

# Mains Transformer – C-Core



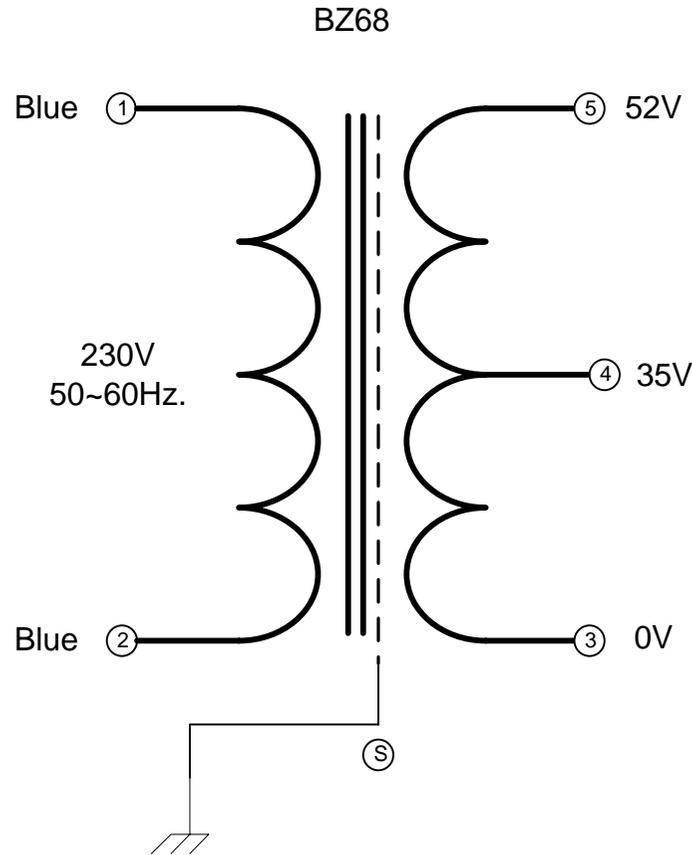
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Type: **52V~35-8A-DW-BZ68**



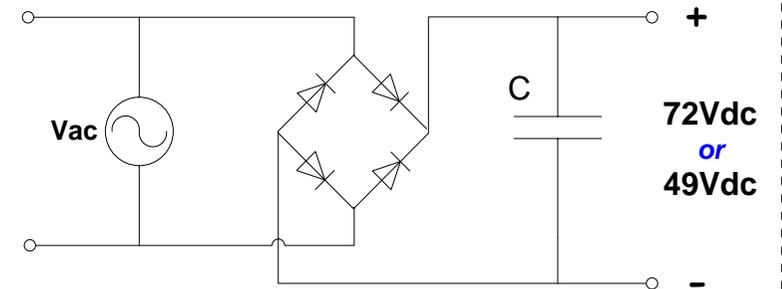
- Brand:** Teleco (NZ)
- Model:** BZ68
- OEM:** SL184-23 (TVNZ)
- Input:** 230Vac 50Hz (tapped)
- Output:** 35~52V @ 8A
- Power:** 416VA (calculated)
- Size:** 150 x 140 x 115mm
- Weight:** 6.17kg
- Fixing:** 4 x M5 holes @ 90 x 64mm centres (nominal)
- Condition:** NEW (in makers original paching - typically as represented in the images)

**Comments:** electrostatic screen terminates in a copper strap 9.5 wide x 25mm long



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## Optional Rectifier Assembly



## Basic Un-Regulated DC PSU – Quick Calculator

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

$$(8 \times 80,000) / 72 = 10,000\mu F (8,888\mu F)$$

*or*

$$(8 \times 80,000) / 49 = 15,000\mu F (13,061\mu F)$$

C = Capacitor in microFarads  
I = Current (output) in Amps  
Vdc = Volts (output)

P = Power of load (or transformer) in Watts (VoltAmps)  
Vac = input Volts from transformer  
Vdc = Vac 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