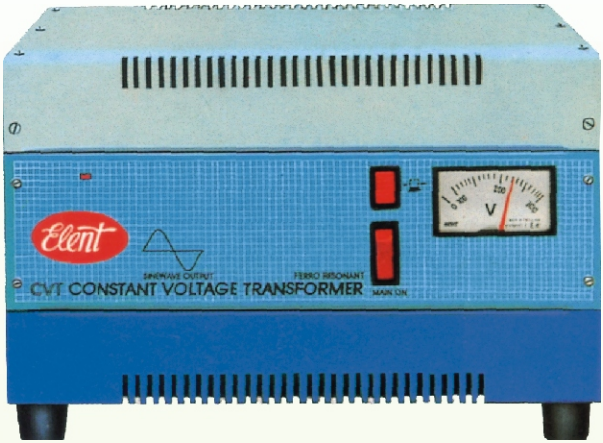
State-of-the-art



Constant Voltage Transformer

In an Elent CVT, the AC mains powers the input winding which is widely separated physically from the isolated output winding. The input winding normally runs at very moderate Flux linkage levels. The output winding exhibits an intrinsic energy storage characteristic and this energy storage operates in conjunction with mains capacitor to produce self-generated AC flux field which is indirectly excited from the input winding.

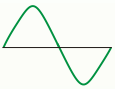
The result is instantaneous voltage regulation.
No transient and spikes. Sinewave output.
A perfect answer and remedy for every electronic equipment.

- No semiconductor or moving part used, hence very high reliability
- No feedback control used
- Intrinsic current limiting and short circuit protection
- Output voltage correction within 1/2 cycle (10ms) from no load to full load for specified load and line variation
- Short term over load capacity
- Energy storage for line loss up to 3 ms at typical load
- Higher input voltage control range, for loads less than rated load
- Very high line transient/spike rejection capability and excellent Isolation characteristics
- Output floating (optional)

Elent

Elent Constant Voltage Transformers ensure
total protection of your sensitive electronic equipment
by allowing only stabilized and pure sinewave power.

Mains power supply 



after correction by Elent CVT

Specifications

• Input Voltage	:	180V-260V (other choices on request)
• Line Frequency	:	50 Hz
• Output Voltage	:	220/230 ± 1%
• Output Steploaded response	:	2 cycles (30 to 40 milliseconds)
• Efficiency	:	90% (approx) under full load conditions
• Output Waveform	:	Sinosidal
• Waveform Distortion	:	5% (approx) under full load conditions
• Load Power Factor	:	0.75% lag to 0.9% lead
• Ambient Temperature	:	-5°C to 50°C
• Transformer Type	:	Ferro-Resonant
• Effect of Frequency	:	1.6% (approx) change in output voltage for every 1% change in line frequency

Range

Elent CVT is available in a wide range ... from 50 VA to 10,000 VA with
load test conducted at unity power factor for all ratings.
For configurations other than those mentioned above, please contact our office.

Fields of Application

Computers, Data Processing equipment, Colour Photography Labs.,
Bio-medical equipment, PA equipment, Telecommunication, TV, VCD/DVD recorders
& players, Teleprinters, Fax machines and all other sensitive electronic devices.

Recommendations

• Keep magnetic storage and display devices like Diskettes, Spools, Monitors etc. away from the CVT.
• Switch on the CVT before switching ON the attached peripherals and while switching off, switch OFF attached peripherals first and then the CVT.
• Avoid using the CVT for high inductive loads.
• Check frequency before using the CVT with a generator.
Recommended frequency: 50± 1Hz
• Switch OFF the CVT when not in use.

Specs. subject to change without notice

ELECTRONIC ENTERPRISES

67 DSIDC Complex, Okhla Industrial Area, Phase I, New Delhi 110020
Tel.:41616509, 26811774 Fax: 41018608
E-mail: elent@vsnl.com Website: www.elent.in

An ISO 9001 certified company