



The ultimate in clean power

A Group brand | **legrand**

NUMERIC[®]

Volt Safe

Servo Controlled Voltage Stabilisers

Features

- High Efficiency
- No Waveform Distortion
- Speed of Correction upto 35 V/sec
- Response Time-Less than 20 sec.
- Immune to Load PF & Supply Frequency Variations.
 - Power Loss - 2% Max.
 - Duty Cycle Continuous
 - Very High Reliability
- Easy & Simple Maintenance

Backed by a rich experience in the manufacture of UPS Systems and allied Power Conditioners for over 25 years, NUMERIC presents **Volt Safe** a wide range of Servo Controlled Voltage Stabilisers (SCVS). Voltage variations in supply line have become a common phenomenon causing havoc to sophisticated equipments like Computers, CNC Machines, Medical Equipments, Industrial Automation, Communication equipments etc. Numeric **Volt Safe** Servo Stabilisers are designed to deliver a constant voltage, which remains within a very narrow band of $\pm 1\%$ of the nominal voltage, thereby preventing failure of the connected load due to the aberrations in the supply line voltage. The proven technology that combines solid electrical engineering ensures a continuous, smooth and very stable output voltage.

Numeric **Volt Safe** Servo Stabilisers employ a motor-driven variable transformer feeding the primary winding of a line transformer, for providing load safe voltage at the output. The output voltage is monitored by an electronic sensor and whenever the stabilised output voltage deviates from the set value due to a supply voltage or load current change, the sensor energises the motor to rotate the variable transformer brush gear until the desirable voltage is restored. This method of stabilisation inherently produces no harmonics, and therefore no additional harmonics is injected into the incoming supply.

The durability and low cost of ownership make Numeric **Volt Safe** Servo Stabilisers a very economical and reliable solution. Numeric **Volt Safe** Servo Stabilisers are widely used for many critical applications.



NUMERIC - No .1 UPS Manufacturer in India*

(*Source: Softdisk)



Technical Specification

NUMERIC®

Volt Safe

| | | | Phase | Unit Dimention | | | | |
|------------------------------|---|--|---------|----------------|---------------|-----|------|----------|
| | | | | kVA | H x W X D(mm) | | | Wt (kgs) |
| Capacity | 1 kVA to 10 kVA (1 Phase - 1 Phase) | 3 kVA to 1000 kVA (3 Phase - 3 Phase) | 1Ph-1Ph | 1 kVA | 320 | 265 | 500 | 23 |
| | For balanced and unbalanced loads | | 1Ph-1Ph | 2 kVA | 320 | 265 | 500 | 25 |
| Input Voltage Range | 170 - 270V AC in each Phase | 320 - 500V AC in Phase to Phase | 1Ph-1Ph | 3 kVA | 320 | 265 | 500 | 30 |
| | Wide input voltage range models are available against specific requirement | | 1Ph-1Ph | 5 kVA | 320 | 265 | 500 | 38 |
| Input Frequency | 47 Hz to 53 Hz | | 1Ph-1Ph | 6 kVA | 320 | 265 | 500 | 44 |
| Output Voltage | 230V AC +/- 1%, 1 Phase (Other Voltages)* | 400V AC +/- 1%, 3 Phase (Other Voltages)* | 1Ph-1Ph | 7.5 kVA | 735 | 270 | 470 | 64 |
| Output waveform | True reproduction of input, no distortion introduced by stabilizer | | 1Ph-1Ph | 10 kVA | 735 | 270 | 470 | 89 |
| Insulation Resistance | Not less than 5M ohms at 500V DC | | 1Ph-1Ph | 15 kVA | 850 | 385 | 515 | 103 |
| Dielectric Test | 1.5 kV RMS for 1 minute | | 1Ph-1Ph | 20 kVA | 1025 | 435 | 520 | 130 |
| Ambient Storage Temperature | 0 to 50 Deg. C | | 3Ph-3Ph | 5 kVA | 850 | 425 | 600 | 85 |
| Humidity | Upto 95% RH | | 3Ph-3Ph | 7.5 kVA | 850 | 425 | 600 | 110 |
| Standard | Conforms IS 9815 / IEC 61558 - 1 | | 3Ph-3Ph | 10 kVA | 850 | 425 | 600 | 125 |
| Type | Indoor, Floor mounting | | 3Ph-3Ph | 15 kVA | 850 | 425 | 600 | 130 |
| Type of control | Servo control backed by solid state electronics | | 3Ph-3Ph | 20 kVA | 975 | 425 | 690 | 150 |
| Metering | Digital Meter to read input/output voltage in each phase Digital Meter to measure the current for all phases | | 3Ph-3Ph | 30 kVA | 1175 | 425 | 790 | 210 |
| Protection | MCB / MCCB for short circuit and overload protection (Optional) | | 3Ph-3Ph | 40 kVA | 1175 | 425 | 790 | 230 |
| | Full time EMI / RFI / Surge protection (Optional) | | 3Ph-3Ph | 50 kVA | 1175 | 425 | 790 | 240 |
| Correction speed | Upto 35 V per sec | | 3Ph-3Ph | 60 kVA | 1390 | 540 | 975 | 360 |
| Lightning & Surge Protection | Optional | | 3Ph-3Ph | 80 kVA | 1390 | 540 | 975 | 390 |
| Noise Level | < 60 dB at 1 meter | | 3Ph-3Ph | 100 kVA | 1390 | 540 | 975 | 425 |
| Efficiency | > 98% | | 3Ph-3Ph | 120 kVA | 1390 | 800 | 1375 | 525 |
| Environment | Designed for indoor use | | 3Ph-3Ph | 160 kVA | 1390 | 800 | 1375 | 580 |
| Cooling | Air cooled | Air cooled upto 200 kVA / Oil cooled | 3Ph-3Ph | 200 kVA | 1390 | 800 | 1375 | 620 |

As standards, specifications and designs change from time to time, please ask for confirmation of the information given in this publication.

***Note:** • Input and output voltages other than specified above are available on request. • Manual bypass switch (optional for 1 phase stabiliser) - load break bypass switch for all 3 phase provided as standard • An optional Isolation Transformer can be incorporated into the stabiliser cabinet upto 60kVA • Technical specification for oil cooled/Higher capacities stabilisers and physical dimensions will be provided on request.

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