

# Mains Transformer



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12345-wizard.com

Type: **900V~580V-580mA-DW-WIS5697**

**Brand:** Marconi (UK)

**Model:** WIS5697/B Sht. 196

**Input:** 230Vac 45~55Hz (multi-tapped as per schematic)

**Output:** 900-820-740-660-580 (+ 20/40/60 adj) @ 580mA

**Power:** 500VA (estimated minimum *continuous* rating)

**Size:** 220x182x150mm (inc. feet)

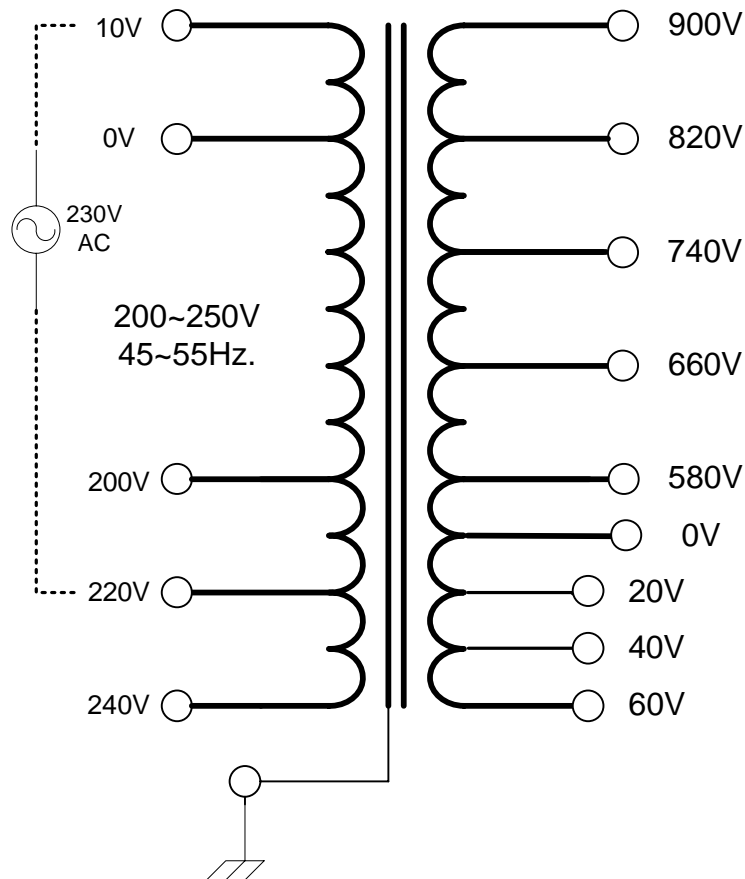
**Weight:** 12.9kg

**Fixing:** 4 x 6mm holes @ 150 x 90~105mm centres (nominal)

**Condition:** some NEW (spares-stock) and some re-furbished.

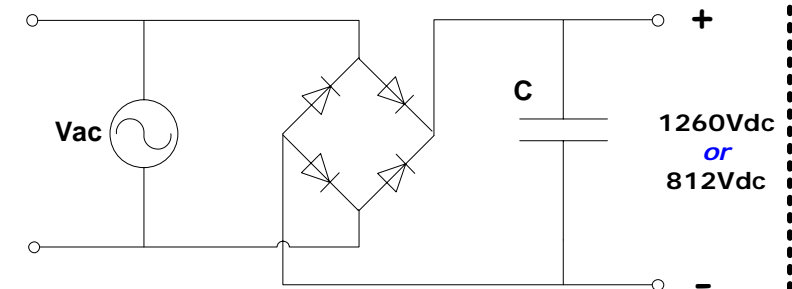
**Comments:** A choke input filter will significantly reduce the required value of "C" - we may have chokes in stock - please enquire

WIS5697/B



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## Optional Rectifier Assembly



## Basic Un-Regulated DC PSU – Quick Calculator

$$C = (I \times 80,000) / V_{dc}$$

$$(0.5 \times 80,000) / 1260 = 32\mu F$$

or

$$(0.5 \times 80,000) / 812 = 50\mu F$$

C = Capacitor in microFarads

I = Current (output) in Amps

V<sub>dc</sub> = Volts (output)

A choke input filter will facilitate significant reduction in the required value of "C" as calculated above.

P = Power of load (or transformer) in Watts (VoltAmps)

V<sub>ac</sub> = input Volts from transformer

V<sub>dc</sub> = V<sub>ac</sub> x 1.4 (using a full-bridge rectifier)

Two or more identical transformers may be series-parallel arranged for higher currents and/or voltages (phasing observed)

NOTE – these approximations exclude copper losses etc. in the transformer and external wiring