



COPIER GUARDIAN

ELECTRONIC POWER CONDITIONER

Are Copier Problems Reducing Productivity?

The use of office equipment such as copiers, fax machines, phone systems, and other office equipment has become mainstream as companies turn to technology to increase the operational efficiency of their business. The use of power protection solutions with microprocessor based office equipment eliminates power issues that cause disruption, degradation and destruction to electronic components. Potential damage to equipment due to spikes and surges is mitigated and productivity is enhanced through reduced paper jams, error codes, and unnecessary service calls. Power protection equipment also eliminates dirty power which is present when office automation equipment is used in facilities where equipment like elevators, air conditioners, computers, and other equipment is used simultaneously.

Failing to use necessary power protection equipment is an often overlooked yet costly mistake. 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, paper jams, "no problem found" service calls
- ▶ Protects copiers 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 Copier Guardian

Copier Guardian is a complete power filter solution that offers comprehensive power protection for copiers, fax machines, phone systems, and other office equipment. Our computer grade filters are power conditioners that protect copiers during any potential power problems and eliminate spikes, surges and line noise. The Copier Guardian is the ideal solution to provide power protection for 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' transformer based filters deliver unequaled performance. TBF™ technology protects against minor and severe spikes and surges that comprise over 80% of power problems. Our Copier Guardian products range from 15 to 20 amps and protect systems requiring 120 to 240 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

	COPIER GUARDIAN
INPUT/OUTPUT	120V or 208
OUTPUT CURRENT	15 or 20 Amps
OUTPUT RECEPTACLE	5-15R, 5-20R, 6-15R, 6-20R
TEL/MODEM/NETWORK PROTECTION	RJ11+RJ45
SIZE (H x W x D) (In.)	6.15 x 4.5 x 1.75
NET WEIGHT (Lbs. / Kg.)	2.05 / 0.9
TRANSIENT LET THROUGH VOLTAGE (Common Mode)	<0.5 Volts
TRANSIENT LET THROUGH VOLTAGE (Normal Mode)	<10 Volts

05/10 P.N. 17003200

6 LEVELS OF POWER PROTECTION

- 1 High Voltage Surge & Lightning Protection**
Stops dangerous surges from damaging digital copiers, 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 Copier Guardian Fail-Safe.
- 5 Network RJ45 Protection**
(Cat5E or Cat6 available)
- 6 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).
- Different models are available for 120V, 208V, 15 Amp or 20 Amp.



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



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