



# SERVO

## Controlled Stabiliser

**Powerline Stabilisers  
helps you to keep the  
o/p voltage with a  
tolerance of 1% & works  
with efficiency more  
than 98%**

### Servo Controlled Stabilizer

Any Mission Critical Micro Controller based equipment's like main Frame, Office Automation machines. Medical Equipement's, C.N.C Machines, laboratory Machines, Process Control Equipment's get totally controlled stable electric power maintaining maximum up time of application by keeping you maintenance costs absolutely minimum.

As a leading manufacturing and dealer of electronic industrial products and services, VITRONIC CONTROLS, is driven by a vision to highest standard of quality and customer satisfaction. Manufacturing high quality UPS, Stabilizer, Electronic Generators of various ranges VITRONICS CONTROLS takes care of all your power source problems giving you an uninterrupted power supply, enabling you to function efficiently and smoothly.

### Salient Features

- Fast corrections rate and very high efficiency.
- Works over wide input frequency range and no waveform distortion.
- Specially designed high performance DSP, based control circuit for ultra high reliability.
- Auto/Manual operation facility.
- Over voltage and under voltage Indicators.
- Output voltage adjustability provided on panel.
- Unaffected by load Power Factor
- Plug –in type glass-epoxy control cards for easy on line service ability.
- All components used are of reputed makes confirming to relevant IS/BIS standards.
- Stabilizers are subject to routine and type tests in accordance with latest IS Standards (IS:9815-94)

## Key Buying Points :

- Induction motor operates at high efficiency when supplied with constant voltage. Protects costly equipment from mains of High / Low Voltage , thus cutting down the maintenance cost.
- Low Production Losses & better efficiency in plant. Increased Productivity. 100 %depreciation as per Income Tax Act. Reduces MDI and saves Power.
- Redution in electricity bills up to the level of approximately 15% (This depends on the input variation loading and the number of working hours)
- Saves on diesel cost, as generator not required to run at High / Low input voltage. The average pay back period of servo Controlled Voltage Stabilizer owing to it high energy saving capability is approx 18 months

## APPLICATIONS :

- Information Technology and call centers.
- Computer and Micro-Processor Controlled Equipments.
- Sophisticated research instruments used in Scientific, Medical, Agriculture, Educational and other Research Institutions.
- Offset Printing Presses, Color Scanners, Processors, Phototypesetters, Photographic Equipments, Photo Copies and Packaging Industries.
- Medical Equipments, X-Ray Machines, E.C.G Machines / Monitors, MRI, CT Scans etc.
- Defence Installations, LPTs, HPTs, Broadcasting & Telecommunications. Lifts, Escalators and Elevators Central Air -Conditioning Plants Processing plans, Chemical Industrial, Textile Industries CNC Machines, Laser Machines and Moulding Machines etc.
- Commercial Building and Complexes. Complete Hospital and Nursing Homes.
- Corrects voltage automatically and continuously.

SPECIFICATIONS	1 PHASE	3 Phase Unbalanced Air Cooled	3 Phase Unbalanced Oilcooled
Rating		3-150	3-2000
Type of Cooling		Air	Oil
Input Voltage Range (VL-L)		310-480 / 340-480 / 360-460	
Output Voltage (VI-L)		415 (380V / 400V- optional)	
Output Voltage Regulation		1% of nominal voltage	
Input Frequency Range		47Hz-53Hz	
Efficiency		>97%	
Effect of load Power Factor		Nil	
Waveform Distortion		Nil	
Types of Servo Control		Micro Controller based TrueRMS sensing and correction	
Servo Motor Drive		Triac based drive for AC Step Synchronous motor	
Under / Over Voltage cutoff		Electronic cutoff circuit with graded time delay, set @ +5% / -10% of nominal output voltage	
Overload Cutoff		CT based Electronic cutoff circuit with graded time set @ 110% of rated full load current	
Short Circuit Protection		MCB / MCCB provided upto 100KVA, Above 100KVA HRC fuse (MCCB OPTIONAL)	
Single Phasing Prevention		Provided	
Phase Reversal Trip		Provided	
Stabilizer bypass		Provided up to 50 KVA 3-phase: Optional > 50 KVA	
Transient Suppression		Sprike Suppression through MOV is provided (Surge Arrestor is optional)	
Emergency Off Switch		Provided	
Frequency Cut-Off Protection		Optional	
Input High Voltage Trip		Optional	
Resetting Mode		Manual / Auto option provided with programmable time delay	
Display Type		LED Display	
Parameter Display		Input & Output Voltages (Line & Phase), Output Currents & Frequency, Fault Annunciation	
LED Indications		Non Latching LED Lamps for Output ON, MCB Trip, Stabiliser Bypass (If Bypass Switch is provided)	
Input / Output Terminations		Din Connectors upto 100 KVA, Busbar / Bolted terminals for ratings >100 KVA	