

## Computer-Grade Filtering Ensures Maximum System Uptime



**COMPUTER GUARDIAN**

ELECTRONIC POWER CONDITIONER

### *Is Trouble Shooting Computer Problems Affecting Business?*

As the processing capability of computers continues to become faster and more powerful, businesses struggle with the complexity of keeping their IT systems running efficiently. Failing to use necessary power protection equipment on computers and connected peripherals such as printers, scanners, and multifunctional devices is an often overlooked yet costly mistake. Downtime for a networked computer system results in reduced employee productivity and cost employer's substantial amounts of money.

Many businesses fail to realize that older buildings and power grids were not designed to support the today's microprocessor based equipment. Silently in the background on electrical circuits can be power quality problems that affect the performance of today's electronic circuits and microprocessor's. These intermittent problems appear or manifest themselves as software or hardware problems when in reality they are power quality issues. Protecting microprocessor based equipment is a necessary step to safeguard the investment in equipment purchased, maintain or improve productivity, and ensure system reliability that will lead to a lower total cost of ownership and greater return on investment.

#### Benefits of Power Protection:

- ▶ It reduces downtime, error codes, frozen screens, "no problem found" service calls
- ▶ Protects computers systems against the most severe spikes and surges
- ▶ Gives the maximum reduction in service calls
- ▶ Protects telephone/modem/network
- ▶ Lifetime product warranty

If the Smart Power Systems equipment fails and this failure allows a surge to pass through and damage the connected equipment, Smart Power Systems will pay for the repair or replacement of the connected equipment up to \$25,000.



## About the Computer Guardian

The Computer Guardian is a complete power filter solution that offer comprehensive power protection for computers, telephone, modem, and network. Our computer grade filters are power conditioners that protect computers and other related microprocessor-based products. The Computer Guardian is ideal for protecting computers, telephones, and network equipment in home or office environments.

### Transformer Based Filters (TBF™)

Smart Power System' patented TBF™ technology is the application of the differential transformer to power quality products. The differential transformer provides noise rejection equal to an isolation transformer with a much smaller footprint. This engineering accomplishment enabled scaling and the noise rejection desired for a wide range of amperage and voltage applications.

Voltage spikes are one of the main causes of system failures and cause thousands of service calls annually on all types of electronic systems. Service calls that are avoidable. Smart Power Systems' TBF™ technology delivers unequaled performance for protection against minor and severe spikes and surges that comprise over 80% of power problems. Our Computer Guardian products are rated 15 amps and protect systems requiring 120 Volts.

#### Benefits

Smart Power Systems' TBF™ technology eliminates power issues that cause Disruption, Degradation and Destruction to electronic components. Benefits include enhanced operation, reduced downtime and extended operating life.

#### Performance Factors

- ▶ Common Mode Noise Filtering
- ▶ Normal Mode Noise Filtering
- ▶ Filters the ground noises to less than 0.5 Volts
- ▶ Faulty Wiring Detection
- ▶ Surge Protection
- ▶ Prolonged Over Voltage Protection
- ▶ Correct Harmonic Distortions (Model Dependent)

#### Specifications

	COMPUTER GUARDIAN
INPUT/OUTPUT	120V
OUTPUT CURRENT	15 Amps
OUTPUT RECEPTACLE	Two 5-15R
MODEM/NETWORK PROTECTION	RJ11 & RJ45
SIZE (H x W x D) (In.)	6.25 x 4.5 x 1.75
NET WEIGHT (Lbs. / Kg.)	2.05 / 1.14
TRANSIENT LET THROUGH VOLTAGE (Common Mode)	<0.5 Volt
TRANSIENT LET THROUGH VOLTAGE (Normal Mode)	<10 Volts

05/10 PN17000730

**Extra Industrial Withstand Test** - The unit is tested with ANSI / IEEE C62.41 Cat. B2-6000V / 3000A (Impulse 8 by 20 micro second)



Listed UL 1449 / UL 991  
TVSS Rating All modes less than 330V

**1-800-882-8285**



### 7 LEVELS OF POWER PROTECTION

- 1 High Voltage Surge & Lightning Protection**  
(US Patent # 6229682)  
Stops dangerous surges from damaging computer systems, fax machines and printers.
- 2 Low Voltage Spike & Noise Protection in Common Mode** (US Patent # 6229682)  
Filters down to 0.5 Volts and stops disruptions of electronics
- 3 "POVP™" Prolonged Over Voltage Protection**  
(US Patent # 6560086)  
Protects connected equipment against destructive over voltage.
- 4 Identifies Bad Wiring**  
(US Patent # 5721661)  
Exclusive Smart Technology protects connected equipment against reverse polarity or no ground, making the Computer Guardian Fail-Safe.
- 5 Smart Ground for Ground Loop Protection**  
(Patent Pending)  
Ground loops can cause data errors, component failures and safety hazards.
- 6 Network RJ45 Protection**
- 7 Phone / Modem RJ11 Protection**