



Computer-grade filtration
to protect against severe
power spikes and surges

Copier Guardian II

ELECTRONIC POWER CONDITIONER

Power Protection for Today's Digital Copiers and All Office Equipment

Voltage spikes are one of the main causes of system failures and cause thousands of service calls annually on all types of electronic systems. Most of those calls 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.

What it does:

- Protects equipment against the most severe spikes and surges
- It reduces downtime, error codes, paper jams, "no problem found" service calls

Features:

- High voltage surge & lightning protection
- Low voltage spike & noise protection in common mode
- Prolonged over voltage protection
- Ground loop protection
- Identifies improper wiring
- Network RJ45 protection
- Phone line RJ11 protection

Resellers Benefits:

- Eliminate "No problem found" service calls on warranted equipment
- Safeguard the investment in equipment purchased
- Maintain or improve productivity
- Ensure system reliability
- Lower total cost of ownership
- Greater return on investment

Applications:

- Networked MFPs
- High Volume Copiers
- Phone Systems
- Workstations

...Since we are proactive and include a power filter on every copier in the field, we have the peace of mind in knowing that we are taking the majority of power irregularities out of the equation. The cost of installing a Copier Guardian power filter is a fraction of the expense compared to an additional service call created by a power issue or board failure...

Mark Curry
Steward Organization



SmartPower
SYSTEMS
A POWER QUALITY COMPANY

Copier Guardian II

ELECTRONIC POWER CONDITIONER

Patented
Technology

Transformer Based Filters (TBF™)

Smart Power System's patented TBF™ technology is the first application of the differential transformer and electronic circuit to provide computer-grade filtration.

Patented TBF™ technology protects against minor and severe spikes and surges that comprise over 80% of power problems.

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)

Copier Guardian II...

- ▶ **REDUCES** Downtime
- ▶ **REDUCES** Error Codes
- ▶ **REDUCES** Paper Jams
- ▶ **REDUCES** "No Problem Found" Service Calls

Specifications

| | COPIER GUARDIAN TBF | |
|--|--------------------------------------|-------------------------|
| INPUT/OUTPUT | 120V | 208V-240V |
| OUTPUT CURRENT | 15 or 20 Amps | |
| OUTPUT RECEPTACLE | 5-15R or 5-20R | 6-15R or 6-20R |
| INPUT CORD AND PLUG | 5-15P or 5-20P - 6 Feet | 6-15P or 6-20P - 6 Feet |
| *SPIKE TRANSIENT LET THROUGH VOLTAGE (Common Mode) | <0.5 Volts | |
| *SPIKE TRANSIENT LET THROUGH VOLTAGE (Normal Mode) | <10 Volts | |
| TEL/MODEM/DSL PROTECTION | RJ11 | |
| NETWORK PROTECTION | RJ45 Cat5e (Optional Cat6) | |
| SIZE (H x W x D) (In.) | 6.15 x 4.5 x 1.75 | |
| NET WEIGHT (Lbs. / Kg.) | 2.05 / 0.9 | |
| SAFETY | UL 1449 3rd. Edition, UL 991, UL1283 | |

All specifications are subject to change without notice.

* Tested under IEEE C62.41 Cat.A & B Ring wave

• Different models are available for 120V, 208V, 15 Amp or 20 Amp.

| MODEL / PART NUMBER | DESCRIPTION |
|---------------------|---|
| TBF15C-1121TN | 120V/15A, two 5-15R outlets, RJ11+RJ45 |
| TBF15C-1131TN | 120V/15A, two 5-15R outlets and one 5-15R pigtail outlet, RJ11+RJ45 |
| TBF20C-1211TN | 120V/20A, one 5-20R pigtail outlet, RJ11+RJ45 |
| TBF20C-1221TN | 120V/20A, one 5-15R outlet, one 5-20R pigtail outlet, RJ11+RJ45 |
| TBF15C-2111TN | 208V - 240V/15A, one 6-15R pigtail outlet, RJ11+RJ45 |

Features

- ▶ High voltage surge & lightning protection
Stops dangerous surges from damaging digital copiers, fax machines and printers.

Smart Power Systems is the first and only one to offer the following patented features:

- ▶ Low voltage spike & noise protection in common code (US Patent # 6229682)
Filters down to 0.5 Volts and stops disruptions of electronics
- ▶ "POVP™" prolonged over voltage protection (US Patent # 6560086)
Protects connected equipment against destructive over voltage.
- ▶ Exclusive Smart Technology (US Patent # 5721661)
Protects copiers against reverse polarity wiring or no ground, making the Copier Guardian II Fail-Safe.
- ▶ Smart Ground Loop Protection (Patent Pending)
Ground loops can cause data errors, component failures and safety hazards.
- ▶ Cat 6 Network Protection (RJ45)(Optional)
Verified by Fluke DTX1800.
Category 6 is a new standard for faster and more reliable network infrastructure.



UL 1449 3rd. Edition Listed

| MODEL / PART NUMBER | DESCRIPTION |
|---------------------|--|
| TBF20C-2211TN | 208V - 240V/20A, one 6-20R pigtail outlet, RJ11+RJ45 |
| TBF15C-1121TNWM | 120V/15A, two 5-15R outlets, RJ11+RJ45, wall mount |
| TBF20C-1211TNWM | 120V/20A, one 5-20R pigtail outlet, RJ11+RJ45, wall mount |
| TBF15C-2111TNWM | 208V - 240V/15A, one 6-15R pigtail outlet, RJ11+RJ45, wall mount |
| TBF20C-2211TNWN | 208V - 240V/20A, one 6-20R pigtail outlet, RJ11+RJ45, wall mount |

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