

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

www.saticshield.com

SATICSHIELDClean Your PowerPower Perfect Boxand Save Money!

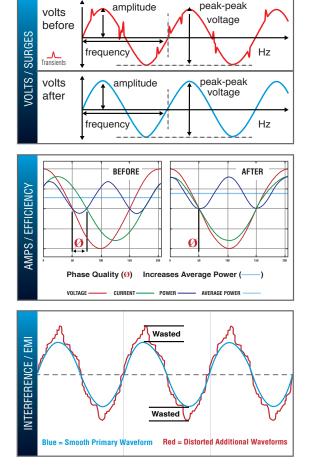
Satic's wire-in product line installs easily at the breaker panel or at point of use to filter dirty electricity providing line conditioning, surge protection, phase correction and harmonics reduction for total system protection.

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

The Power Perfect Box will do all this and lower your electric bill!

Robust Surge Protection for your appliance





EMF Protection for your health





Powering Tomorrow's Change ... Today www.saticshield.com

Power Perfec	T BOX - SUF	PER DUTY	POWER	
SINGLE SPLIT-PHASE ELECTRICITY CONDITIONER				
ES1PN + ES1PP Series Accreditations	Description /Code			
Rolls 🐼	Made in Montana • Made in USA • UL - E337361 - Open Energy Aanagement Equipment 3ZJ9 • FCC - Approved (UL Tested for Compliance) •			
Made in USA				
		 Low Voltage Directive 2006/95/EC • CE - Electromagnetic Compatibility IC) 2004/108/EC • RoHS - Lead Free - Restriction of Hazardous Substances 		
Power Perfect Box {ES1PN + ES1PP} Highlig				
 120/208, 120/240 Volt Single Split-Phase Electronic 	icity Conditioner			
 Low Power Losses, < 0.5 Watts per 1000 VAr 		 EMI/RFI Noise Reduction 0-50 dB 		
 Operating Temperature Range of -55°C to +90 	°C	 Wire Rating: 600 Volts, THHN/ MTW/ THWN-2 		
 General Enclosure: NEMA 4X Indoor/Outdoor 		• Box Size 14" x 7.25" x 4"		
• Electrical Harmonics Elimination (THD Reduction	n)	 EMF/EMR Reduction 		
 Three-Way Electrical Protection 		 Voltage Moderation 		
 Self-healing metalized Harmonic Rectifiers 		 Power Factor Compensation 		
 Robust Tri-circuit Integrated Surge Protection 		Surge Suppression		
Power Perfect Box {ES1PN + ES1PP} Charac	teristics			
Max AC Voltage (Charge Potential)		300 Volts		
Single Split-Phase Voltages Available		120/208, 120/240 Volts (300 Volt L1-to-L2 MAX)		
Input Power Frequency		50/60 Hz		
Wire Rating		600 Volts, MTW/ THHN/ TH	IWN-2	
Current Requirements @ 120/208 Volts	L1	6.95 Amps		
(Terminated to a Double Pole 15A Breaker)	L2	6.95 Amps		
Operating Temperature	Ν	.095 Amps -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 + ES1PP} Circuit	Qualities			
Total Unit Reactive Power @ 300 V	(L1-L2 + L1-N + L2-N) + 3*(L1-L2)	120 μF		
Per Circuit Reactive Power @ 300 V	(L1-L2, L1-N, L2-N) + 3*(L1-L2)	20 μF		
Reactive Bank Composition	(,,, * 0 ()	36 PFC Modules		
Harmonic Dissipations - PFC Module Specs				
Tangent of Loss Angle: $C > 1 \mu F$ 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-L2 + L1-N + L2-N) + 3*(L	_1-L2)	
Surge Suppression				
Voltage	(Continuous)	150 L1-N, L2-N 250 L1-L2	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)			
Protection Modes	(Dual Tri-Circuit Integration)	(L1-L2, L1-N, L2-N) + 3*(L1-L2)		

(Dual Tri-Circuit Integration)



Protection Modes



(L1-L2, L1-N, L2-N) + 3*(L1-L2)