

PUREVOLT™

SERVO VOLTAGE STABILIZER



ISO 9001-2000
Certified Company

NSIC

*Ratings Available
1.0 KVA to 1500 KVA*



Complete Power Solutions

Think what's behind your power stability



About us

We take this Opportunity to introduce ourselves as an “ISO 9001 -2000 Certified Organization” & a registered DGS&D, NSIC, D&B and SSI Unit engaged in Manufacturing, Exports and Marketing of all types of Power Conditioning Equipments.

Our **D U N - S** No is 72-513-8288. We are also exporting these products to various countries like **Australia, Canada, USA, South Africa, Peru, Sudan, Abu Dhabi, Sharjah, Sweden, Nigeria, Sudan, UAE, Bangladesh, Tanzania, Egypt, Saudi Arabia, Bahrain, Dubai, Nepal, Bhutan etc**

Purevolt Products Pvt. Ltd. was launched by a group of hardcore power electronic engineers and professionals with an objective of providing single source solutions for solving all power problems faced by Industries, Domestic and Computer users.

All these systems manufactured, marketed and supported by PUREVOLT are based on the State of the art technologies keeping abreast with the ISO Standards.



Why you need a Servo Voltage Stabilizer?

It is seen that In spite of best efforts by various Electricity Boards / Supply undertakings the voltage at consumer's end is never constant. The reason being diverse loading duties arising in transmissions and distribution network. During the day time when the load requirements is more the voltage remains quite low and during night it goes up than the normal.

As a result of these never ending voltage fluctuations there is frequent Tripping / Breakdown of the systems / machines and precious equipment's resulting into low production.

Our Servo Voltage Stabilizer can overcome and control these voltage fluctuations & can provide you with the desired constant output voltages. Our every Servo Voltage Stabilizer rolled out of the factory undergoes strict and rigid inspection and testing.

Our Servo Voltage Stabilizers are duly Tested & Approved by Govt. lab Electronic Test & Development Center (ETDC) & are manufactured As per IS 9815 Standards.

Our Servo Voltage Stabilizer are available in a vast choice of Input and Output Voltage range suitable for various applications in industries, institutions and residences etc. having indigenous, imported sophisticated machines / instrument / gadgets etc.

How does this Servo Voltage Stabilizer Operate?

Purevolt Servo Voltage Stabilizer essentially employs a Solid-State circuit, which controls the Servo Motor. The motor is mechanically coupled to the arm of a continuously variable Auto Transformer (Variac) that feeds to the primary of a series control Buck-Boost transformer. The stabilizer output voltage is compared with the reference voltage and the resultant error signal controls the Servo Motor providing true proportional control systems rather than On/off circuits.

Type of Servo Voltage Stabilizer ?

UNBALANCED TYPE : Widely accepted design to suit various conditions. All the phase/s are independently sensed & corrected. Suitable for both balanced/ unbalanced loading & incoming voltage

BALANCE TYPE : One phase (master) sensed & all the 3 corrected in accordance to the master phase. Suitable for balanced loading & balanced incoming voltage only (not suitable for unbalanced loading/ unbalanced input voltage)

Fields of Application:

Servo Voltage Stabilizers are virtually required at all such places where controlled and constant voltage is one of the most important ingredients. Like Hospitals, Laboratories, various life saving & testing equipments, pharmaceuticals, Research Institutes, Defense, Telecommunications, Air Conditioning, Data Processing, Electronics based Industrial, Educational institutes, Food processing units, Paper plants, Footwear and Leather industrial, Cement Plants, Textile Industries, Moulding units, Hotels, Farms houses, Offices and residences/ housing apartment etc.



PUREVOLT™



3IN - 1 OUT (New launch)

SALIENT FEATURES

- Fully Solid State Control Circuit for High Reliability.
- Synchronous motor drive for high reliability.
- Excellent Regulations as high as $\pm 1\%$.
- Use of Professional Grade IC's for better stability.
- Zero Wave Form Distortion.
- Plug in type PCB with Gold Plated fingers for better contacts.
- High Efficiency
- Rugged Construction with Low No Load Losses.
- Auto - Manual Operation Facility through selector switch.
- Volts adjust to set / adjust required voltages.
- Increase / Decrease switch to control output voltages in Manual Mode.
- Voltmeters to read Input / Output voltages through Selector switch.
- Indications: Output On, Input High/Low, Output Cutoff.
- Suitable Input / Output connection provision is provided.
- Cyclic & Routine Test done on every unit.

OPTIONAL FEATURES

- 110 V Output can also be supplied.
- Over - Under Voltage Cutoff Protection through Contactor.
- Overload / Short Circuit protection through MCB/MCCB.
- Changeover / By-Pass facility.
- Built in spike suppressor.
- Digital Voltmeter / Am-Meter.
- Single Phase / Phase Reversal Protection.

General Technical Specification of our Servo Voltage Stabilizer

Characteristics	Single Phase	Three Phase (Unbalanced/Balanced Type)
Input Voltage	200 - 280 V AC 170 - 270 V AC 140 - 280 V AC 110 - 280 V AC	340 - 480 V AC 300 - 460 V AC 240 - 480 V AC 190 - 480 V AC
Output Voltage	230 V $\pm 1\%$	400 V $\pm 1\%$
Output Adjustable	220 - 240 V AC	380 - 415 V AC
Connections		Star / Star
Frequency		47- 53 Hz
System Design		As per IS : 9815 : 1994
Insulation		Class B
Wave from Distortion		None
Effect of Load Power Factor		Nil
Type of Cooling		Air / Oil Cooled
Speed of Correction		>than 20 V / Sec.
Regulation		$\pm 1.0\%$ from No Load to full load
Ambient Temperature		0° to 55° C
Environment		Designed for indoor continuous operation
Rating Available		1 KVA to 1500 KVA

Isolation Transformer

PUREVOLT manufacture ISOLATION TRANSFORMERS, STEP UP TRANSFORMER, STEP DOWN TRANSFORMER which reduce the effects of power Line problems like noise, spikes, surges, transients and neutral, to a minimum.

Isolation transformer is one that contains two windings: Primary and Secondary winding, that are separated from each other but wound on the same Iron core. The secondary that governs the output is, in this manner, separated from the input. Input and output are totally independent of each other except for the magnetic linkage between the two.

Owing to inductive loads, capacitive loads, SMPS loads, electronic ballasts and with PWM Switching systems, the present AC Power lines are superimposed with dangerous spikes, Surges, transients, sags and RFI noise and harmonics. As a result failure rates of electronic equipment are on the rise. Without adequate protection, All electronic equipment is at a great RISK.

Key Features of PUREVOLT Isolation Transformer :

- High efficiency, high reliability and accuracy. Compact, rugged in construction, free standing, floor mounting model and housed in sturdy metal casing with sufficient ventilations.
- High insulation values.
- Suitable for use with modern sophisticated micro processor based equipment, CNC machines, computers and other Industrial processing.
- Isolates the equipment from noisy power line.
- Reduces Power line noise, surges, spikes & transient.
- Provides the complete electromagnetic & electro static shielding

The results of an Ultra Isolation transformer are:

- It provides a perfectly balanced neutral at 'zero' potential and neutral can be used by grounding it.
- The supply of the output is free from all surges/spikes and so called electrical noise, which predominantly is present on the input side.
- Since the output is totally isolated from the input, any short circuits or faults on the primary side are not reflected on the secondary, thus avoiding damage to the sensitive electrical equipment.



Technical Information

Input Range	Output Range	Ratings Available
415V AC 3-Ph	415 V AC 3-Ph	1KVA 3-Ph to 500 KVA 3-Ph
415V AC 3-Ph	220 V AC 3-Ph	1KVA 3-Ph to 500 KVA 3-Ph
230 V AC 1-Ph	230 V AC 1-Ph	500VA 1-Ph to 200 KVA 1-Ph
230 V AC 1-Ph	110 V AC 1-Ph	500VA 1-Ph to 200 KVA 1-Ph

Technical Specifications

Sr. No	System Connections	Delta / Star or Star / Delta or Delta / Delta
01	Ratios	1:1 and 2:1
02	Regulation	Better than 3.5 %
03	Di-electric strength	2500 V AC for 120 Sec
04	Insulation resistance	More than 1000 Mega Ohms
05	Coupling Capacitance	0.1 PF for 100 db
06	Common Model attenuation	100 db
07	Construction Standards	As per IS 2026