



HARMONICS LIMITED
The GreenWay to Sustained Energy Savings
by *Jefferson Electric*

When your goal is energy efficiency, the solution is **SystemMax®**.

Boost your building's efficiency and reduce costs with SystemMax, the most effective way to retrofit energy savings into your facility.

Retrofitting efficiency into your distribution system can be tricky, but not with SystemMax. SystemMax is a patented Harmonic Suppression System that totally eliminates damaging 3rd-harmonic currents system-wide. You'll reclaim usable capacity, boost reliability, and get sustained energy savings like never before. Best of all, SystemMax starts cutting costs from the instant it's installed.

How can SystemMax be the solution to your facility's energy retrofit? Take a look.

SystemMax Saves Energy

SystemMax is the only technology that conquers energy waste at the source: the switch-mode power supplies used in the computers, servers, office machines and other high tech equipment which generate harmful 3rd-harmonic currents. From the moment you connect SystemMax to your transformers, damaging harmonics are eliminated. The result? A system-wide eradication of energy-wasting harmonic currents that shrink capacity, lessen reliability and send energy costs sky-high.

Your distribution system now has more capacity to handle more loads—even in older buildings with downsized neutrals, and in facilities not designed to support today's high-tech demands. Plus, with SystemMax your facility can earn LEED credits and meet important targets toward becoming a "green" building.

SystemMax Cuts Costs

SystemMax cuts costs by eradicating 3rd-harmonic currents and the money-wasting heat they generate. That means:

- **Energy bills drop as much as 8%**, with reduced waste and cooling expense;
- **Expensive service calls decline**, with better system reliability;
- **Over-sized transformers and conduits become obsolete**, with a "right-sized" distribution system that handles more loads;
- **Sustainable efficiency grows**, with a patented solution that can pay for itself in 15 months, even as energy costs rise.

SystemMax can reduce the cost of your project itself. Instead of replacing a hot transformer with a new one, simply connect SystemMax. Immediately upon installation, you'll restore reliability and start saving energy.



SystemMax Solves the Real Problem

Maybe you've tried to mitigate harmonics by oversizing the transformers, conduits, switchgear, and by doubling the neutral wires—in an attempt to "accommodate" the excess heat. Or, you may have considered harmonic-mitigating (or "zig-zag") transformers, which claim to cancel out harmonic currents in the transformer's primary and secondary windings.

SystemMax does more, by entirely eliminating harmonic currents from everywhere within the power distribution system—by stopping their generation at the source. You get less heat, less waste, lower bills and a real solution that pays for itself in months.

Reap the rewards of a retrofit done right—with SystemMax

With SystemMax, it's easy to boost efficiency. Installation can be performed by your own licensed electrician. Connecting SystemMax to your transformer takes about four hours; the downtime required is typically less than an hour.

Once installed, your facility immediately achieves:

- Increased energy efficiency
- Improved system reliability and safety
- Restored transformer capacity
- Sustained energy savings over the life of the system

Harmonics Limited: The Leader in Harmonic Suppression Technology

For over 15 years, Harmonics Limited has been helping facilities save energy with SystemMax. We've helped customers in the private and public sectors—schools, hospitals, universities, financial institutions, media companies, and others—earn LEED points and other credits, and meet the regulatory requirements of mandates like E-013423 and EISA 2007.

Ready to save with SystemMax?
Visit www.HarmonicsLimited.com
or call 1 (800) 892-3755 to speak with a
SystemMax sales representative today.



Retrofit existing transformers for immediate energy and cost savings.

Right now, SystemMax is helping facilities like these boost efficiency and save money.

- Schools, Colleges & Universities
- Hospitals & Health Care
- Media & Entertainment
- Financial Services & Banking
- Gaming & Casinos
- Data Centers & High Tech
- Commercial Real Estate
- Government

SystemMax Specifications

Power Requirements	None: Completely passive operation
Available Sizes	30kVA to 1000kVA
Enclosure	Steel enclosure with ANSI-61 grey paint
Enclosure Type	UL/NEMA
Electrical System	3-phase, 4-wire type
Ambient Range	-20°C to 40°C

The Harmonics Guarantee

Harmonics Limited products are warranted to be free from defects in materials and workmanship under normal use and service for a period of five years from the date of purchase. Our products are UL certified. We are proud members of the U.S. Green Building Council. www.usgbc.org.



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Jefferson Electric
Specialists in transformers
since 1915

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