



PowerShield Power Conditioning System



**PROTECT YOUR VALUABLES,
SAVE MONEY & CONSERVE ENERGY**



Smart technologies have not only optimized the function and proficiency of home electronics and household appliances, they have also made the risk of losing them much more costly. Most homeowners forget to consider how many thousands of dollars they have invested in digital devices, electronics and major appliances like their refrigerators, dishwashers and washing machines. It is time for a simple, easy-to-install, clean power solution that will help protect all of your home's electronics while also conserving energy.

The PowerShield Power Conditioning System offers a single-installation, cost-effective means of helping to protect the entire home from electrical spikes and surges while also monitoring and controlling the rate of incoming electricity in order to optimize the flow of power use and help diminish static-causing harmonics and line noise.

Power spikes and surges can occur many times throughout the day, potentially causing damage to valuable electronics throughout the home. Spikes may originate from a number of sources, including within home when major appliances turn-on, static electricity, power fluctuations and worst of all, lightning. Many homeowners believe that adequate surge protection begins and ends with plugging a few selected devices into a surge protected power strip. Unfortunately, that's seldom the case. Many other valuable devices such as high-end entertainment centers, HVAC pumps/temp controllers, general electronic devices, large appliances, security systems, and even solar systems are left vulnerable to irreparable or costly damage.

PowerShield creates an additional layer of protection by funneling spikes and surges to a neutral ground line thus minimizing potential damage to valuable home electronics and equipment.

FAST FACTS:

- Protects your valuable appliances, computers, TVs, digital devices, etc. against electrical surges and spikes
- Improves power efficiency while conditioning incoming power
- Reduces the electrical line noise and harmonics that may cause static in light fixtures which can damage many types of other electronic based equipment



As reported by the (I.I.I.) Insurance Information Institute at www.iii.org, while deadly storms have already caused destruction in several states these past years, intense lightning storms have taken their toll throughout the United States. The I.I.I. put the average lightning claim at \$5,112 in 2011 and this number is expected to continue rising each year.

In addition to minimizing the effects of power surges and power spikes which can cause tremendous damage to your home's electronics, the PowerShield Conditioning System is engineered to improve the power factor of your

home, up to .98, allowing all your electronics to always operate efficiently. Anything with copper windings that creates an electromagnetic field, which most all electric motors have, will benefit from the power-factor correction provided by the PowerShield.

- Air Conditioner
- Pool Pumps
- Washer/Dryer
- Refrigerators
- Ceiling Fans
- Power Tools
- Elevators
- Compactors
- Heat Pumps
- Freezers
- Fluorescent Lighting Ballasts

This will also improve your appliances, motors and electronics longevity as well as save energy!

- *≈80% of power surges come from within your home which are generated every time equipment cycles on and off.*
- *The Department of Energy (energy.gov) has reported "OVER 16 BILLION dollars of electricity is unusable energy, but billable in the U.S."*
- *Up to 50% of your power bill comes from cooling/heating costs and ≈15% of the energy you pay for goes unused.*



The average price-tag on a lightning claims in the USA was \$5,112 in 2011. This cost will continue to rise as electronics are more widely integrated into the home.

PowerShield Power Conditioner Specifications

Part Number	PJPS201
UPS EAN Code	638142929462 0638142929462
Service Type	200amp - Single Phase (Single Phase Only)
Power Line Voltage	120/240 VAC
Frequency	50 - 60 Hz
Maximum Energy	3000 Joules (SOV Surge)
Power Dissipation	2000 Joules (PowerFactor)
Max. Clamping (V)	140/280 (@200Am 8/20 μs current wave)
Surge Design Type	Silicon Oxide Varistor (SOV)
Maximum surges	Unlimited
Surge RESP Time	5 nanoseconds (1 Milli-amp test)
Surge RESP Time	10 nanoseconds (10'000 amps)
Surge RESP Time	25 nanoseconds (50'000 amps)
Operating Temp	-40 to +70 degrees C
Line Wires	12 AWG
Circuit Breaker Required	20 Amp Breaker
Dimensions Weight	6.25" x 6.25 x 4.25" 7 lbs
Warranty	15 Year Warranty

- Nema 3R Rated Metal Enclosure Box Rainproof (Indoor/Outdoor)
- UL & CuL listed for USA & Canada

Available Configurations:

- PJPS051 (50Amp-Single Phase)
- PJPS101 (100Amp-Single Phase)
- PJPS203 (200Amp-Three Phase)
- PJPS403 (400Amp -Three Phase)



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