SaticShield

Pure Power Plug-In

Indicator Light

Convenience Outlet

EFM Filtration

Made in USA

Robust Design

Residential and Commercial

Produce a healthier and more efficient electrical system

Satic, Inc.
1500 Clark Fork Lane, Missoula MT 59808
406-493-1861 • 1-866-99-SATIC

www.saticshield.com

SATICSHIELD
Pure Power Plug-in

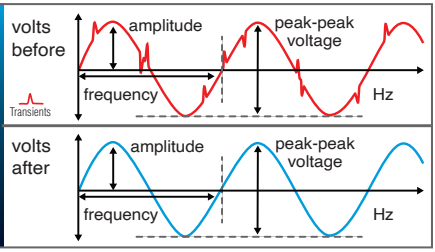
Clean Your Power and Save Money!

Satic has a complete line of plug-in and wire-in filters designed to clean electrical service, increase the life span of everything within its sphere (biological and electrical) of influence, save money and the planet.

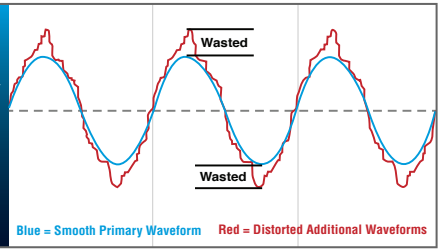
Safeguard your electronics • extend the life of equipment • eliminate voltage distortions

The Pure Power Plug-in will do all this and lower your electric bill!

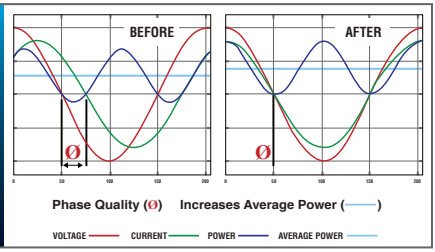
VOLTS / SURGES



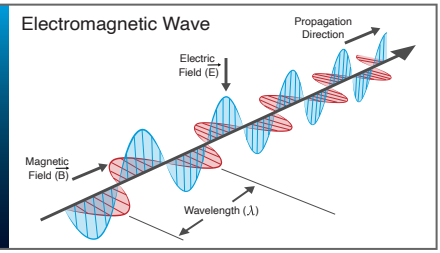
INTERFERENCE / EMI



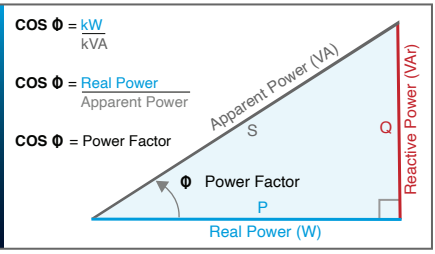
AMPS / EFFICIENCY



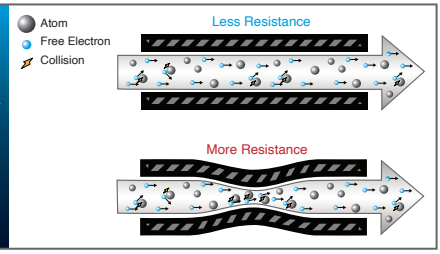
ELECTROMAGNETIC FIELDS



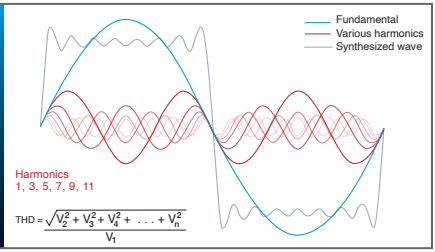
POWER / WATTS



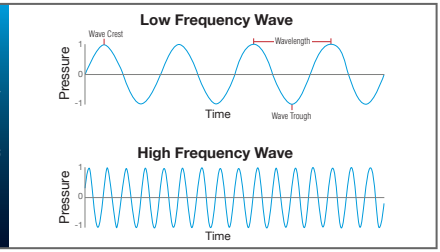
RESISTANCE / OHMS



HARMONICS / THD



FREQUENCY / HZ



Made in USA

100% SATISFACTION GUARANTEED

Powering Tomorrow's Change . . . Today

www.saticshield.com

PURE POWER PLUG-IN

ES120V PLUG-IN ELECTRICITY CONDITIONER

ES120V Plug-in Series Accreditations

Description /Code

Made in Montana • Made in USA • UL - E337361 - Closed 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 Volt Single Phase Electricity Conditioner
- Unit Size 5.25" x 3.75" x 2"
- Low Power Losses, < 0.5 Watts per 1000 VAr
- Operating Temperature Range of -55°C to +90°C
- General Enclosure: Plug-in Unit
- Circuit Zone Electrical Protection
- Self-healing metalized Harmonic Rectifiers
- NEMA 5-15 plug (two flat parallel blades w/ground pin)
- EMI/RFI Noise Reduction 0-50 dB
- Power Factor Compensation
- Voltage Moderation
- Robust Integrated Surge Suppression
- Electrical Harmonics Elimination (THD Reduction)
- EMF/EMR Elimination

Power Perfect Box {ES1PN} Characteristics

Max AC Voltage (Charge Potential)		300 Volts
Single Phase Voltages Available		120 Volts, USA (300 Volt line-to-neutral MAX)
Input Power Frequency		50/60 Hz
Current Requirements @ 120 Volts		0.85 Amps
Operating Temperature		-55°C to +90°C
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-N)	20 µF
Per Circuit Reactive Power @ 300 V	(L1-N)	20 µF
Reactive Bank Composition		6 PFC Modules

Harmonic Dissipations - PFC Module Specs.

Tangent of Loss Angle: C > 1 µF at 1 kHz		<= 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-N

Surge Suppression

Voltage	(Continuous)	150	$Volts_{RMS}$
		424	$Volts_{DC}$
	(Max Clamping)	650	$Volts_{RMS}$
Current	(Peak Surge)	6500	Amps
	(Rating)	6500	Amps
Transient Dissipation Potential Each Circuit	(Surge Energy)	1300	Joules/µs
Protection Modes	(Single Circuit)	L1-N	

*NEMA 5-15 plug two flat parallel blades w/ ground pin