

TM

SAFFRON ENGINEERING



Product Range

- ✓ Servo Voltage Stabilizers
- ✓ Ultra Isolation Transformers
- ✓ Power Transformers

TECHNICAL SPECIFICATION :

1.	Input Voltage Range 3-phase	: 360-460-, 340-480, 300-500 v (Or as per customer specification)
2.	Input Voltage Range 1-phase	: 160-270, 180-280, 130-260 v
3.	Output Voltage Range 3-phase	: 415, 400, 380 v
4.	Output Voltage Range 1-phase	: 240, 230, 220 v
5.	System Construction	: Unbalanced Type
6.	Output Voltage Regulation	: +/- 1%
7.	Overload Capacity	: 120 %
8.	Correction Speed	: 35 v/sec, 70 v/sec, 110 v/sec (optional with D.C. motor)
9.	Wave Form Distortion	: Nil
10.	Output Wave Form	: True reproduction of input
11.	Cooling	: Natural air-cooled up to 125 kva
12.	Modes Of System	: Both auto or manual
13.	System Construction	: as per IS 9815-1994

DIMENSIONS : (for Air Cooled Stabilizer)

Sr. No.	Capacity	W	D	H
1	5 KVA	660	350	400
2	10 KVA	660	400	680
3	15 KVA	660	400	680
4	20 KVA	660	400	680
5	25 KVA	650	520	715
6	30 KVA	850	520	770
7	35 KVA	850	520	770
8	40 KVA	850	520	770
9	50 KVA	850	520	770
10	60 KVA	1000	600	800
11	75 KVA	1000	600	800
12	80 KVA	1000	600	800
13	90 KVA	1000	600	800
14	100 KVA	1000	600	800

(All dimensions are in mm)

Above 100 KVA Dimensions will be provided on request



APPLICATION :

- ▶ CNC Machine
- ▶ Biomedical Equipments
- ▶ Textile Machinery
- ▶ Pharmaceutical Machinery

PROTECTION :

- ▶ Output under voltage
- ▶ Output over voltage
- ▶ Single phasing preventer
- ▶ Reverse phasing preventer
- ▶ Overload & Short Circuit protection through MCB/MCCB

PANEL INDICATION :

- ▶ Digital Volt Meter For Input & Output Voltage Indication
- ▶ Digital Ammeter
- ▶ Frequency Meter
- ▶ Output Low Trip Indication For Individual Phases
- ▶ Output High Trip Indication For Individual Phases
- ▶ Input Low Indication For Individual Phase. Input High Indication For

SALIENT FEATURES

SWITCHES

BY-PASS SWITCH : This switch enable to by-pass the servo stabilizer in case of the failure of the servo stabilizer. The equipment connected through the stabilizer will get the supply form mains directly once the stabilizer is by-passed. (Optional)

Volt-Selector Switch : Voltage selector switch for I/P or O/P selection for indication on digital display.

Stabilizer on Switch : Stabilizer on push button switch for easy start of stabilizer output.

DIMMERS

Vertical Type Dimmers for smooth operation and faster correction, These dimmers are of low maintenance due to its vertical design as Carbon and Dust deposition on dimmer surface is very less compared to horizontal dimmers. Also available in **Roller Carbons** up to 25 kva 3-ph. rating.

PROTECTION

- ▶ Over Voltage Protection
- ▶ Under Voltage Protection
- ▶ Single Phasing Preventer
- ▶ Phase Reversal Preventer
- ▶ Short Circuit Protection

CONTROL SYSTEM

Plug in type Micro processor based control card for high reliability, accuracy & easy maintenance.

MS ENCLOSURE

Spacious pipe structure design duly powder coated for easy maintenance with wheels for smooth movement.

DISPLAY & INDICATION

VIF Indicator : This digital display gives the information of voltage, current and frequency of the all phase for both input and output.

Trip Indication : Trip indication for individual phases for both undervoltage and overvoltage condition.

InLow or InHigh Voltage : Mains incoming indicator Neon lamp for all phase.

Main Indicator : Incoming mains supply indicator.



Saffron Engineering corporation is one of the leading manufacturer of servo controlled voltage stabilizers for more than 15 years. This equipment is used to obtain a steady three phase AC supply within very close tolerances to a fluctuating mains. This equipment finds application in Dairy industry, Chemical, Process Industry, Research Establishment and Hospitality industry etc. We have over 800+ installations in just last 7 years have become one of the preferred suppliers to dairy industries, gear manufacturing industries.



BENEFITS OF "SAFFRON" MAKE SERVO STABILIZERS :

- ✔ **REDUCTION IN BREAKDOWN OF ELECTRICAL EQUIPMENTS** : UP TO 70% depending upon the input voltage variation and working hours of the plant which will result in zero breakdown and better utilization of manpower & equipments.
- ✔ **ENERGY SAVING** : 5-25 % depending upon the input voltage variation and working hours of the plant.
- ✔ **GUARANTEE** : Our Servo stabilizers are warranted for 1 year unconditionally after installations at site. We have wide spread service network in most of the states in India and we provide services at site our clients for any complaints.
- ✔ **REDUCTION IN MDI** : There will be definite reduction in MDI by 10-15% after the power factor by 10-15% after the installation of the equipment.
- ✔ **IMPROVEMENT IN POWER FACTOR** : Improvement in the power factor by 10-15% can be achieved as the output supply will be stable.
- ✔ **EFFICIENCY** : "SAFFRON" make Servo controlled voltage stabilizers are 98.5% efficient compared to other conventional Servo stabilizers.
- ✔ **LOAD** : "SAFFRON" make Servo controlled voltage stabilizers are manufactured for unbalanced load or Balanced load as per customer requirements.