

**YOUR HOME'S PRESCRIPTION
FOR CONSERVING ENERGY,
SAVING MONEY, AND PROTECTING
APPLIANCES AND ELECTRONICS.**

POWERWORX™ e³

WHOLE HOUSE ENERGY MANAGEMENT SYSTEM



CONSERVE ENERGY, SAVE MONEY, AND PROTECT YOUR ELECTRONICS AND APPLIANCES ... EFFORTLESSLY!



It's time to face the facts. Energy costs are on the rise, and the use of electronics in our homes is growing exponentially. To add insult to injury, every day, the appliances and electronic devices in our homes are under attack from surges, spikes and electrical noise. The time is now for a Whole House Energy Management System.

Say, "Hello!" to the PowerwoRx e³, a clean power system based on the same technology that has been used for years by big industry and utility companies. The PowerwoRx e³ provides your home with:

- power conditioning abilities that translate directly into savings
- an easy installation that creates immediate benefits
- a cost-effective solution that is amazingly maintenance-free

WHOLE HOUSE ENERGY MANAGEMENT I

1. SAVE MONEY BY ELIMINATING WASTED ELECTRICAL CONSUMPTION

THE PROBLEM:

Most motorized home appliances (air conditioning units, refrigerators, freezers, ceiling fans, washers, dryers, dishwashers, pool pumps, vacuum cleaners, furnace blowers, etc.) operate most efficiently when they're operating at full capacity. When they're not working at full capacity they pull more energy than they use, wasting the difference. And let's face it, rarely does any appliance or device in your home constantly work at full capacity. In fact, the average home in America today operates at a power factor of .77. That means 23% of the electricity being delivered to the home is being wasted by the use of motorized appliances working at less than capacity.

THE POWERWORX SOLUTION - POWER FACTOR OPTIMIZATION:

The PowerwoRx e³ unit increases that power factor, in most cases, to .97 or .98, therefore increasing the effective use of your electricity and lowering your usage.

THE POWERWORX BENEFITS:

When the PowerwoRx e³ increases the efficiency of electrical use in the home and lowers power consumption waste, you're not only helping the planet, you're helping your pocketbook by decreasing your energy bill.

2. PROTECT APPLIANCES AND ELECTRONICS FROM THE DAMAGE CAUSED BY VOLTAGE SPIKES

THE PROBLEM:

Typical residential and light commercial power sources allow literally hundreds of spikes and surges per day to reach valuable, and often times sensitive, electronic equipment in your home. These voltage spikes come from many different sources (motors, power fluctuations, static electricity, lightning, etc.) but can all cause damage to televisions, stereos, computers, DVRs, security systems, cordless phones, florescent lamps, etc.

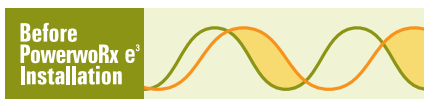
THE POWERWORX SOLUTION - DUAL-MODE SURGE SUPPRESSION:

The PowerwoRx e³ operates in a dual-mode for surge suppression, alternating between two different types of protection, depending on the circumstances. In the standard mode, PowerwoRx uses MOVs (Metal Oxide Varistors) to act as a sort of "pressure relief valve," diverting the surge to the neutral/ground lines. However, should a massive surge (like the kind produced by a direct lightning strike) attempt to pass through PowerwoRx, it switches into fail-safe mode, cutting off the flow of electricity and blocking the surge from getting into your home.

THE POWERWORX BENEFIT:

Because the PowerwoRx e³ works to divert countless surges trying to enter your home, damage from these surges is kept to a minimum, prolonging the operating life of your appliances and electronic devices.

POWER FACTOR OPTIMIZATION BEFORE & AFTER POWERWORX e³



Power inflow and power draw are out of phase.
LOW POWER FACTOR = HIGH ENERGY WASTE



Power inflow and power draw are closer in phase.
HIGH POWER FACTOR = LOW ENERGY WASTE

— Power Flow Into Home
— Power Draw Inside Home
■ Wasted Electricity

AS EASY AS 1, 2, 3!

3. PROLONG THE LIFE OF APPLIANCES AND ELECTRONICS BY REDUCING ELECTRICAL “NOISE”

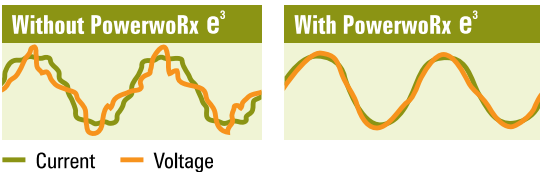
THE PROBLEM:

Our homes, businesses and factories are filled with electronic devices that generate “noise.” It’s this noise that’s responsible for that all-too-familiar static you hear on your home radio receiver, the “hum” of a florescent lamp, or the “snow” you see when a TV produces a weak signal. And those are just examples of the electric noise we can see and hear. Imagine how much noise is coming from everything else in your home that you can’t see or hear. What you also can’t see or hear is the damage this noise does to switching power supplies, causing premature failure.

THE POWERWORX SOLUTION - HARMONIC FILTRATION:

Designed to filter harmonics and high frequency current (trash) from the electrical environment, harmonic filtration reduces the potential for leakage into the human environment and the creation of additional trash in non-linear loads (televisions, computers, variable frequency drives, energy-efficient lighting, etc.). This technology has been around for nearly a hundred years, and has been in use by industrial and utility companies for quite some time. However, only recently has this technology become available on a smaller scale, and we are proud to bring it to you in the PowerwoRx e³.

HARMFUL ELECTRICAL NOISE WITH & WITHOUT POWERWORX e³



THE POWERWORX BENEFITS:

By reducing the electrical noise and trash current in your home, the PowerwoRx e³ helps protect the switching power supplies, helping prevent premature failure and prolonging the life of your appliances and electronic devices.



Will the PowerwoRx e³ affect any of my appliances and their normal use?

No. If anything, your motors will run about 10% cooler, which is good because heat is the enemy of a motor.

Is the PowerwoRx e³ tested and approved by independent labs?

Yes. The PowerwoRx e³ is UL listed and tested. Also, the technology is recognized by the U.S. Department of Energy.

How much can I expect to save per month by using the PowerwoRx e³?

Your savings will depend on the factors in your home—the size of your home, the amount of inductive motor load, the amount you are paying per kilowatt-hour for electricity, etc. However, generally speaking, the average savings is somewhere in the 8% to 15% range, and in some cases up to 25%.

How long will it take for the PowerwoRx e³ to pay for itself?

This depends on your individual circumstances, number and age of appliances, electrical costs, and usage patterns, but most units are paid for within 2-3 years.

Is the PowerwoRx e³ easy to install?

Yes, but the PowerwoRx must be installed by a licensed electrician. Installation requires opening the electrical panel, exposing potentially dangerous high voltage wires. The unit comes with complete installation instructions and installs in about 15-30 minutes.

How long will the PowerwoRx e³ last?

It has a predicted lifespan of over 20 years.

Why haven't I heard of these products until now?

That's easy; two words – “cost effectiveness.” Up until recently, electric rates throughout America were cheap, costing us 2, 3 or 4 cents per kilowatt-hour (kWh). Now electric rates are anywhere between 8 and 14 cents per kWh. In some places, the rate is over 19 cents per kWh. For example, New York City is 22 cents per kWh and Hawaii is 33.5! At the cheaper rates, the PowerwoRx e³ did not make sense. But at the current rates, it makes all the sense in the world.

DID YOU KNOW?



Electricity usage has increased by 60% since 1985 and is expected to grow by an additional 45% by 2030.

The use of electronics within the American home has been growing at an exponential rate and we are constantly demanding more and more of our home's electrical system.

The price per Kilowatt hour has gone from an average of 2 cents to 10 cents over the past 40 years.

Energy and energy pricing are now seen as the most important issues facing the U.S.



Our homes and businesses are filled with electronic devices that generate "electronic noise" that is harmful to these very same devices.

The noise created by these devices breaks down the switching power supplies, causing premature failure.

This wasteful electronic noise drains more wattage than it uses, adding unnecessarily to your electric bill.



Typical residential and light commercial power sources allow literally hundreds of spikes and surges a day.

These spikes and surges shorten the lifespan of valuable and sensitive electronic equipment.



The technology to counter the harmful and wasteful effects of spikes, surges and noise has been used by industry and utility companies for years, but is only now practical for home use.



Is the PowerwoRx e³ right for your home?

The PowerwoRx e³ will work in any home, as long as you have a circuit breaker panel with breaker switches and not the old screw in type fuses, and the unit will work on any single-phase electric application for your home. Also, if you say "yes," to only two or more of the following, then you could be saving a significant amount of money on your electric bill right now!

Is your home over 2,500 square feet?

*Is your central air conditioner/
heat pump unit 3 years or older?*

Is your forced air furnace 3 years or older?

Do you have a pool?

Do you have a well?

Do you use an air conditioner?

Is your refrigerator/freezer not EnergyStar rated?

Do you have more than one refrigerator/freezer?

Is your washer/dryer not EnergyStar rated?

Do you have a hot tub or Jacuzzi?

Is your dishwasher not EnergyStar rated?

*Do you have a number
of appliances in your home?*

We noticed a big difference right away. Our new TVs and computers are performing better, our phones are clearer, and our electric bills are going down. Plus, it's nice to know you're doing something good for the environment.

POWERWORX e³ SPECIFICATIONS

UNIT MODEL	E3-1R240
POWER LINE VOLTAGE (VAC)	120/240
PHASE CONFIGURATION	single
FREQUENCY (Hz)	50-60
POWER DISSIPATION (J) (2ms current wave)	550J
PEAK PULSE CURRENT (A) (8/20 microsecond current wave)	40,000
MAXIMUM CLAMPING (V) (@ 200Am 8/20 microsecond current wave)	340/690
TOTAL CAPACITANCE (uF)	30
OPERATING TEMPERATURE (°C)	-40 to +70
LINE WIRES (AWG)	12
CIRCUIT BREAKER REQUIRED (A)	20
DIMENSIONS (WxDxH)	3"x9"x5"
WEIGHT (lbs.)	6



This product has been independently tested and the technology is certified by the U.S. government.



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