Mains Transformer

Type: 29V-150VA-DW-49F5081

http://www.casa.co.nz
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General Data

Brand: Eniak San Juan (Argentina)
Model: PN 49F5081
OEM: PN 49F5081 (IBM)

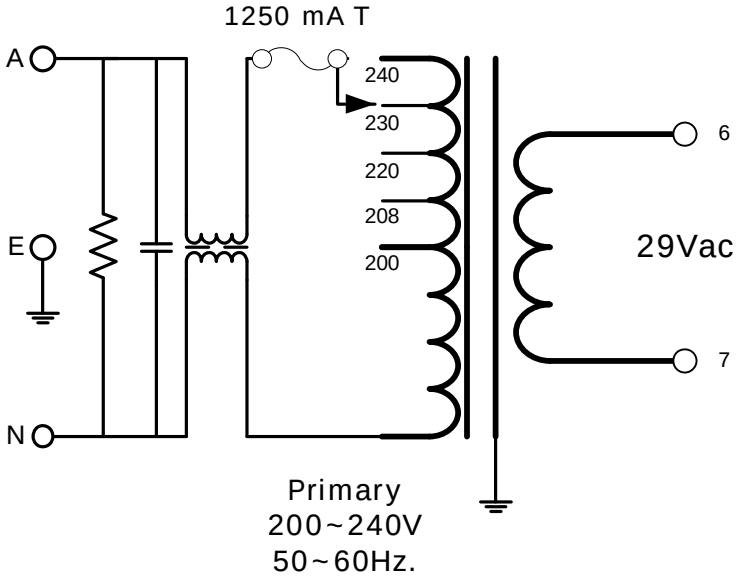
Input: 200~240Vac 50~60Hz (multi-tapped)
Output: 29 Vac
Current: 5.1A (estimated)
Power: 150VA (estimated)

Size: 100 x 84 x 84mm (nominal LxWxH)
Weight: 3.24 kg
Fixing: Mounting plate

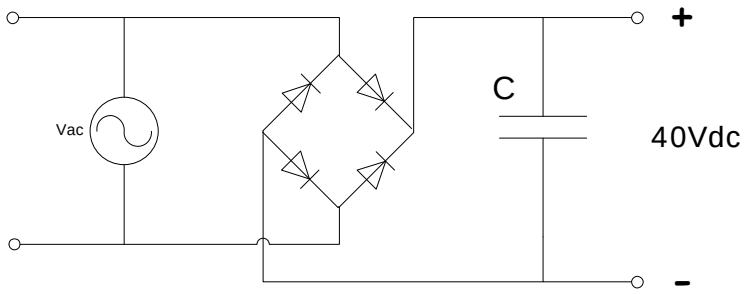
Condition: as removed from de-commissioned printers

Comments: Has double pole switch in primary.

49F5081



Optional Rectifier Assembly



Basic Un-Regulated DC PSU – Quick Calculator

C = (I x 80,000) / Vdc
Using 29V winding (3.75 x 80,000) / 40 ~7.500uF

C = Capacitor in microFarads
I = Current (output) in Amps
Vdc = Volts (output)
Vac = input Volts from transformer

From example above – ***if P = 150VA***:
I = P / Vdc = 150 / 40 = 3.75 Amps
P = Power of load (or transformer) in Watts (VoltAmps)
Vdc = Vac x 1.4 (using a full-bridge rectifier)
NOTE – these approximations exclude copper losses etc. in the transformer and external wiring