

PUREVOLT

CONSTANT VOLTAGE TRANSFORMER (CVT)

THINK WHATS BEHIND YOUR **power** STABILITY

SALIENT FEATURES

No semiconductor or moving part used, hence very high reliability.

■ *No feed back control used.*

■ *Intrinsic current limiting and short circuit protection.*

■ *Energy storage for line loss up to 3 ms at typical load.*

■ *Short term over load capacity.*

■ *Higher input voltage control range, for load less than rated low.*



PUREVOLT CONSTANT VOLTAGE TRANSFORMER

In a Purevolt CVT, the AC mains powers the input winding, which 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.



TECHNICAL SPECIFICATIONS

<input type="checkbox"/> Input Voltage	:	180 V - 260 V
<input type="checkbox"/> Line Frequency	:	50 Hz
<input type="checkbox"/> Output Voltage	:	220 - 230 \pm 1%
<input type="checkbox"/> Output Step Load Response	:	2 cycles (30 to 40 milliseconds)
<input type="checkbox"/> Efficiency	:	90% (approx) under full load conditions
<input type="checkbox"/> Output Wave Form	:	Sinewave
<input type="checkbox"/> Wave from Distortion	:	5% (approx) under full load conditions
<input type="checkbox"/> Load Power Factor	:	0.75% lag to 0.9 % lead
<input type="checkbox"/> Ambient Temperature	:	-10°C to 50°C
<input type="checkbox"/> Transformer Type	:	Ferro-Resonant
<input type="checkbox"/> Effect of Frequency	:	1.6 (approx) change in output voltage for every 1% change in line frequency.

RANGE :

Purevolt CVT is available in wide rangefrom 50 VA to 10,000 VA with load test conducted at 0.8 power factor for all rating.

RECOMMENDATIONS :

- Keep magnetic storage and display device like Diskettes, Spools, Monitors etc. away from the CVT.
- Always 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 Hz \pm 1Hz.
- Switch off the CVT when not in use.

OTHER PRODUCTS :

- Servo Voltage Stabilisers
- Uninterrupted Power Supply (UPS)
- Isolation Transformers
- Power Inverters
- Custom Built Transformers
- Automatic Voltage Stabilizers
- Auto Transformers (variacs)

FIELD ON APPLICATION :

- Computers
- Data Processing Equipment
- Color Photography Labs
- Bio-Medical Equipment
- PA Equipment
- Electronic Type Writer
- Telecommunication
- TV, VCD / DVD recorders & players
- Fax Machine and all other sensitive electronic devices

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