



**VERTEX SERVO STABILISER**  
**SINGLE PHASE - AIRCOOLED/OILCOOLED**  
**1 kVA – 20 kVA**

**SALIENT FEATURES:**

- Microcontroller (DSP) based control system
- LCD Displays – Input & Output Voltage, Frequency and % Loading
- User adjustable setting of O/P Voltage, High/Low cut-off limits & Manual / Auto Restart time delay, with great accuracy
- Higher response time through its Microcontroller design
- Cut-off protection with graded time delay

**Vertex Power Solutions Pvt. Ltd.**, is managed by a team of Engineers with over 25 years of experience in the field of Power conditioning Equipment. The Products are manufactured at Chennai, under the brand name of VERTEX.

VERTEX, through its quality products & service, has made its presence felt in various segments like Textile, Telecom, Engineering & Automobile, Printing, Packaging, Medical, Analytical, Audio/Video, IT, etc.

Single Phase Servo Stabilisers are used to protect the sensitive equipment from voltage fluctuations caused due to switching ON/Off of heavy machinery, load distribution on the transformers, etc. Under varying voltage conditions the sensitive equipments like medical, analytical, audio/video, Computers, etc malfunction or can be damaged. VERTEX Stabiliser provides constant output voltage, 220 /230 volts with a tolerance of +/- 1% with high/low output voltage cut-off and overload cut-off. This ensures smooth operation and longer life for the equipments.

Oilcooled stabilisers find their applications in industries like Spinning & Garment which are used to prevent the ingress of dust and foreign particles.

**APPLICATIONS:**

Textile, Garment, Packaging, Medical, Analytical, UPS (bypass), Audio-Video, Printing, CNC machines, Offices/Commercial Complexes, etc.

# TECHNICAL SPECIFICATIONS – VERTEX SERVO STABILISER

<b>Type of Stabiliser</b>	Single Phase Stabiliser
<b>Type of Application</b>	Indoor Application
<b>Type of Design</b>	Servo Stabiliser with O/P sensing feed-back system
<b>Type Of Cooling</b>	Aircooled
<b>Servo Motor Type</b>	Opto Coupler based Triac drive
<b>Servo Motor Drive</b>	A.C. Synchronous Stepper Motor
<b>Input Voltage Range</b>	170 V - 270 V
<b>Input Frequency</b>	47 - 53 Hz
<b>Output Voltage</b>	230 V ; Adjustable 220 V OR 240 V(L - N)
<b>Output Voltage Regulation</b>	± 1 %
<b>Control Design</b>	Microcontroller (Digital Signal Processor) based system
<b>Waveform Distortion</b>	NIL (Output Waveform same as Input Waveform)
<b>Effect of Load PF</b>	NIL (Effect of Load PF on Output Voltage is Nil)
<b>Correction speed</b>	30 V/ Sec
<b>Efficiency</b>	≥ 98%
<b>Under / Over Voltage Cut Off</b>	Upper Limit +5%, Lower Limit -10% of O/P nominal Voltage
<b>Short Circuit Protection</b>	HRC Fuse at Input (OR) MCB
<b>Over Load Protection</b>	Operative above 110% of rated output current
<b>Reset</b>	Auto restart / Manual restart (User Settable)
<b>Display Type</b>	Backlight LCD Display
<b>Parameters Displayed</b>	I/P & O/P Voltage, Hz, Current
<b>Front Panel Indications</b>	LED Indication for – Input Present, Output Normal
<b>Front Panel User Interface</b>	MENU, UP/DOWN KEY, ENTER/SET KEY
<b>Input / Output Connection</b>	Input Cable / Output Sockets
<b>Emergency Manual Bypass</b>	Optional
<b>Output Relay / Contactor</b>	Built-in
<b>Transient Protection</b>	MOV with RC Filter on Request
<b>EMI / RFI Filter</b>	Optional
<b>Ambient Temperature</b>	0 to 50° C
<b>Standard kVA Ratings</b>	1 kVA to 20 kVA
<b>Design Standards</b>	As per IS:9815

*Specifications are subject to change without notice, on account of development in product design*

Custom Designed: Stabilizers of more than 20 kVA are also available with wider / shorter input voltage range & also with special output voltage, as per customer requirements.

## Head Office & Works:

### **VERTEX POWER SOLUTIONS PVT. LTD.,**

No 38, Muthupalaniyappan Nagar, Samy Street, Nagalkeni, Chrompet, Chennai – 600 044.

Mob: 99400 58974 / 97909 30241

Email: ho@vertexpower.co.in