



## POWER PERFECT BOX Super Duty

EMF Filtration

EMP Shielding

Light Indicator

Privacy Blocker

Surge Protection

THD & EMI Filtration



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](http://www.saticshield.com)

## Safeguard with EMF and EMP Shielding

Power Perfect Has Proven Health Benefits and  
Works to Protect Home and Business.



### What does it do?

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



### Has it been tested & validated?

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



### How easily is it installed?

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



### What are customers saying?

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

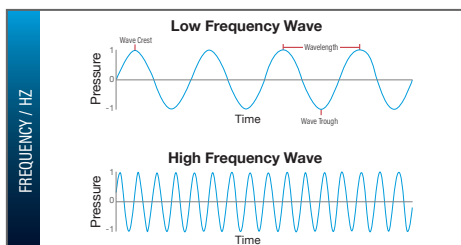
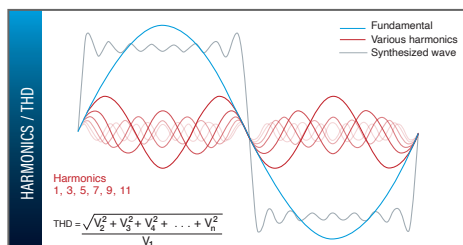
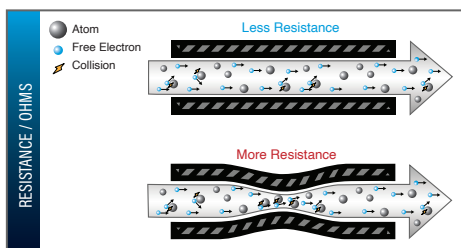
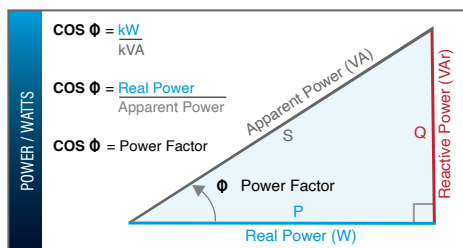
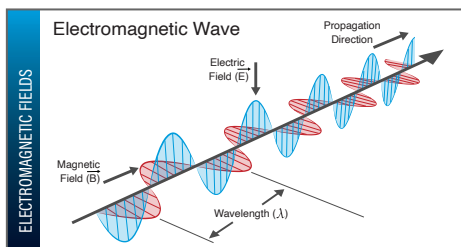
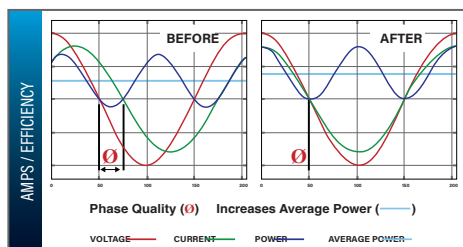
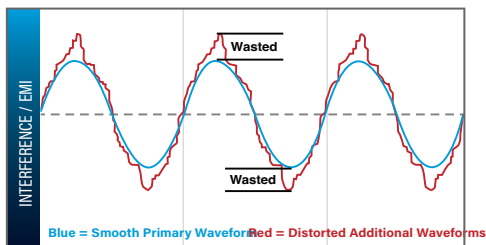
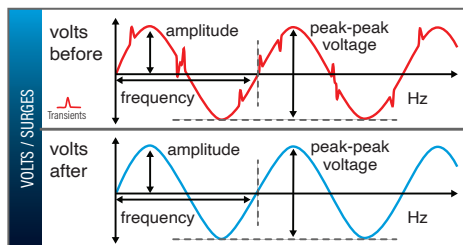
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## Safeguard with EMF and EMP Shielding

Harmonizes all Aspects of Alternating Current



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# POWER PERFECT BOX – SUPER DUTY

## GEN III SINGLE-PHASE ELECTRICITY CONDITIONER



### Manufacturing Accreditations



### Accreditation Description /Code

Made in USA • UL - E337361 - 3ZJ9 Energy Management Equipment  
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

### Gen III SATIC PowerPerfect Circuit Module Models ES1PN + ES1PP Product Features and Benefits

#### Feature

- interference (EMI/RF) noise reduction 0-50 dB
- voltage modulation
- three-way electrical protection
- self-healing metalized harmonic rectifiers
- robust tri-circuit integrated surge protection
- corrects current phase quality

#### Benefits

- low electromagnet field radiation (EMF/EMR)
- low total harmonic distortion (THD)
- all three electrical pathway production
- long life
- built-in surge and EMP protection
- power factor correction



### Gen III SATIC PowerPerfect Specifications

circuit configuration 1  
max AC voltage component rating  
power-loss rating  
input frequency  
wire rating  
current requirements @ 120/240 volts  
enclosure  
operating temperature  
operating humidity  
operating altitude up to 16,000 ft  
seismic withstand capability

20/240 V split phase power conditioner  
300 V rating  
< 0.5 W per 1000 VAR  
50/60 Hz  
600 V THHN, 15 AWG terminated to 15 A DP  
3.52 A (L1 & L2), 0.34 A (N)  
14" x 7.25" x 4" NEMA 4X indoor/outdoor  
-55°C to +90°C  
5% to 95%, noncondensing  
(5000m)  
IBC 2021, CBC 2021, UBC Zone 4

### Harmonic Rectifier Circuit Details

total unit reactive power @ 300 V (L1-L2 + L1-N + L2-N) + 3\* (L1-L2)  
per-circuit reactive power @ 300 V (L1-L2, L1-N, L2-N) + 3\* (L1-L2)  
reactive bank composition

120  $\mu$ F  $\rightarrow$  1.5 kVar  
20  $\mu$ F L-N  $\rightarrow$  0.3 kVar, 60  $\mu$ F L-L  $\rightarrow$  1.2 kVar  
36 PFC modules ES1PN + 36 PFC modules ES1PPP

### Harmonic Dissipations - PFC Module Specifications

tangent of loss angle:  $C > 1 \mu$ F at 1 kHz  
rated voltage pulse slope (dV/dt)  
RC between leads  
withstanding (DC) voltage (cut-off current 10 mA)  
EMI/RMI filtering attenuation  
protection modes

$\leq 30 * 10^{-4}$   
150 V/  $\mu$ s  
>5000 s  
1850 V  
Up to 50 dB from 10 kHz to 100 MHz  
(L1-L2 + L1-N + L2-N) + 3\*(L1-L2)

### Surge & EMP Suppression

A/C voltage max (Continuous)  
D/C voltage max  
A/C voltage max (Max Clamping)  
Current max peak (Peak Surge)  
protection modes (dual tri-circuit integration)  
transient dissipation potential each circuit (surge energy)

150v (L1-N, L2-N) 250v (L1-L2) VRMS  
424v VDC  
650v VRMS  
6500A A  
L1-L2, L1-N, L2-N@150v + 3\*(L1-L2)  
1,300 per pathway \* 6 = 7,800 J /  $\mu$ s