

# UST

Utility Systems Technologies, Inc.

# Sure-Volt™

Power Conditioner – Electronic Voltage Regulator

## Protects your equipment from:

- Over/Undervoltage
- Voltage Fluctuations
- Sags • Dips
- Line Noise • Swells
- Phase Imbalance
- Short Circuits
- Brownouts • Surges

## For virtually any application:

- Sizes 5 to 1500 kVA
- 50 Hz • 60 Hz
- Any voltage up to 600VAC
- Step Up • Step Down
- Single Phase • Three Phase
- Compatible with all load types
- Indoor • Outdoor • Dirty Locations



Quality Power. Better Business.



The Sure-Volt ships fully assembled, just wire it up! No programming, adjusting, setup or assembly needed.



Power quality problems can occur anywhere, anytime. Evidence of these problems can be as obvious as electrical components that are damaged or fail prematurely or as subtle as equipment that randomly malfunctions. The real problem with poor power is how much it costs in terms of damaged equipment, lost productivity, scrap, missed schedules, etc. The Sure-Volt™ protects your equipment and bottom line from the most common power problems.

The Sure-Volt™ is a heavy duty power conditioner designed to provide effective and reliable operation, even under the most severe conditions. The industry-leading overload capacity of the Sure-Volt™ makes it ideal for those applications with large motor, transformer or magnetic loads with high inrush current or poor power factor.

The Sure-Volt™ utilizes microprocessor-based controls that electronically switch taps on a shielded, isolation transformer to provide a tightly regulated output voltage. When the incoming voltage varies between +10% and -25% of the nominal input voltage, the Sure-Volt™ responds within 1 cycle to provide an output within ±3% of the nominal output voltage.

**Typical applications include:**

- Manufacturing • Machining
- Industrial Automation • Mining
- Pharmaceutical • Petrochemical
- Food Processing • Broadcasting
- Power Generation & Transmission
- Schools • Offices • Labs
- Printing • Pulp & Paper
- Medical Imaging & Treatment

**The Sure-Volt™ difference:**

**Highest Overload Capacity**

Overload is a measure of the durability of a regulator and its capacity to handle tough power situations. The Sure-Volt™ provides 1000% overload for 1 second—the highest available.

**Eliminates Tap Switching Problems**

When switching taps, conventional regulators can create large voltage transients because the current flow to the load is interrupted. The Sure-Volt™ maintains current flow to the load during tap switching and eliminates the associated transients.

**Easy Application**

The Sure-Volt™ is compatible with all load types and has no restrictions on minimum load, power factor or inrush current. Coordination with other circuit protection is easy with its 1000% minimum fault clearing capacity.

**Automatic Electronic Bypass**

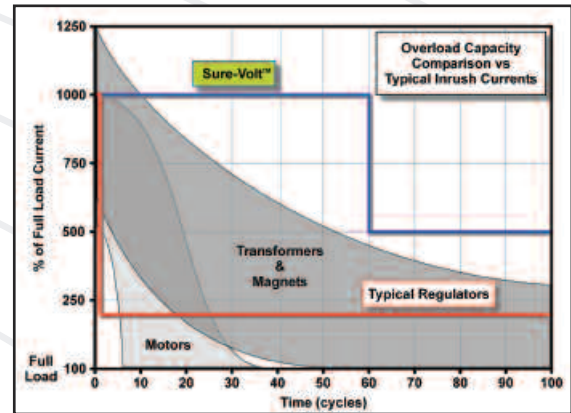
The standard automatic electronic bypass maintains power to the load equipment and all unit functionality, except regulation, in the event of a problem.

**No Full Power Semiconductors**

The electronic switches used in other voltage regulators are easily damaged by operation above their rated capacity. The design of the Sure-Volt™ assures that its semiconductors are never exposed to damaging currents.

**Fan-Free and Maintenance-Free**

The unique and robust design of the Sure-Volt™ does away with the need for cooling fans and their associated problems. The all solid state design also means there are no replacement parts or scheduled maintenance.



The high overload capacity of the Sure-Volt™ makes it the ideal choice for high inrush current and severe duty applications.



**UTILITY SYSTEMS TECHNOLOGIES, INC.**

PO BOX 110, Latham, New York 12110 USA

phone: 888-403-9084 OR 518-377-8550  
fax: 518-347-2207

email: sales@ustpower.com  
website: www.ustpower.com

© 2007, Utility Systems Technologies, Inc. All Rights Reserved Sure Volt is a trademark of Utility Systems Technologies, Inc. for its line of electronic voltage regulator products