

1 KVA – 5000 KVA

Servo Voltage Stabilisers

Servo voltage stabilisers from 1 kVA to 5000 kVA — stepless correction by copper-wound variac, $\pm 1\%$ output regulation and full protection, built to IS 9815 for sites where the incoming supply will not hold its voltage.

RANGE

1 – 5000 kVA

REGULATION

$\pm 1\%$ output

STANDARD

IS 9815 (Part 1)



Core-and-coil assembly bay

Correction without steps.

A servo stabiliser holds the output voltage steady by continuously varying a motorised variac, rather than switching between fixed taps. That gives smooth correction with no waveform distortion and no switching transient — which matters when the load is a CNC machine, a medical imaging system or a process line rather than a lighting circuit.

Three-phase units are built either as a single-variator design, correcting all three phases together, or as a three-variator design correcting each phase independently. The three-variator construction is the one to specify where the incoming supply is unbalanced, which on most Indian industrial feeders it is.

$\pm 1\%$ output

Regulation held across the full input range.

1 – 5000 kVA

Single phase from 1 kVA; three phase to 5000 kVA.

Per-phase correction

Three-variator construction for unbalanced supplies.

INDUSTRY

Process plant

Machine tools, packaging and process lines.

HEALTHCARE

Medical equipment

Imaging and diagnostic installations.

COMMERCIAL

Buildings

Hotels, malls and office complexes.

AGRICULTURE

Pump sets

Rural installations on weak feeders.

Fields marked "On enquiry" are issued against a specific enquiry. Full specification, reference tables and fittings: aggarwalglobal.com/products/servo-stabilisers.html

GENERAL

Rated capacity	1 kVA to 25 kVA single phase; 10 kVA to 5000 kVA three phase
Phases	Single phase and three phase
Cooling	Air natural (AN) on smaller ratings; oil natural (ONAN) on larger
Frequency	50 / 60 Hz $\pm$ 5%
Duty	Continuous, 24 hours
Mounting	Floor mounting, indoor or outdoor enclosure
Applicable standards	IS 9815, IS 2026 for the internal transformer, IS 335 for oil

ELECTRICAL

Input range, three phase (line)	340–460 V, 300–460 V, 250–460 V or 150–460 V — specify
Input range, three phase (phase)	90–270 V, or narrower bands to order
Input range, single phase	140–270 V
Output voltage	380 / 400 / 415 V $\pm$ 1% three phase; 230 V $\pm$ 1% single phase
Correction rate	10 to 60 V per second — specify
Response time	Under 20 milliseconds
Efficiency	Above 96% at full load
Overload capacity	110%

STANDARDS

IS 9815 (Part 1)	Servo-motor operated automatic line voltage correctors
IS 2026 (Parts 1–5)	Power transformers — governs the internal transformer and variac
IS 335:2018	Insulating mineral oil, for oil-cooled ratings
IS/IEC 60529	Degrees of protection provided by enclosures — the IP code
IS 5:2007	Colours for ready-mixed paints and enamels

ROUTINE TESTS ON EVERY UNIT

- Input and output voltage verification across the full input range
- Output regulation accuracy at no load and full load
- Correction rate measurement
- Efficiency measurement at full load
- Insulation resistance
- High voltage withstand test



ENQUIRIES

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