

Patented
Technology



Guardian

ELECTRONIC POWER CONDITIONER

Computer-Grade Filtering Prevents
downtime due to power issues

The Guardian is a computer-grade filter and complete power filter solution for point of sale (POS) systems and peripherals.

The Guardian provides clean power by eliminating spikes, surges, and line noise, and is the ideal solution for protecting virtually any point of sale, digital signs, computers, telephones, and network equipment in any environments.

What it does

- Reduces downtime (blue screens, frozen screens, "no problem found" service calls)
- Prevents data loss from system crashes
- Protects your investment
- Increases customer satisfaction
- Protects Telephone/Modem/Network

Protection against...

- High voltage surges & lightning
- Low voltage transient noise
- Prolonged over voltage
- Ground loops

Benefits

- Increase uptime
- Save money on power related service calls
- Improve business productivity
- Systems operate as intended
- Protected equipment lasts longer
- GFCI Compatible - It won't disable GFCI safety feature

Applications



ALL IN ONE
POS TERMINAL



SELF SERVICE
CHECKOUT



COMPUTERS



SERVERS



KIOSKS



DIGITAL SIGNAGE



SCOREBOARDS



ATMS



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What is TBF™ Technology?

A Transformer-Based Power Filter, or TBF™ for short, is a revolutionary, patented technology that is embedded in every Emerge Power Solutions power protection device. Simply put, TBF™ is the most effective technology for regulating power so that issues like power spikes, surges and noise do not affect the ability of your equipment to operate properly.

Benefits

Emerge Power Solutions' 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 to less than 0.5 Volts
- ▶ Normal Mode Noise Filtering to less than 10 Volts
- ▶ Faulty Wiring Detection
- ▶ Surge Protection
- ▶ Prolonged Over Voltage Protection
- ▶ Correct Harmonic Distortions (Model Dependent)
- ▶ Compatible with GFCI circuit

Features

- ▶ High voltage surge & lightning protection
Stops dangerous surges from damaging POS terminals and other microprocessor-based electronics. (US Patent #6229682)

Emerge Power Solutions is the first and only one to offer the following patented features:

- ▶ Low voltage spike & noise protection in common mode (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.
- ▶ Identifies Bad Wiring (US Patent # 5721661)
Exclusive Smart Technology protects connected equipment against reverse polarity or no ground, making the Guardian Fail-Safe.
- ▶ Smart Ground for Ground Loop Protection (Patent Pending)
Ground loops can cause data errors, component failures and safety hazards.
- ▶ Network RJ45 Protection
- ▶ Phone Line RJ11 Protection

Specifications

	TBF15P-1121TN	TBF15P-1121TNWM**	TBF15P-1111TN	TBF15P-1111TN-IEC
INPUT/OUTPUT	120V			
OUTPUT CURRENT	15 Amps			
OUTPUT RECEPTACLE	(2) 5-15R		(1) 5-15R Pigtail	(1) IEC Pigtail
INPUT CORD AND PLUG	5-15P - 6 Feet			
TEL / FAX / MODEM / DSL / NETWORK	RJ11 + RJ45			
*SPIKE TRANSIENT LET THROUGH VOLTAGE (Common Mode)	<0.5 Volts			
*SPIKE TRANSIENT LET THROUGH VOLTAGE (Normal Mode)	<10 Volts			
SIZE (H x W x D) (In.)	6.25 X 4.5 X 1.75			
NET WEIGHT (Lbs. / Kg.)	2.05 / 1.14			
SAFETY	UL 1449 3rd. Edition, UL 991, UL1283			

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

- Different models are available for 120V, 208V, 15 Amp or 20 Amp.
- All specifications are subject to change without notice.

**Wallmount

Rev.11/25

800-882-8285

7409 Railhead Ln. • Houston, TX 77086
Tel: 713-464-8000 Fax: 713-984-0841
Email: sales@emergepowersolutions.com



www.emergepowersolutions.com

Specifications

MODEL	GUARDIAN
Current (Amps)	15 or 20
Voltage (Volts)	120 (208-240V available)
Cord	6 Ft. or wall-mount
Plug	5-15P or 5-20P or 6-20P for 208 models
Receptacles	Up to 3 (5-15R) or up to 2 (5-20R) or 1 receptacle 6-20R for 208 models
Modem/Network Protection	RJ11 and RJ45
Color	Black
Frequency	50/60Hz
Response Time	Instant
Efficiency	99%
Energy Rating	1120 Joules
Noise Attenuation Common Mode Noise Rejection (Freq: 150KHz to 6MHz)	More than 70dB
Normal Mode Noise Rejection (Freq: 150KHz to 6 Mhz)	More than 60dB
EMI/RFI (Freq: 30KHz to 30 MHz)	More than 70dB
Pass Through Voltage on Common Mode (N-G)	<0.5V
Pass Through Voltage on Normal Mode (L-N)	<10V
Ground Loop Protection	Smart Ground Technology
Output Crest Factor	4 Min
Distortion	<1%THD Added
Load Power Factor	.3 leading to .3 lagging
Overload Capability	1000% 1 Second
Size (HXWXD) (inches)	6.15 x 4.5 x 1.75
Net Weight (lbs)	2.05
Warranty	Lifetime
UL Listing	cUL, UL 1449, UL 991, UL 1283

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

WARRANTY

Limited Lifetime Warranty

Emerge Power Solutions warrants to the original purchaser that the power conditioners shall be free of defects in material and workmanship under normal use and service for the lifetime of the original, registered connected equipment, and Emmerge Power Solutions will repair or replace, at its sole option, any defective power conditioners free of charge. This warranty is not transferable. See our website for more details - www.emergepowersolutions.com

\$25,000 Connected Equipment Warranty

If the Emmerge Power Solutions equipment fails and this failure allows a surge to pass through and damage the connected equipment, Emmerge Power Solutions will pay for the repair or replacement of the connected equipment of the original purchaser. Please take the time to **register** each Emmerge Power Solutions' product along with the connected equipment devices connected to it within 10 days of date of purchase in order for you to take advantage of this product warranty and connected equipment protection policy. See our website for more details - www.emergepowersolutions.com

Guardian Models

PART NUMBER	DESCRIPTION
TBF15P-1120	120V/15A, two 5-15R outlets
TBF15P-1121TN	120V/15A, RJ11 + RJ45 (Phone/Network Protection), two 5-15R outlets
TBF15P-1111TN	120V/15A, RJ11 + RJ45 (Phone/Network Protection), one pigtail 5-15R outlet
TBF15P-1121TNWM	120V/15A, two 5-15R outlets, RJ11 + RJ45, wall mount
TBF20C-1211TNWM	120V/20A, one pigtail 5-20R outlet, RJ11 + RJ45, wall mount

All specifications are subject to change without notice.



1-800-882-8285

