



**TEKLAB Servo Stabilizer** is designed as a source for use in laboratories, industries, field testing and Agriculture etc... **TEKLAB Servo Stabilizer** is coming with excellent line and load regulation and is provided with protective circuits to ensure trouble free operation.

An oil-cooled servo voltage stabilizer is an electrical device that controls changes in power supply voltage. It uses oil to cool the unit so it cools heat well, which fits heavy work with high loads. This stabilizer checks the input voltage and fixes it to keep a steady output voltage This attractive compact & feature rich series Servo Stabilizer not only require minimum bench space but also prevent EMI radiation's & ensure ruggedness by providing sturdy powder coated metal enclosures.

**TEKLAB Servo Stabilizer** is perfect to be employed in situations where the power source has a high frequency of fluctuating voltage. The use of an oil-cooled servo voltage stabilizer ensures that power supply fluctuations do not impact electronic or electrical equipment.

Three Phase Oil Cooled **TEKLAB Servo Stabilisers** are used to prevent the ingress of dust and foreign particles. The transformer oil is used for cooling transformers inside the voltage stabilisers.

## FEATURES

- Electronic over and under voltage trip with time delay for input and output.
- Electronic overload protection and short circuit protection through MCB/MCCB.
- Phase reversal protection and cut off.
- Single Phase Prevention and Cut off.
- Neutral failure protection.
- Frequency cut-off protection.
- Including first filling of cooling oil.
- Compatible to Generator Supply.

OUTPUT RANGES MAY VARY FROM 5KVA TO 150KVA AS PER CUSTOMER REQUEST.  
FIND BELOW MODELS FOR YOUR REFERENCE.

## TECHNICAL SPECIFICATIONS

### a) 15KVA

<b>Capacity</b>	15KVA
<b>Input Voltage</b>	360-460VAC ,380-480VAC
<b>Output Voltage</b>	380,400,415 line to line
<b>Type of Servo stabilizer</b>	Suitable for balance and Unbalance load and Voltage
<b>Voltage Regulation</b>	±1%
<b>Frequency</b>	47Hz to 63Hz
<b>Control Type</b>	Digital-Micro Controlled based
<b>Rate of Correction</b>	Up to 100V/Sec (line to line)
<b>Servo Motor Drive</b>	AC synchronous stepper motor
<b>Waveform distortion</b>	Nil
<b>Effect of Load Power</b>	Nil
<b>Response time</b>	10m Seconds
<b>Correction Speed</b>	70V per second
<b>Protection</b>	Input low cut off protection/Input high cut off protection Output low cut off protection/Output high cut off protection Overload cut off protection/Single phase prevention protection Short Circuit protection
<b>Fault Annunciation panel LED's</b>	Input Present, Input High, Input Low, Output Normal, Output High, Output Low, Overload
<b>Output On time delay</b>	Standard 3 Seconds
<b>Ambient</b>	0-45° C RH up to 90%
<b>Enclosure</b>	IP-21,IP-55
<b>Efficiency</b>	98%

## b) 150KVA

<b>Rated Capacity</b>	150 KVA
<b>Phase</b>	3Phase.
<b>Input Voltage Range</b>	360-460V AC
<b>Output Voltage Ranges</b>	400V
<b>Oil Quantity</b>	300 Litres
<b>Cooling</b>	Oil Natural Cooling.
<b>Control Type</b>	Digital Microcontroller Based
<b>Temperature Rise (max)</b>	55° C Above ambient temp.
<b>Correction Speed</b>	40 V/Sec
<b>Output Voltage Regulation</b>	+/- 1% from No-load to Full-load.
<b>Trip and Restart</b>	Auto System
<b>Overload Capacity</b>	120%
<b>Duty Cycle</b>	100% Continuous
<b>Frequency</b>	50 Hz
<b>Waveform Distortion</b>	Nil
<b>Effect of Load PF</b>	Nil
<b>Mounting</b>	On Unidirectional Wheel.
<b>Audio-Visual Alarm</b>	For tripping condition
<b>Reset</b>	Manual / Auto reset with time delay and programmable
<b>Transient Suppression</b>	Above 270 V 1ph & 450 V 3ph
<b>System</b>	Unbalanced 4 wire R Y B N
<b>Connection</b>	Star
<b>System Construction</b>	As per IS: 9815-1994
<b>Efficiency</b>	Above 98%
<b>Environment</b>	For indoor Continuous Operation
<b>Provision for Cabling</b>	Input and output terminations
<b>Start</b>	Manual and auto start facility
<b>Response time</b>	Less than 100ms
<b>Earthing</b>	With Earthing terminals.
<b>Digital Metering Display Type</b>	Input phase to neutral.
	Input phase to phase.
	Output phase to neutral.
	Output phase to phase.
	Load current in all phases.
	Frequency.
<b>Dimensions (W×H×D)</b>	1450×1200×750mm



Manufactured by,

**TEKLAB INDIA SOLUTIONS**

**AN ISO 9001: 2015 COMPANY**

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