

Electronic Power Conditioner Provides Power Protection for Point of Sale Systems



POS GUARDIAN

SMART
GROUND

ELECTRONIC POWER CONDITIONER

Is Not Having Power Protection Costing Your Business?

With the migration of retail and restaurant businesses from electronic cash registers to computer based point of sale systems, businesses are turning to automation to make gains in productivity. However, many of these businesses may not realize that older buildings and power grids were not designed to support the microprocessor systems commonly in use today. Power protection equipment is essential to preventing costly damage to electronic components from electrical surges such as lightning, reducing unnecessary service calls, and increasing uptime by eliminating dirty power which is present when a computer based point of sale system is installed at facilities where equipment such as freezers, refrigerators, mixers, blenders, microwaves and other machinery run simultaneously.

Often these intermittent problems appear or manifest themselves as software or hardware problems when in reality they are power quality issues. Failing to use necessary power protection equipment is an often overlooked yet costly mistake. Protecting your point of sale system and peripherals is a necessary step to protect your investment in equipment purchased, maintain or improve productivity, and ensure system reliability leads to a lower total cost of ownership and a greater return on investment.

Benefits of Power Protection:

- ▶ It reduces downtime, error codes, frozen screens, "no problem found" service calls
- ▶ Protects POS systems against the most severe spikes and surges
- ▶ Equipped with "Smart Ground" technology protection for network systems and ground loop current
- ▶ 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 POS Guardian

The POS Guardian is a complete power filter solution that offers comprehensive power protection for point of sale (POS) systems and peripherals. Our computer grade filters are power conditioners that protect POS systems and peripherals during any potential power problems and eliminate spikes, surges, and line noise. The POS Guardian is the ideal solution to provide power protection for virtually any point of sale environment.

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 unequalled performance for protection against minor and severe spikes and surges that comprise over 80% of power problems. Our POS 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

	POS 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

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7 LEVELS OF POWER PROTECTION

- 1** High Voltage Surge & Lightning Protection
Stops dangerous surges from damaging POS terminals and other microprocessor-based electronics. (US Patent # 6229682)
- 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 connected equipment 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 Line RJ11 Protection

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

