and filters IF1, IF2, and associated capacitors C1-5, C24 & C25, through R-2 to the primary rectifier array D-1. Triac Q-1 that is connected across R-2 conducts once the switching supply starts, thus limiting the voltage drop across R-2. A movable jumper from D-1 to the junction of C-9 & C-10 configures the primary supply for 110-volt operation as a voltage doubler. For 220-volt operation, this jumper is not connected. The +310 volt DC output voltage of D1 is connected through L2, & D2 to series connected electrolytic capacitors C-9 & C-10 which filter the DC output voltage of D-1.

B. Switching supply

1. The output of the primary 310V DC supply is now applied to series connected power FETs Q4 & Q5 and the primary of high frequency transformer T-1. Switch mode controller IC, HIC-1, drives the gates of Q4 & Q5. Upon initial power application, Q4 or Q5 will conduct first, thus causing an ac output voltage on all secondary windings of T-1. The voltage of T-1 pins 7 & 8 is rectified by D-8, regulated by D-9 & Q-6 and applied to HIC-1 pin 12 (vcc) to operate HIC-1. The voltage from T-1 pins 9 &10 is rectified by D23, & filtered by C40 to supply voltage for all IC's and transistors except HIC-1. HIC-1 now begins operating and alternately drives Q4 & Q5 at a high AC frequency.

C. Secondary DC supply

- 1. T-1 secondary windings pins 12 & 13, 16 & 17, 14 & 15, 10 & 11 and fast recovery diodes D 21 & D22, along with electrolytic capacitors C31,32,33.34.& 35 form the 25 amp 13.8 volt DC output supply. The output is applied to the output terminals through L-12 & L-13.
- 2. The 13.8 Volt DC output is sensed via R-58 to the base of Q-11, the collector of which drives opto- isolator PC-1. Adjustment of VR-11adjusts the base voltage of Q-11 thus establishing via HIC-1, the power supply DC output voltage.
- 3. IC-11 pins 1, 2, & 3 sense the voltage drop across R-31 & R-32 via VR-12 and R-44, to establish via the adjustment of VR-12, the maximum output current limit.
- 4. Zener diode D-26, Q13, R-48, R-49, PC-2 and associated components detect an over voltage condition of the 13.8 volt supply output.
- 5. IC-11, pins 5,6, & 7, Q-14 & associated components sense temperature rise inside the supply via Thermistor R54 which touches power transformer T-1 and turns on the fan as appropriate.

PS-125 parts list

Q1 TM1641S-L Triac 1 Q2 2SC4002 NPN transistor 1 Q3, 12 DTC 114E digital transistor 2 Q4, 5 FS22SM-9 Power Mosfet transistor 1 Q6 2SC3246 NPN transistor 1 Q13 2SA733 PNP transistor 1 Q11,14 2SC945 NPN transistor 2 HIC-1 MB 2013A switching controller IC 1 IC 1 S80745 1 IC 11 LM2904 dip op amp 1 IC 12 LM 431 precision regulator 1 PC 1, PC 2 PS2561 opto isolators 2 D1 R8V1506 Bridge rectifier 1 D2 FMN-G12S 200V 5A fast recovery diode 1 D3,25,26 15 volt ½ w zener diode 3 D4,5,6 ISS270A diode 3 D24 7 volt zener diode 1 D21 KCQ60A04 fast recovery diode 2 ER 1 RS 270-1055 or 270-1054 R2 ERU5TAK6R8 1.6 W fuse resistor 1 Panasonic <th>Item</th> <th>Description</th> <th>Qty ea.</th>	Item	Description	Qty ea.
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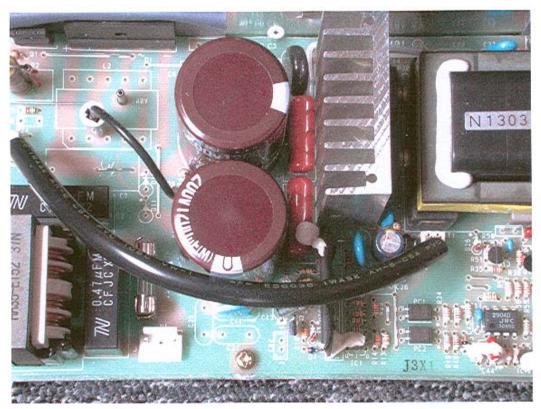
Note: VR-11 adjusts Output Voltage VR-12 adjusts Output Current

Icom IC PS-125 Service Manual



Authors: Lawrence Young, K4LXV, Dick Knol PA3DUV

Icom IC PS-125 Service Manual



110-220 V jumper detail

Icom IC PS-125 Service Manual



Authors: Lawrence Young, K4LXV, Dick Knol PA3DUV

