



POWER PERFECT BOX Standard

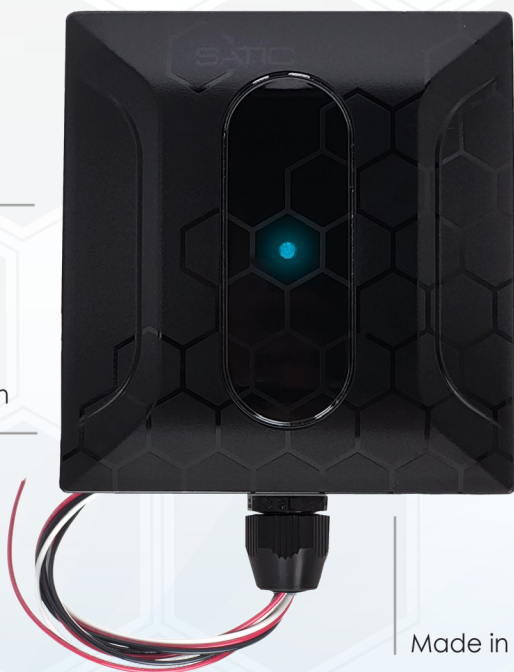
EMF Filtration

EMP Shielding

Privacy Blocker

Surge Protection

THD & EMI Filtration



Made in the USA

Produce a Healthier and More Efficient EMF Free Electric System

Satic, Inc.
1500 Clark Fork Lane, Missoula MT 59808
406-493-1861

www.saticshield.com

Safeguard with EMF and EMP Shielding

The Power Perfect Wire-In Has Proven Health Benefits
and Works to Protect your Home and Business.



What does it do?

Power Perfect harmonizes all aspects of current, **virtually eliminating** dirty electricity and harmful EMF radiation.



Has it been tested & validated?

Satic technology has been **rigorously tested and 3rd party validated** by the countries leading labs, building biologists, medical researchers and academics.



How easily is it installed?

Power Perfect installs **quickly and easily** at the panel, indoors or out, usually requiring neither permit nor inspection.



What are customers saying?

The industry's number #1 EMF filter has over 100,000 units currently serving satisfied customers with **raving 5-Star reviews**.

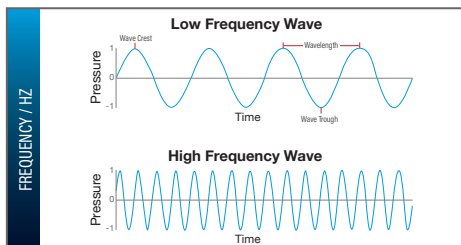
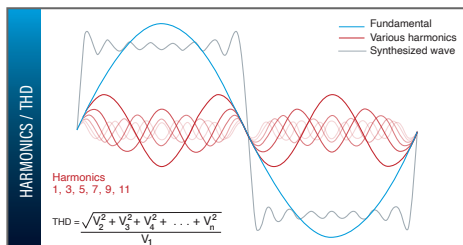
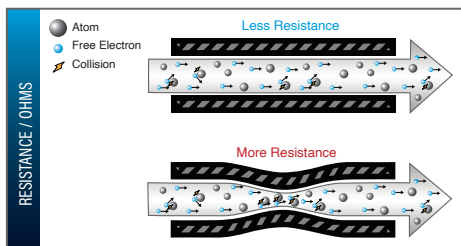
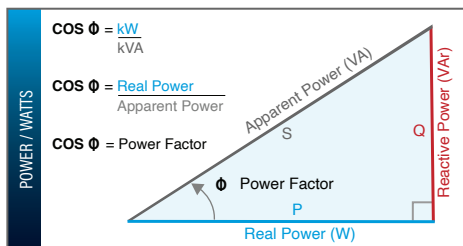
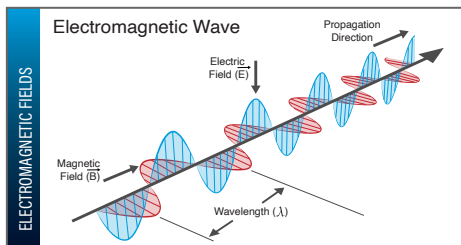
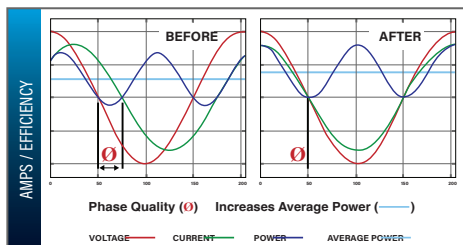
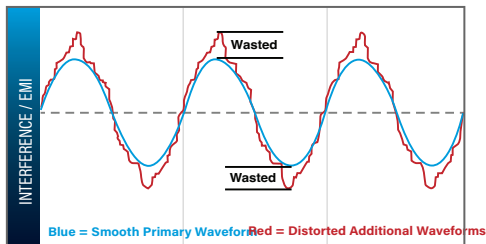
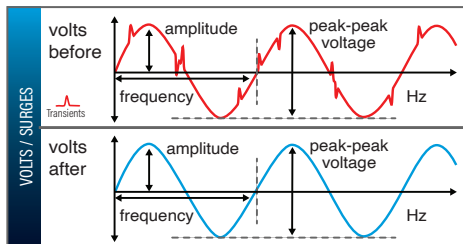
Powering Tomorrow's Change . . . Today

www.saticshield.com



Safeguard with EMF and EMP Shielding

Harmonizes all Aspects of Alternating Current



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POWER PERFECT BOX

SINGLE SPLIT-PHASE ELECTRICITY CONDITIONER



ES1PN Series Accreditations



Description /Code

Made in Montana • Made in USA • UL / CSA - E337361 - Open Energy Management Equipment 3ZJ9 • FCC - Approved (UL Tested for Compliance) • CE - Low Voltage Directive 2006/95/EC • CE - Electromagnetic Compatibility (EMC) 2004/108/EC • RoHS - Lead Free - Restriction of Hazardous Substances

Power Perfect Box {ES1PN} Highlights

- 120/208, 120/240 Volt Single Split-Phase Electricity Conditioner
- Low Power Losses, < 0.5 Watts per 1000 VAR
- Operating Temperature Range of -55oC to +90oC
- General Enclosure: NEMA 4X Indoor/Outdoor
- Electrical Harmonics Elimination (THD Reduction)
- Three-Way Electrical Protection
- Self-healing metalized Harmonic Rectifiers ("Smarter" Capacitors)
- Robust Tri-circuit Integrated Surge Protection
- EMI/RFI Noise Reduction 0-50 dB
- Wire Rating: 600 Volts, THHN/ MTW/ THWN-2
- Box Size 7.75" x 7.25" x 4"
- EMF/EMR Reduction
- Voltage Moderation
- Power Factor Compensation
- Surge Suppression

Power Perfect Box {ES1PN} Highlights

Max AC Voltage (Charge Potential)	300 Volts
Single Split-Phase Voltages Available	120 / 240, 120 / 208 Volts (300 Volt line-to-line MAX)
Input Power Frequency	50/60 Hz
Wire Rating	600 Volts, MTW/ THHN/ THWN-2
Current Requirements @ 120/240 Volts	L1 2.45 Amps
(Terminated to a Double Pole 15A Breaker)	L2 2.45 Amps
	N .095 Amps
Operating Temperature	-55oC to +90oC
Operating Humidity	5% to 95%, Noncondensing
Operating Altitude	Up to 16,000 ft (5000m)
Seismic Withstand Capability (Meet or Exceed Specifications)	IBC 2006, CBC 2007, UBC Zone 4

Harmonic Rectifier {ES1PN} Circuit Qualities

Total Unit Reactive Power @ 300 V	(L1-L2 + L1-N + L2-N)	60 μ F
Per Circuit Reactive Power @ 300 V	(L1-L2, L1-N, L1-N)	20 μ F
Reactive Bank Composition		18 PFC Self-healing Harmonic Rectifier Modules

Harmonic Dissipations - PFC Module Specs.

Tangent of Loss Angle: $C > 1 \mu F$ at 1 kHz	$\leq 30 * 10^{-4}$
Rated Voltage Pulse Slope (dV/dt)	150 V / μs
RC Between Leads	>5000 s
Withstanding (DC) Voltage (Cut-off Current 10 mA)	1850 V
EMI/RMI Filtering Attenuation	Up to 50 dB from 10 kHz to 100 MHz
Protection Modes	L1-L2, L1-N, L2-N

Surge Suppression

Voltage	(Continuous)	150V L1-N, L2-N 250V L1-L2	Volts _{RMS}
	(Max Clamping)	424	Volts _{DC}
		650	Volts _{RMS}
Current	(Peak Surge)	6500	Amps
	(Rating)	6500	Amps
Transient Dissipation Potential	(Surge Energy)	1300	Joules/us
Protection Modes	(Tri-Circuit Integration)	L1-L2, L1-N, L2-N	

