



K-SAMBHAV POWERTRONICS (P) LTD.

Manufacturer of Power & Distribution Transformers/ Servo Voltage Stabilizer

SERVO VOLTAGE STABILIZER

All electrically operated equipments are designed for a specific power supply voltage. If it deviates from the designated voltage, the performance of the equipment is affected. Both high & low voltage is detrimental to the life of the equipment and results in economic loss.

To protect such equipments, from Voltage fluctuations **SERVO VOLTAGE REGULATOR** corrects such fluctuations. It is designed for Single phase (up to 200 KVA) and three phase (upto 1000 KVA) for **BALANCED/UNBALANCED** load, manufactured & Tested as per IS:9815

PRINCIPLE OF OPERATION

➤ Single phase

The output fluctuation of the line is fed in to **solid state** error amplifier which operates the servo motor. The voltage of the servo stabilizer is compared with a built in reference voltage source. The motor coupled to the variable auto transformer increases/decreases the voltage to primary of Torodial transformer. The Torodial transformer adds/subtracts the voltage to mains so that the output voltage remains within the set limits.

➤ Three phase

These basically consists of three phase units in one housing with completely independent control circuits for each phase.

TECHNICAL SPECIFICATION

Single Phase

Air Cooled	1KVA - 16 KVA
Oil Cooled	16 KVA - 200 KVA
Input	160-260 / 140-280 V
Output	230V \pm 1%

Three Phase Balanced / Unbalanced

Air Cooled	3 KVA - 50 KVA
Oil Cooled	50 KVA - 1000 KVA
Input	300-460V / 245-485V
Output	400V \pm 1%

➤ OTHER ACCESSORIES ON REQUEST :

- Low/High Voltage Protection.
- Single Phase Preventor.
- Overload Protection.

TECHNICAL PARTICULARS OF TRANSFORMERS

➤ **Voltage Ratio :** 11000/433 V

VECTOR GROUP : Dyn - 11

RATING KVA	NO LOAD LOSS	LOAD LOSS	% Z	WEIGHT (KG)
100	260	1760	4.5	600
160	375	2600	4.5	870
250	550	3600	4.5	1150
315	600	4500	4.5	1400
400	690	5100	4.75	1540
500	850	6500	4.5	1850
630	1100	7500	4.75	2140
1000	1300	10000	5.0	3000
1500	2200	13000	6.0	5100
Voltage Ratio 33/11 or 33/0.433				
2500	2700	15000	6.25	6800
3150	3000	18000	6.25	8050
5000	4000	23000	7.15	12000

WEBERS

➤ **Efficiency at Full Load**

KVA	100	250	400	500	630	1000	2500	5000
AT UPF	98.20	98.37	98.57	98.58	98.65	98.62	98.69	98.89
AT 0.8 PF	97.54	97.77	98.22	98.32	98.32	98.32	98.43	98.47

➤ **No Load Current :** Less than 2% of Full Load Current.

➤ **Approved by**

- C.P.R.I. Bhopal
- National Test House, Ghaziabad
- E.R.D.A. Vadodara
- P.S.E.B. / D.H.B.V.N Hisar/U.P.P.C.L. Lucknow/U.P. Avas Vikas etc.
- Confirming to IS 2026, IS 1180, BS 171

All performances are subject to IS tolerance

➤ **STANDARD ACCESSORIES (TRANSFORMERS):**

Stainless Steel Rating Plate
Oil Temperature Indicator
Oil Drain Valve
Oil Filling Hole
Oil Level Gauge
Dehydrating Breather
Air Release Plug
Explosion Vent
Lifting Lugs

Filter Valve
Earthing Terminal
Thermometer Pocket
Bi/Uni Directional Rollers
Radiators
L V Cable Box
Conservator

➤ **OTHER ACCESSORIES ON REQUEST :**

Buchhloz Relay.
Winding Temp Indicator.
On Load Tap changer.
Marshal Box.

➤ **GUARANTEE :**

Our transformers are guaranteed against manufacturing defect for a period of 24 months from the date of despatch.

**PROMPT AFTER SALES SERVICE / AMC
ATTRACTIVE BUY BACK**



We reserve our right for constant upgradation/modification and to change the design/specification at the discretion of our technical department.



Factory.

Regd. Off.

Tel.

E-mail

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