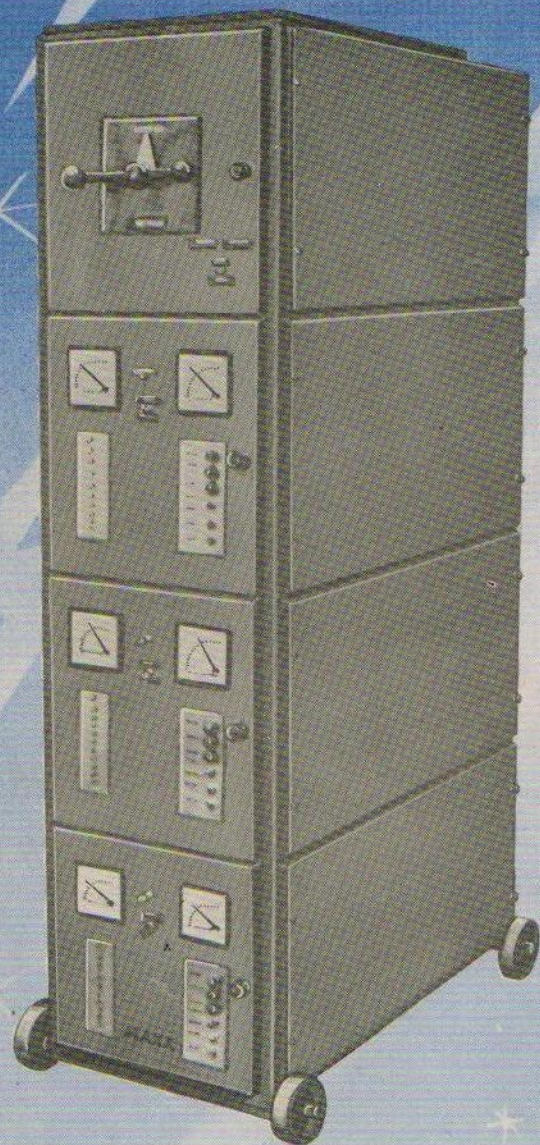


MAXX

SERVO CONTROLLED VOLTAGE STABILIZERS



MAX SYSTEMS PVT. LTD.

A-118, Second Floor Lajpat Nagar-I New Delhi-110024 Phone: 6837076

MAXX

SERVO CONTROLLED VOLTAGE STABILIZERS

SINGLE-PHASE APPLICATION

SPECIFICATION

We live up to them

Input Voltage	: 170V-270V
Output Voltage	: 230V AC nominally adjustable between 200V and 240V AC
Supply frequency	: 47-53Hz
Waveform distortion	: No distortion introduced by the stabilizer
Effect of load power factor	: None
Environment	: Designed for indoor tropical continuous use at 35C ambient.

FEATURES:

- 1% regulation from no load to full load for complete range of input voltage.
- High efficiency—greater than 95%.
- No waveform distortion introduced by stabilizer.
- Load Power Factor variations do not affect performance.
- In case of control card failure manual control of output voltage is possible from front panel.
- Built-in meter to monitor output and input voltage.
- Ease of serviceability through interchangeable plug-in control circuit module.
- Use of AC motor enables a high correction rate.
- Reliable Solid State Control Circuitry using integrated circuitry.
- No relays.

APPLICATIONS:

Communication Devices: Radio Transmitters, Television Cameras, Video Recorders, Radar Navigational Devices.

Computers: Computers and Calculating Machines, Peripherals like Tape and Disc Devices, Printers, Card Punches, Unit Record Machines.

General Laboratory Equipments: Spectrometers, Electron Microscopes, Spectrophotometers, Photographic Processing Equipment, Chromatographs etc.

Medical Electronic Equipments: X-ray Intensive Care Units, Electro Cardioscopes, Sterilizers, Cat Scanners, X-ray Machines.

General: Heating, Lighting, production and Process Control Equipment, Machine Tools, Lifts and Elevators, Airconditioning Plants and Package Airconditioning Units.

PRINCIPLE OF OPERATION

The MAXX Servo Stabilizer employs a motor-driven variable transformer feeding the primary winding of a buck-and-boost transformer, the secondary of which is connected in series between the supply and the load, so as to inject an aiding or opposing correcting voltage into the supply line.

Motor positioning is effected by the solid state sensor unit, which measures the output voltage of the stabilizer. Should this deviate from the required value, the sensor energises the motor to rotate the variable transformer brush gear unit the correct voltage is restored.

The method of stabilisation inherently produces no harmonics and therefore no distortion is introduced. Sensing from the output automatically compensates for any change in load current.

The action of the servo system is exceptionally fast with controlled deceleration resulting in zero or minimum overshoot.

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