

Constant Voltage Transformer (CVT)

250VA-45kVA

Main Features

- Stable output voltage
- Very fast correction time
- Transient/Spike suppression
- Sinusoidal output waveform
- Galvanic isolation
- Reduces mains harmonic distortion
- Rugged and robust (High MTBF)
- 110/230/400V models in stock
- Automatic overload current limiting
- Accepts up to 30% input voltage swing
- R.F filtering
- Ferro-resonant principle
- Low installation cost
- Easy to install



The main feature of all Constant Voltage Transformers (CVT) models is the ferro-resonant principle of operation, proven to be the effective way to cure the problems of mains interference and irregular voltage.

A CVT incorporates an isolation transformer, mains harmonic filter, an RF filter and an automatic voltage regulator all in one and offers the following benefits:

Transient Suppression	Voltage Stabilisation
Mains Distortion Removal	Automatic Overload Protection
Micro Interruption Protection	No More 'Clean Line' Cost



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SPECIFICATIONS

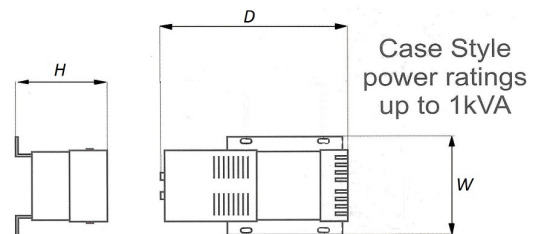
50Hz

Model	Power	Input (V) ± 15%			Output (V) ± 3%				Dimensions (mm)			Weight (kg)
		110	230	400	110	220	230	240	H	W	D	
250i	250VA	•	•		•	•		•	135	215	240	8
500iS	500VA	•	•	•	•		•		167	230	330	15
1000i	1000VA	•	•		•	•		•	135	215	345	22
1000iS	1000VA	•	•	•	•		•		167	230	390	24
1000i/400	1000VA			•	•	•		•	135	215	345	22

60Hz

Model	Power	Input (V) ± 15%			Output (V) ± 3%		Dimensions (mm)			Weight (kg)
		110	220	230	110	220	H	W	D	
500i/60Hz	500VA	•		•	•	•	135	215	240	13
500iS/60Hz	500VA	•	•		•	•	167	230	330	15
1000iS/60Hz	1000VA	•	•		•	•	167	230	390	24

- Output Voltage Regulation: ± 3% at nominal linear load (PF=1)
- Automatic current limiting: approx. 200% full load
- Output waveform distortion (THD): ≤ 3% rated load
- Filtering/noise rejection: 60dB normal mode; 120dB common mode
- Construction: monobloc
- Insulation: Class H
- Ambient temperature range: -10°C to +40°C
- Protection: IP 20



Other models are available to order.

Power Rating	Dimensions h x w x d (mm)	Weight
100VA	190 x 146 x 185	7.5kg
250VA	190 x 185 x 230	12.5kg
450VA	210 x 185 x 250	18kg
650VA	210 x 185 x 280	23kg
1kVA	210 x 185 x 320	32.5kg
1.6kVA	290 x 268 x 400	36.5kg
2kVA	290 x 268 x 500	63kg
2.5kVA	290 x 268 x 500	72kg
3kVA	455 x 405 x 637	89kg
4kVA	455 x 405 x 637	100kg
5kVA	610 x 405 x 637	132.5kg
7kVA	610 x 405 x 637	168kg
8kVA	765 x 405 x 637	194kg
10kVA	765 x 405 x 637	202kg

The customer to specify:

- Input voltage
- Output voltage
- Operating frequency

Delivery time is generally two weeks.

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