

## SERVO CONTROLLED VOLTAGE STABILIZER



**3 PHASE AIR & OIL COOLED TYPE,  
1KVA TO 2000 KVA  
1 PHASE AIR & OIL COOLED TYPE**

Frequent Fluctuations Or Variation Of Power Not  
Only Causes Financial Loss But Man Power Loss Too!

### SERVO CONTROLLED VOLTAGE STABILIZERS

Beats These Happenings And Provides  
All Extra Care Needed To Your Valuable Equipments

**MODERN | DEPENDABLE | RELIABLE | INTELLIGENT | SECURE POWER SUPPLY | WHEREVER IT'S NEEDED**



Metro

**For**

Textile Machines | CNC Machines | Banking | Medical & Motor Loads | Lifts and Elevators  
Packaging Machines | Bio Medical Equipments | Colour Lab Equipments  
Photo Copying Machines | Printers & Plotters | Embroidery Machines  
Ultra Sonic Sonography Machines | ATM Centers



Medical

The Significant voltage fluctuations that occur on the electrical network simulates the premature ageing of the critical machines and even damages them in most cases.



Lab

The Solution to this type of problem is the use of voltage stabilizers which guarantee that the connected loads will always operate within safe limits that will not damage them and the regulated voltage enables the machines to operate at a better efficiency thereby avoiding energy loss.

### Servo Stabilizer with Advanced Micro Controller System:

Advanced Micro Controllers today, the base for the new generation power conducting devices, provides a highly precise correction and regulation with auto calibration feature. Its instant response and smooth drive outputs enhances the performance of the entire correction system.

"Vandan Power Stabilizer's" unique single screen and key pad enables the user to grasp faster, the input and output status of all the phases and to read input & output voltage, current and frequency within seconds.



Security



Network

### Salient Features

- Excellent regulation as high +\_0.5%
- Full proof OV, UV & Over load Cut-off system
- Flush mounting of variac ensuring zero carbon deposit & optimum brush tension
- Micro Controller circuit ensures constant output voltage even with distorted input
- High accuracy Class 1 LCD CAF Meter
- Auto / Manual Facility Provided
- Rugged and smooth voltage control
- Quickest response time 10ms (Half a Cycle)
- High Speed of voltage correction with zero hunting
- Unaffected by load power factor
- Efficiency above 98%
- Smart time delay for Cut-off
- No noise or transient generated by the system due to isolated servo drive
- Time delay for Auto restart programmable.
- User friendly front panel
- Small & Compact in Size
- Easy Maintenance
- Energy Saving
- Phase reversal protection programmable
- Dual protection for single phasing
- Zero wave from distortion



Industrial



Telecom



Data Center

**CONTROL VOLTAGE  
HIGH EFFICIENCY**

**HIGHEST RELIABILITY  
AUTO MANUAL FACILITY**

# TECHNICAL SPECIFICATIONS



Rating's:	Air Cooled	Oil Cooled
<b>Capacity (KVA)</b>	Up to 400 KVA	Up to 2000 KVA
1. Nominal Output Voltage	: 415 V internally settable to 380 V or 400V	
2. Input Voltage range at	: 415V output voltage	
Model A	: 310 - 480 volts	
Model B	: 340 - 480 volts	
Model C	: 360 - 460 volts	
3. Input frequency range		
4. Type of stabilizer	: Suitable for unbalanced loads and input voltages	
5. Output voltage regulation	: +1% of nominal output voltage	
6. Average correction rate	: 70 V / sec (L-L) Optionally 105 V / 110 V/ sec	
7. Servo motor drive	: A.C. synchronous stepper motor	
8. Efficiency	: Greater than 98 %	
9. Metering	: LCD Digital meter (I/ p & O/p Voltage, Amps & Freq)	
10. Accuracy of LCD voltmeter	: Class 1.0	
11. Electronic under / over voltage cut off		
Over Voltage	: 20+ - 4 V above nominal	
Under Voltage	: 40+ - V above nominal	
Overload	: Operative above 110% of the rated output current with graded time delay	
12. Single phasing prevention	: By each phase voltage sensing and trip through contactor	
13. Short circuit protection	: MCB at Input side	
14. Phase reversal protection	: Phase reversal protection provided	
15. Stabilizer By-pass Switch	: Optional or as per requirement	
16. Fault annunciation panel		
Non latching LCD indications		
Operate	: Input present (For each phase)	
	: Output normal (For each phase)	
Caution	: Input High (For each phase)	
	: Input low (For each phase)	
Latching LCD indications		
Cut off	: Output High	
	: Output low	
	: Output Overload	
	: Phase reversal	
17. Resetting mode	: Automatic restart with option for manual restart	
18. Output ON Time delay	: Standard 15 second (Internal settable 3 minutes)	
19. Response Time	: Less than 10ms	
20. Normal Operating Temperature	: 00 C to 45 0 C	
21. Climatic Conditions	: 90% RH. Max Non-condensing at 35 0 C	
22. Warranty	: 1 Year	
23. Housing	: Rack with pleasing aesthetics and castor wheels designed to protect against ingress of foreign particles. [ - Integrated Design of tank and Control Panel for better accessibility	
24. System Construction	: As per IS : 9815 part II	
25. Input / Output terminations	: 8 way terminal connector for cable terminations and plates for fixing cable glands.	
26. Installation Requirements	: I/p & O/ p cables and other accessories to be provided by the customer	

## Isolation / Ultra Isolation Transformer



## SERVO CONTROLLED VOLTAGE STABILIZERS



## SCREW / AIR COMPRESSOR



## AIR DRYER / FILTER



\* We pursue a policy of continuous development & product improvement. Specification & front panel controls, may be subject to change, without notice



Gat No. 1009 to 1011,  
 Raga Homes, PH-2, Flat No. B/902,  
 Haveli, Pune, Pimpri Chichwad, (M. Corp) - 411062  
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