SALIENT FEATURES:

➤ Microcontroller (DSP) based control system

➤ True RMS voltage sensing & correction

➤ LCD Displays – I/P & O/P Voltages (L-N & L-L), Output Current (R/Y/B) & Frequency

➤ 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 SERVO STABILISER
THREE PHASE – AIRCOOLED
3 kVA – 150 kVA

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.

Three Phase Aircooled Servo Stabilisers consists of three single phase units connected in star. The voltage sensing & correction is done in each phase independently with respect to the neutral, also called as unbalanced type voltage stabilisers. These stabilisers are used for various kinds of machinery like CNC, Textile, CT Scans, Printing, Packaging, Freezers, etc. VERTEX Stabiliser uses a Microcontroller (DSP) control system to provide a steady voltage and also protects the machinery from under/over voltage, overload, single phasing and phase reversal conditions.

Applications: Textile, Garment, Packaging, Medical, Analytical, UPS (bypass), Printing, CNC machines , Lifts, Centralized AC, Telecom (GSM towers), Petrol Bunks, Residential, Food processing, Offices/Commercial Complexes etc.

Type of Stabiliser	Three Phase Stabiliser
Type of Application	Indoor Application
Type of Design	Servo Stabiliser with O/P sensing feed-back system
Type Of Cooling	Aircooled
Servo Motor Type	Opto Coupler based Triac drive
Servo Motor Drive	A.C. Synchronous Stepper Motor
Input Voltage Range	360 V - 460 V / 340 V – 460 V / 310 V – 480 V
Input Frequency	47 - 53 Hz
Output Voltage	415 V ; Adjustable 380 V OR 400 V(L - L)
Output Voltage Regulation	± 1 %
Control Design	Microcontroller (Digital Signal Processor) based system
Voltage Sensing & Correction	True RMS Sensing & Correction
Waveform Distortion	NIL (Output Waveform same as Input Waveform)
Effect of Load PF	NIL (Effect of Load PF on Output Voltage is Nil)
Correction speed	60 V/ Sec
Efficiency	≥ 98%
Under / Over Voltage Cut Off	Upper Limit +5%, Lower Limit -10% of O/P nominal Voltage
Short Circuit	HRC Fuse at Input (OR) MCB (OR) MCCB
Over Load	Operative above 110% of rated output current
Single Phasing Prevention	Built-in
Phase Reversal Protection	Built-in
Reset	Auto restart / Manual restart (User Settable)
Auto / Manual for Operation	Increase / Decrease (Thru key combination on front panel)
Display Type	2 x 16 Character LCD with Back-light
Parameters Displayed	I/P & O/P Voltage L-L, L-N, Hz, Current R-Y-B (all Phases)
Front Panel Indications	LED Indication for – Input Present, Output Normal
Front Panel User Interface	MENU, UP/DOWN KEY, ENTER/SET KEY
Event Recorder	Provided for fault detection
Input / Output Connection	7 Way terminal Connector (With Nut Bolt arrangement)
Emergency Manual Bypass	Built-in upto 50 kVA (Above 50 kVA – Optional)
Output Relay / Contactor	Built-in
Transient Protection	MOV with RC Filter on Request
EMI / RFI Filter	Optional
Ambient Temperature	0 to 50° C
Standard kVA Ratings	1 kVA to 150 kVA
Design Standards	As per IS:9815

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

<u>*Custom Designed:*</u> Stabilizers of more than 150 kVA are also available with wider / shorter input voltage range & also with special output voltage, as per customer requirements.

J S Power Services

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