

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

			Unit Dimension					
			Phase	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		3Ph-3Ph	30 kVA	1175	425	790	210
	Digital Meter to measure the current for all phases							
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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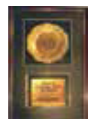
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