

**POWER CONDITIONING,
ELECTRONICS PROTECTION,
& ENERGY CONSERVATION
FOR YOUR ENTIRE HOME.**



EcoPower4
POWER CONDITIONING FOR YOUR HOME

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

INCLUDES
10 YEAR
\$25,000
LIMITED
WARRANTY



It's time to face the facts. Energy usage is on the rise, and the use of electronics in our homes is growing exponentially. 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.

Introducing EcoPower4™, a clean power system based on the same technology that has been used for years by big industry and utility companies. The EcoPower4™ provides your home with:

- power conditioning and line noise filtration
- an easy installation that creates immediate benefits
- an amazingly maintenance-free solution
- an environmentally friendly product that helps protect the earth

WHOLE HOUSE ENERGY MANAGEMENT

HELP ELIMINATE 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. In fact, the average home in America today operates at a power factor of .77. That means a large portion of the electricity being delivered to the home is being wasted by the use of motorized appliances.

THE ECOPOWER4™ SOLUTION - POWER FACTOR OPTIMIZATION:

The EcoPower4™ unit can improve power factor up to .97 or .98, therefore increasing the effective use of your electricity.

PROTECT APPLIANCES AND ELECTRONICS FROM THE DAMAGE CAUSED BY VOLTAGE SPIKES

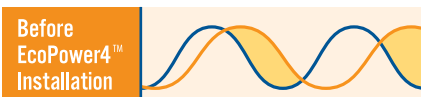
THE PROBLEM:

Typical residential and light commercial power sources allow literally hundreds of spikes and surges per day to reach valuable 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, etc.

THE ECOPOWER4™ SOLUTION - DUAL-MODE SURGE SUPPRESSION:

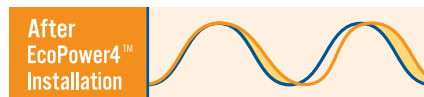
The EcoPower4™ operates in a dual-mode for surge suppression, alternating between two different types of protection. EcoPower4™ uses MOVs (Metal Oxide Varistors) to act as a sort of "pressure relief valve," diverting the surge to the neutral/ground lines. Should a massive surge (like a direct lightning strike) attempt to pass through, EcoPower4™ is designed to cut off the flow of electricity and block the surge, keeping damage to a minimum and prolonging the operating life of your appliances and electronic devices.

POWER FACTOR OPTIMIZATION BEFORE & AFTER ECOPOWER4™



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

EXPLAINED

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

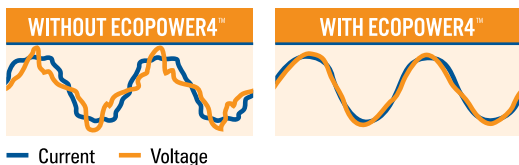
THE PROBLEM:

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 fluorescent 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 ECOPOWER4™ SOLUTION - LINE NOISE FILTRATION:

Designed to filter line noise and high frequency current (trash) from the electrical environment, electrical noise 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.). By reducing the electrical noise and trash current in your home, the EcoPower4™ helps protect the switching power supplies, helping prevent premature failure and prolonging the life of your appliances and electronic devices.

HARMFUL ELECTRICAL NOISE WITH & WITHOUT ECOPOWER4™



Will the EcoPower4™ affect any of my appliances and their normal use?

No. If anything, your motors may run cooler, which is good because heat is the enemy of a motor.

Is the EcoPower4™ easy to install?

Yes, but the EcoPower4™ must be installed by a professional 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 EcoPower4™ last?

It has a predicted lifespan of over 20 years and a 10 year limited warranty.

Could I see a savings on my electric bill?

YES - in addition to electrical surge and spike protection, as well as line noise filtration, it is definitely possible to save energy and/or money by using an EcoPower4™ in your home. Since these savings are dependent on many different, but specific, factors, results will vary between installations.

Some of the factors that can determine energy or money savings are:

- Age and conditions of the inductive loads, such as a heat pump or refrigerator, in your home.
- Distance from the installation of your EcoPower4™ to the different inductive loads.
- Inductive load usage.
- The number of Energy Star rated versus non-rated inductive loads.
- The type of electric meter you currently have, either analog or Smart Meter.
- Your electric utility system’s billing and policies.
- The percentage of billed kWh generated by your inductive loads.

Overall, potential energy savings is just one part of the EcoPower4™ whole home power conditioning system.

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.



On average, there are 20 million lightning strikes in the U.S. each year, with nearly \$1 billion in insured losses.



When properly installed by a professional electrician, your EcoPower4™ limited warranty will cover damaged electronics or appliances, up to \$25,000, in the event a damaging electrical spike or surge should occur. Certain terms and conditions apply. See warranty for details.



Is the EcoPower4™ right for your home?

The EcoPower4™ will work in any home with a breaker box and with any single-phase electric application for your home. Also, if you say "yes," to only two or more of the following, then you need the efficiency and protection of EcoPower4™!

*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 a window 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?

EcoPower4™ SPECIFICATIONS

| | |
|---|--|
| UNIT MODEL | ECP240R |
| POWER LINE VOLTAGE (VAC) | 120/240 |
| PHASE CONFIGURATION | single |
| FREQUENCY (Hz) | 50-60 |
| POWER DISSIPATION (J) (2ms current wave) | 1050 Joules |
| PEAK PULSE CURRENT (A) (8/20 microsecond current wave) | 40,000 |
| MAXIMUM CLAMPING (V) (@ 200Am 8/20 microsecond current wave) | 140 / 280 |
| TOTAL CAPACITANCE (uF) | 30 |
| OPERATING TEMPERATURE (°C) | -40 to +70 |
| LINE WIRES (AWG) | 12 |
| CIRCUIT BREAKER REQUIRED (A) | 20 |
| DIMENSIONS (WxHxD) | ECP240R - 4.866"x9.750"x2.875" Nema3 for Outdoor Installation - 4.4"x12.5"x5" |
| WEIGHT (lbs.) | 6 |

