

Mains Transformer



Type: **30V-CT-250VA-DW-080-37050-01A** <http://www.casa.co.nz>

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Not registered

General Data

Brand: NA (Japan)

Model: 080-37050-01A

OEM: 080-37050-01A

Input: 200~230Vac 50~60Hz
(tapped)

Output: 15V-0-15V @ ~8.0
Amps (Open circuit) +29V @ 1A

Power: 250VA (estimated)

Size: 114x110x97mm

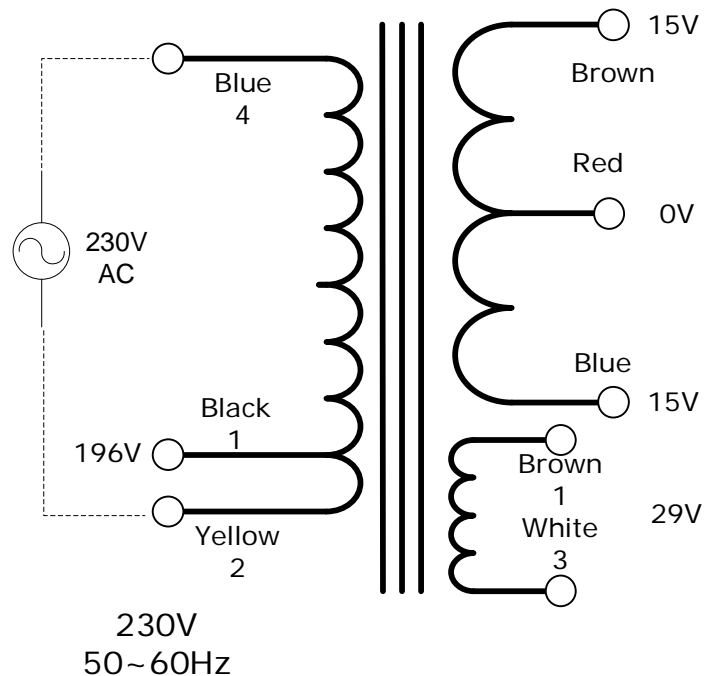
Weight: 3.9kg

Fixing: 4x6mm holes 95x75mm
centres

Condition: used/refurbished - as
removed from operational UPS.

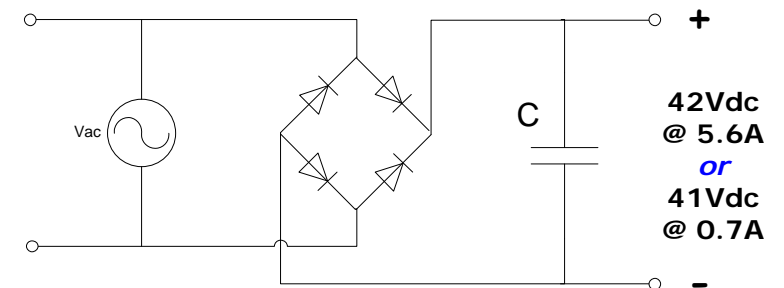
Comments: 1kVA UPS inverter
transformer. (Mustek?)

080-37050-01A



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Optional Rectifier Assembly



Basic Un-Regulated DC PSU – Quick Calculator

$$C = (I \times 80,000) / V_{dc}$$
$$(5.66 \times 80,000) / 42 = \sim 10,800\mu F$$

or

$$(0.7 \times 80,000) / 41 = \sim 1,370\mu F$$

C = Capacitor in microFarads

I = Current (output) in Amps

V_{dc} = Volts (output)

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

V_{ac} = input Volts from transformer

V_{dc} = V_{ac} 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