

UST

Utility Systems Technologies, Inc.

Mini-EVR™

Energy Saving Voltage Regulator

Protects your equipment from:

- Over/Undervoltage
- Voltage Fluctuations
- Sags • Dips • Swells
- Brownouts • Surges

For single phase application:

- Sizes 2 to 25 kVA
- Any voltage up to 600VAC
- 50 Hz • 60 Hz
- All load types
- All power factors
- 1000% fault clearing capacity
- No over-sizing required
- 99% efficiency
- Cool, quiet operation
- Indoor • Outdoor • Dirty Locations



Quality Power. Better Business.



Small and lightweight, the Mini-EVR™ comes ready for easy wall mounting



The Mini-EVR™ protects your electrical equipment from power quality problems like sags, brownouts, surges and swells without the heat, noise and high electric bills that come with traditional voltage regulators. Conveniently sized for small, single phase applications, the Mini-EVR™ is compatible with all types of equipment and all power factors.

The Mini-EVR's 99% efficiency can save thousands of dollars per year in energy costs by dramatically reducing energy consumption compared to conventional constant voltage transformers (CVT, ferroresonant transformer, ferros). Typical retrofit applications can have a payback in energy costs in 6 to 18 months.

Its high overload capacity eliminates the need to over-size the Mini-EVR™ to account for large inrush currents or fault clearing currents. The small size, light weight, quiet operation, low heat rejection and optional enclosures for outdoor or hazardous locations make it very easy to apply and install.

The Mini-EVR™ utilizes microprocessor-based controls that electronically switch transformer taps to provide a tightly regulated output voltage. When the incoming voltage varies between +10% and -25% of the nominal input voltage, the Mini-EVR™ 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 Mini-EVR™ difference:

Heavy Duty Voltage Regulation

Not to be confused with the pervasive power factor correction products that claim to save energy, the Mini-EVR™ is first and foremost an industrial-grade voltage regulator and power conditioner. It simply conditions power with an ultra-high efficiency.

Highest Overload Capacity

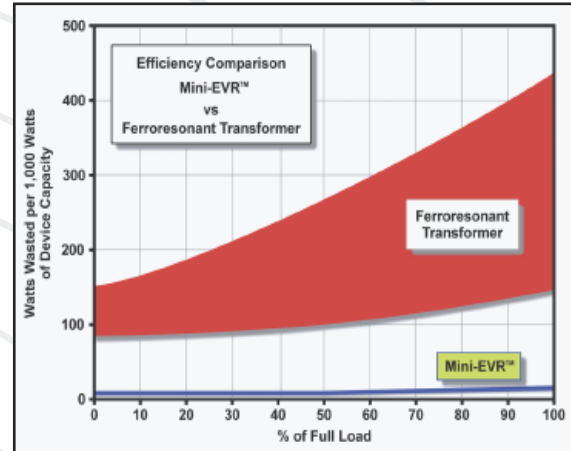
Loads with high inrush currents such as motors or transformers usually require conventional voltage regulators to be 2 or 3 times oversized. The very high overload capacity of the Mini-EVR™ eliminates the need for this over-sizing; just size for the steady state current.

Energy Saving Efficiency

Ferroresonant transformers are very noisy and hot, even at no load. That noise and heat is the result of 10 to 50% of the electricity being wasted. Compare that to the minimal 1% electrical loss of the Mini-EVR™ and it is easy to see how much energy can be saved.

Flexible Installation – Maintenance-Free

Because of its low heat rejection, the Mini-EVR™ can be easily supplied with enclosures for outdoor or hazardous locations or supplied without an enclosure for OEM applications. The all solid state design requires no scheduled maintenance or replacement parts.



The energy saving efficiency of the Mini-EVR™ remains nearly constant across the load range while that of the ferroresonant transformer drops rapidly as the load is decreased.



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