



energenoTM
power of future

Servo Controlled Voltage Stabilizer

Single Phase Air Cooled & Oil Cooled Type 5KVA to 60KVA

Frequent Fluctuation or variation of Power not only causes Financial Loss but Man Power loss too

Servo Controlled Voltage Stabilizer

Beats these happening and provides All extra care needed to your valuable equipments.

For

**Textile Machine | 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**

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.

The solution of 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 Controller 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.

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

Salient Features

- Excellent regulation as high as +_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/Digital VAF Meter
- Auto/Manual Facility Provided
- Rugged and Smooth voltage control
- Quickest response time 10 ms (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

Control Voltage
High Efficiency
Highest Reliability
Auto Manual Facility

Parameters

1. Nominal Output Voltage	240 V internally settable to 220 V or 230V
2. Input Voltage	240 V output voltage
Model A	180 – 300 volts
Model B	160– 270 volts
Model C	140 – 280 volts
Model D	120– 280 volts
Model E	110 – 260 volts
3. Input Frequency Range	47 – 53Hz
4. Type of Stabilizer	Air Cooled & Oil Cooled
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+- 4 V above nominal
Overload	Operative above 110% of the rates 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	Provided as a standard feature upto 50kVA (Optional above 50 kVA)
16. Fault annunciation panel	
Non latching LCD indications	
Operate	Input present Out put normal
Caution	Input High Input low
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	0°C to 45°C
21. Climatic Conditions	90% RH. Max. Non-condensing at 35°C
22. Warranty	Standard
23. Housing	Rack with pleasing aesthetics and castor wheels designed to protect against ingress of foreign particles.
24. System construction	As per IS : 9815 Part II
25. Input / Output terminations	4 way terminal connector for cable terminations and plates for fixing
26. Installation Requirements	I/p & O/p cables and other accessories to be provided by the customer
27. Ratings	Upto 60kVA offered



ECO POWERTRONICS

House No. 452, Ground Floor, Sector-3,
Vikas Nagar, Lucknow, U.P-226022, India
Phone: 0522-2739800 Cell: 7007650091
email: info@ecopowerups.in
website : www.ecopowerups.in

