

THE  
REAL  
CVT



YEARS  AHEAD

**Logicstat**

FERRO RESONANCE TYPE

# THE APPLICATION

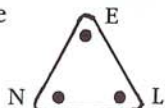
For Computers; Data processing equipment; Telex; Telecommunication Systems; Electrical & Electronic typewriters; TV/VCR; Colour photography labs; Biomedical equipment; Various testing labs and production lines; Computer Numerically Controlled machines: Moulding machines using sensitive control systems : Fax Machines; Laser Printers; Automobile Scanning/Testing Equipment.

## FEATURES

- Instantaneous regulation
- Over current protection
- Stability with temperature
- Provide a relatively sine wave output over the input range
- Filtration of all spikes and over voltages
- Isolated supply
- High reliability as no semiconductors/moving parts used
- Constant voltage over a large input range
- Inherent short circuit protection
- Maintenance free

## INSTRUCTIONS

- ✓ Place the CVT away from the equipment, and from all magnetic storage and display devices like monitors, diskettes, tapes etc.
- ✓ Keep it in such a place that plenty of air circulation is provided to it.
- ✓ Make sure that the line and neutral of the equipment are correctly connected to the CVT output (see Fig.)



- ✘ Make sure that there are no loose connections.

## SPECIFICATIONS

Input Volts	:	180 - 300 V A.C.
Output volts	:	220/230 V A.C. ± 1%
Frequency	:	50 Hz
Load Regulation	:	Better than 2%
Current Limitation	:	Inherent
Full Load Efficiency	:	87% (approx).
Transformer Type	:	Ferro resonant
No Load Loss	:	approx 15-22% of rated VA capacity
Frequency Variation	:	1.6% change in output voltage for every 1% change in frequency

## OPERATIONS

- Switching on mode :  
First the CVT-then the highest load-then the lowest load.
- Do not place anything on top of CVT during operation.
- Switch off CVT when frequency variation exceeds 50+/-1Hz
- Switch off CVT when not in use.
- Do not use on highly inductive loads like motors.

## CHOOSING THE RIGHT CVT

- 1) Total all your load requirements in VA rating (Note that VA=WATTS/0.8)
- 2) Find the minimum and maximum input voltage limits. In case the lower limit is below 170V then use the formula  
CVT Rating = LOAD x FACTOR (See table for factor)

MINIMUM INPUT PICKUP VOLTS	170	155	140	125	110	95	80
LOAD MULTIPLYING FACTOR	1.0	1.3	1.7	2.3	3.0	4.0	5.5

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\* Specification and features mentioned in this brochure are subject to change without any notice,