



## BPE-CVT Series

1000VA~10000VA

The BPE 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.



### ◆ Applications:

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.

### ◆ Salient Features:

- No semiconductors or moving parts used, hence very high reliability
- No feedback control used
- Intrinsic current limiting and short circuit protection
- Output voltage correction within ½ Cycle (10 ms) from no load to full load for specified load and line variation
- Short term over load capability
- Energy storage for line loss up to 3 ms at typical loads
- Higher input voltage control range, for loads less than rated load
- Very high line transient/spike rejection capability and excellent input to output isolation characteristics
- Output floating (optional)

### ◆ Range:

BPE CVT is available in a wide range. from 1,000 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.

### ◆ 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.

### ◆ Technical Specifications:

| MODEL                     | BPE-CVT1000                                                       | BPE-CVT2000 | BPE-CVT3000 | BPE-CVT5000 | BPE-CVT8000 | BPE-CVT10000 |
|---------------------------|-------------------------------------------------------------------|-------------|-------------|-------------|-------------|--------------|
| Input Voltage             | 180~260V AC (Others Range on Customer Demands)                    |             |             |             |             |              |
| Input Frequency           | 50Hz                                                              |             |             |             |             |              |
| Output Voltage            | 220/230V AC ±1%                                                   |             |             |             |             |              |
| Effect of Frequency       | ±1.6% for in output voltage for every 1% change in line Frequency |             |             |             |             |              |
| Output Step-load Response | 2 Cycles (30~40 ms)                                               |             |             |             |             |              |
| Efficiency                | ≥ 90% at full load                                                |             |             |             |             |              |
| Output Waveform           | Pure Sine-Wave                                                    |             |             |             |             |              |
| Waveform Distortion       | ≥ 5% on full load                                                 |             |             |             |             |              |
| Load Power factor         | 0.75% Lagging to 0.9% Leading                                     |             |             |             |             |              |
| Ambient Temperature       | -5~50° C                                                          |             |             |             |             |              |
| Transformer Type          | Ferro Resonant                                                    |             |             |             |             |              |

\*Specifications are subject to change without notice.

