

Voltage Control Components & Power Quality Solutions

Power Quality Solutions

Broadcast
Medical
Marine
Industrial
Radar
Shore Power

Voltage Control Components

Lab Test Sets
Meter Calibration
Electro-Plating
AC/DC Power Supplies
Load Banks
Power Factor Correction
Motor Testing
Audio/Video Equipment
Vibratory Feeder Bowls



**Superior
Electric**

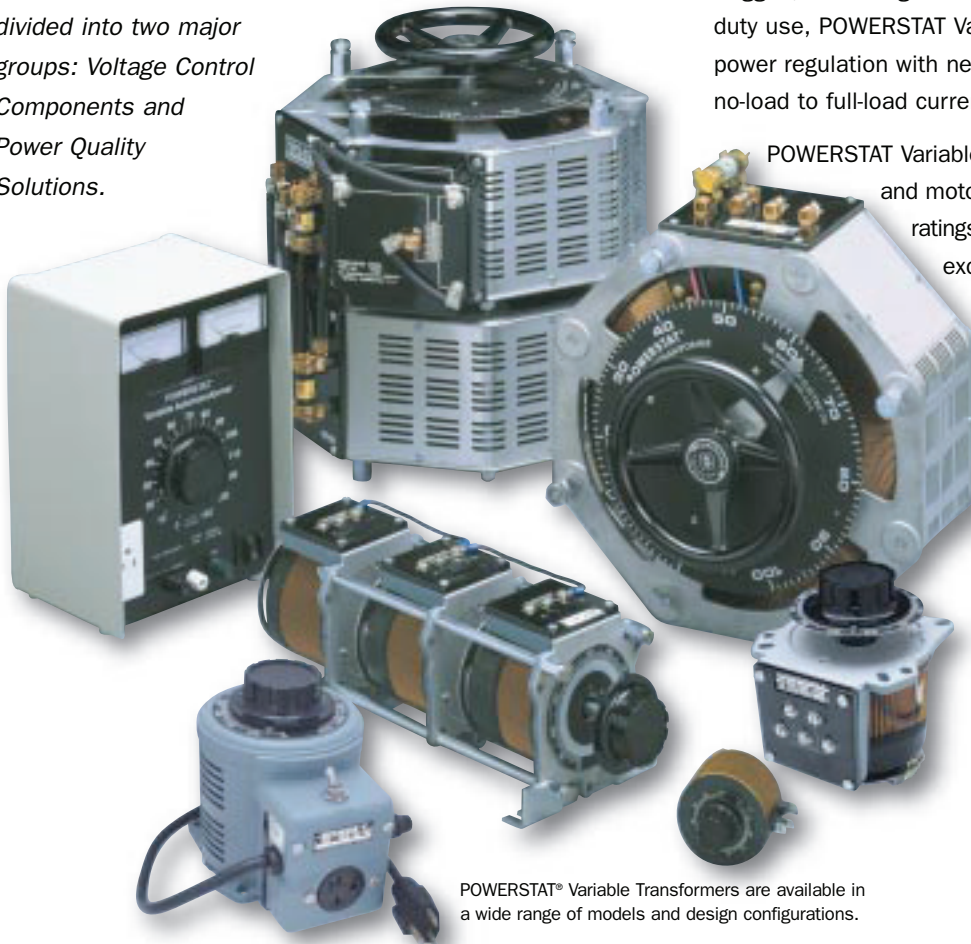
Voltage Control Components & Power Quality Solutions



 **Superior Electric** has been manufacturing and marketing voltage control and conditioning equipment since 1938. Product diversity, quality and a strong, customer-focused sales and distribution network make Superior Electric a highly respected market and industry leader. Our customers have seen fit to classify our products as “top of the line.” We take great pride in this.

For almost as many years, Distribution has been a means of marketing Superior Electric products. We are equally proud to be considered by our Distributors and Resellers a “blue chip” line.

Our extensive product offering is divided into two major groups: Voltage Control Components and Power Quality Solutions.



Voltage Control Components

POWERSTAT® Variable Transformers

The flagship voltage control product offered by Superior Electric, POWERSTAT® Variable Transformers provide a simple, rugged method of controlling electrical voltage, current and power. They take in utility line voltage and provide continuously adjustable output voltage.



Rugged, and designed for heavy-duty use, POWERSTAT Variable Transformers provide excellent power regulation with negligible variation in output voltage from no-load to full-load current.

POWERSTAT Variable Transformers are available in both manual and motor-driven options. They provide high current ratings, long life, superior overload capacity and exceptional resistance to contaminants such as fungus and salt spray.

Key Applications:

- ◆ Electro-Plating
- ◆ Induction Heating
- ◆ Ultrasonic Generators
- ◆ Vibratory Feeders
- ◆ Load Banks
- ◆ Battery Chargers
- ◆ Motor Testing
- ◆ Utility Meter Calibration

POWERSTAT® Variable Transformers are available in a wide range of models and design configurations.



SUPERCON Electrical Connectors provide a "positive grip" for reliable performance every time.



5-WAY® Binding Posts

The original 5-WAY® Binding Post is the first choice of electrical equipment manufacturers, design engineers and technicians. They are available in hex or fluted thumbnuts, single and double assembly, in a wide variety of colors with ratings of 15 and 30 ampere.

The limited opening captive thumbnuts allow enough space to make connections, yet reduce the possibility of accidental contact with electrically energized surfaces. The current-carrying parts are available in gold, tin or nickel-plate-brass. There are multiple ways to connect 5-WAY Binding Posts — including soldering — for maximum use flexibility.

SUPERCON® Electrical Connectors

These connectors are designed to provide safe, rapid and positive panel-board electrical connections. Socket and pin types are available in 25, 50, 100 and 250 amp capacities.

Connectors have a uniquely designed grip for handling ease and convenience. Wiring connections can be either soldered or solderless. Cable fastening screws that permit a range of cable sizes are provided.

SUPERCON Electrical Connectors have color-matched nylon caps and bodies. All plastic parts are molded through in the same color to permit more rapid and accurate circuit identification on both the front and back of the panel.

Key Applications:

- ◆ Audio Amplifiers and Speakers
- ◆ Automotive Electronics
- ◆ Test and Measurement Apparatus
- ◆ Patch Panels

Power Quality Solutions

STABILINE® WHR Series Automatic Voltage Regulators

The WHR Series is the most extensive line of voltage regulators Superior Electric has ever offered. For use on all AC power systems, up to 660 volt, currently in use throughout the world. All models utilize our core product technology of special POWERSTAT® Variable Transformers which have been uniquely designed for regulator use.

This Limited Range coil design allows for substantially higher current and power ratings without increasing unit size or weight. This is accomplished by utilizing a "limited" portion of the coil windings to provide regulation. The design allows for direct control of the output voltage without the need of secondary devices such as buck/boost transformers and tap switching semiconductors.

WHR Series STABILINE Voltage Regulators maintain constant voltage to your equipment, even when the input voltage and system load

vary widely. Modular construction is key to our ability to offer such a wide variety of regulators with excellent quality, fast delivery and competitive pricing.



Features:

- ◆ Tight Output Accuracy ($\pm 1\%$ to 3%)
- ◆ Two Input Correction Ranges (Narrow & Wide)
- ◆ Power Ratings to 1680 kVA
- ◆ Single and 3-Phase Models
- ◆ Floor and Rack Mount Models
- ◆ Single and Individual Phase Control Models
- ◆ 25 Standard Options



STABILINE® Transient Voltage Surge Suppressors

CS1 (Cabinet) Series — Models are parallel connected TVSS devices that offer “all mode” protection for applications from the highest to lowest exposure levels. Designed for virtually any commercial or industrial environment where protection of mission critical equipment can be provided for at the service entrance and/or branch panel. Depending upon location, select from 60,000 to 300,000 Surge Amp Capacity models.

In addition to withstanding transients of large magnitudes, these suppression filter systems are built to endure repetitive transient conditions. Heavy-duty filter capacitors, solid copper bus construction, fuse sensing circuitry and separately fused MOVs ensure seamless product performance and reliability.

STABILINE® Uninterruptible Power Supplies

SEG Series True On-Line UPS — True Regenerative On-Line technology provides the highest level of protection against a broader spectrum of power problems. This is accomplished through converting the incoming AC utility voltage to a regulated DC voltage. From this DC voltage, a new AC voltage is regenerated by the UPS, providing a clean sinewave and tightly regulated source to connected equipment. Offered in 120 and 230 VAC, Cabinet and 19-Inch Rack Mount, from 1kVA to 6kVA ratings.



SEM Series Line Interactive Step Wave UPS — New step wave Line Interactive technology via a microprocessor controlled buck/boost regulation array. SEM Series provide affordable voltage regulation, surge suppression and battery backup. Available in 300 and 500 VA models, 120 and 230 VAC.



SW Series Line Interactive UPS — Economical Line Interactive “Buck and Double Boost” technology ensures consistent pure sinewave output voltage to critical loads without using batteries.

Enhanced battery management design doubles battery service life, optimizes recharge time and provides advance warning of pending battery failure.

Hot swappable batteries, cold start feature included with all Cabinet and 19-Inch Rack Mount models in ratings from 1kVA to 3kVA.



STABILINE® Power Conditioners

Portable Power Conditioners utilize ferroresonant design technology to provide protection from noise, spikes, transients and brownouts. The key to its performance is the energy storing properties of the isolated and saturated transformer/capacitor network which provide regulation, isolation, noise rejection and 3 milliseconds of ride-through capability. Available in 110 to 1800 VA models.



Key Applications:

WHR Series —

- ◆ Broadcast Transmitters, Studios, Mobile Vehicles
- ◆ Medical and Industrial Diagnostic Imaging
- ◆ Telecommunications Receiving & Uplink Equipment

CS1 Series —

- ◆ Electrical Service Entrance, Branch Panel and Distribution Panel

UPS —

- ◆ SEG – Mission Critical Broadcast, Medical and Industrial Electronic Equipment
- ◆ SW – Sensitive Broadcast, Commercial and Industrial Equipment
- ◆ SEM – Personal Computers, POS Systems, Cash Registers, Workstations

Power Conditioners —

- ◆ Cash Registers, Digital Scales, POS Terminals

Available Coast-to-Coast and Internationally

Voltage Control Components

POWERSTAT® Variable Transformers

LUXTROL® Lighting Controls

5-WAY® Binding Posts

SUPERCON® Electrical Connectors

Voltage Control Components are available worldwide through an extensive Authorized Stocking Distributor network. These Distributors offer literature, technical assistance and a wide range of models off-the-shelf for fastest possible delivery and service.

Power Quality Solutions

STABILINE® Automatic Voltage Regulators

STABILINE® Transient Voltage Surge Suppressors

STABILINE® Uninterruptible Power Supplies

STABILINE® Power Conditioners

STABILINE Power Quality Solutions are available worldwide through an extensive Authorized Distributor and Reseller network which offer literature, technical assistance and a select range of models off-the-shelf for fastest possible delivery and service.

In addition, Superior Electric Manufacturer's Representatives are available to provide prompt attention to customer needs. Call or fax for ordering and application information or for the address of the closest Manufacturer's Representative, Authorized Distributor or Reseller.



Superior Electric

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Product Application 860-507-2025, Ext. 72058

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**Product Diversity and Quality.
Strong, Customer-Focused
Sales and Distribution Network.**