

POWERVAR Maximize Your Communications Network Reliability

Power Protection for Enterprise and Network Communications Systems

Maximize Your Enterprise and Unified Communication System's Performance with a POWERVAR Total Protection Solution.

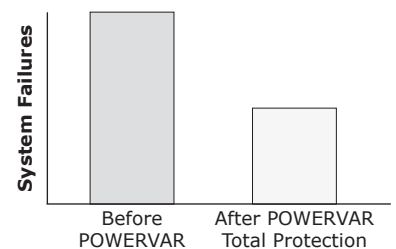
POWERVAR products assure reliably and trouble-free performance for your enterprise and unified communication systems. For voice and network applications any interruption can result in a dramatic loss of productivity, revenue, and customer satisfaction. A POWERVAR Total Protection Solution prevents these disruptions from occurring.

Your network is under constant attack.

Telephone and power lines conduct more than the signals and power that make your voice or network system work. They also carry electrical disturbances that can shut your system down. The occasional lightning strike is an obvious example. Everyday high frequency interference, while less dramatic, can be equally devastating. Caused by utility grid switching as well as elevators, HVAC units, copiers and other equipment on building power lines, these constant power line disturbances can cause momentary service disruptions and component failure.

POWERVAR cuts problems in half.

Those who switch from conventional power protection to a POWERVAR Total Protection Solution report less system downtime, fewer interruptions and longer equipment life. That's why leading installers recommend POWERVAR to keep their enterprise and unified communication system running at peak performance.



POWERVAR power conditioned products reduce system failures by an average of 50%

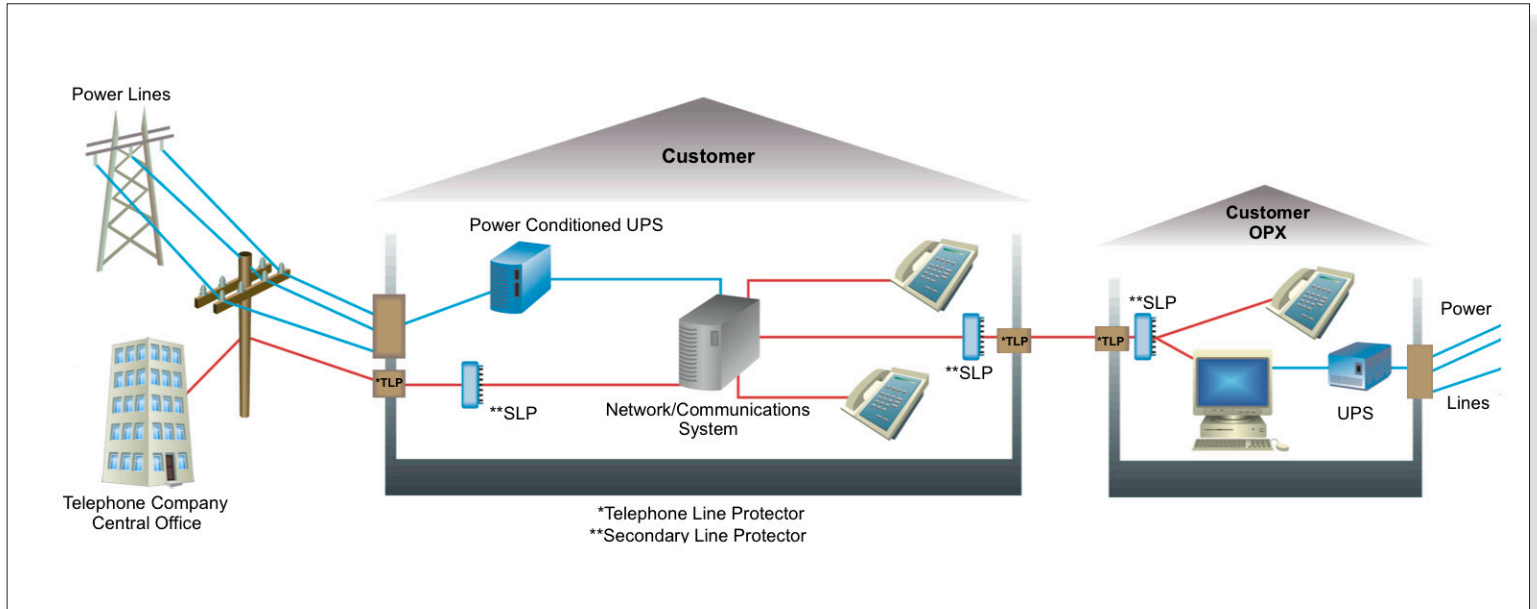
Field data from over 20,000 PBX and Key System installations

POWERVAR Total Protection Solutions

- **Reduces System Downtime**
- **Assures Data Accuracy**
- **Extends Equipment Life**
- **Enables Remote Management**

POWERVAR protection effectively prevents lightning and other electrical disturbances from affecting the performance of critical electronic systems.





With each new generation of communication equipment and networks the circuitry which runs them becomes more sensitive to power quality disturbances. POWERVAR is experienced in protecting sensitive telecommunications and communication network installations. Our solutions are designed specifically to protect PBX, key systems, inter-building cables, VoIP, network applications and E911 installations in the harshest of electrical environments.

POWERVAR UPS and power conditioning technology meet the strictest of installation requirements for communications and network equipment manufacturers. POWERVAR has a wide variety of advanced technology communication protectors for incoming lines of any kind and for cable that extends between buildings. When communication line protection protectors are installed with a POWERVAR UPS or power conditioner they create a Total Protection Solution around your critical system that provides the optimum level of protection against transients and power anomalies.

Quality Power for PBX, Key System, VoIP, Video, and Networks.

The damaging effects of poor power quality and transients (such as lightning) on your telecommunications system or network can result in system down time, lost productivity, and dramatic losses in revenue. A POWERVAR Total Protection Solution provides the optimum level of protection for your telecommunications or network infrastructure by eliminating virtually all harmful power and cable transients that can damage your system. A Total Protection Solution has been proven to reduce printed circuit card failures in the harshest of environments. The end result is a dramatic improvement in system performance, reliability, equipment life and up time.

Quality Power for E911 and Reverse E911 Installations.

The need for Emergency Response Systems has grown dramatically over the last decade, saving thousands of lives each year. Downtime for these systems is simply not acceptable. For that reason it makes sense to provide the best level of protection that is available. POWERVAR understands those requirements and provides a Total Protection Solution which includes UPS and communication line protection products that protect the back room equipment and PSAP work stations in the harshest of environments. When downtime is not an option, POWERVAR products are the answer in providing power quality solutions.

We provide the most complete protection for communication lines.

POWERVAR's patented OnLine and Sentinel communication line protectors filter out harmful transient voltages, yet still allow desired signals to pass through. They are engineered to last longer than other protectors in the field. Their robust design better withstands repeated voltage/current transients. Self-resetting sneak current protection eliminates the cost of replacement and downtime due to nuisance fuse failures.

POWERVAR power conditioning eliminates all power line disturbances.

POWERVAR power conditioners and power conditioned uninterruptible power supplies employ a low impedance, full isolation transformer with POWERVAR's Virtual Kelvin Ground. It's a design that's proven uniquely effective at stopping lightning and other high voltage transients. It completely protects your system against harmful disturbances that other conventional protection lets in.

With fully automated battery backup.

POWERVAR UPSs with MopUPS® Software not only keep your communication systems operating when the power goes out, and provides fail-safe security for your data. When an outage hits, an alert is issued before a safe, unattended shutdown is initiated. When power is restored, your system automatically restarts or can be set for a manual restart. MopUPS offers total control UPS power management with real-time remote monitoring, configuration and notification.

Adding ManageUPS^{NET} Adapter with the optional environmental sensor gives you flexibility and control to monitor and manage:

- UPS for safe system shutdowns and alerts.
- Monitor temperature, humidity, and input contacts.
- Set and monitor output contacts.

For multiple sites, ManageUPS CIO Software is an ideal central monitoring and management system for critical infrastructure in multiple remote locations.

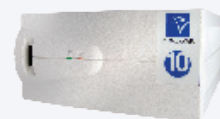
Product	Product VA Range	Network / PBX	Key Systems	External Building Cables	VoIP	E911 Back Room Equipment	E911 PSAP
POWERVAR Power Conditioner	75 VA -375 kVA	•	•		•	•	•
ON Series® UPS	400 - 3000 VA	•	•		•	•	
Sinergy® S II UPS	700 - 3000 VA	•	•		•		•
Security Plus Series UPS	2 - 15 kVA	•			•	•	
N5 Series		•	•	•	•	•	
N6 Series		•	•	•	•	•	
NJ Series		•	•	•	•	•	•
Ethernet protectors		•	•	•	•	•	•
Convergent Series		•	•	•	•	•	
Connectivity Solutions for a central remote management system for critical power infrastructure.		•	•		•	•	•



POWERVAR Total Protection Solution



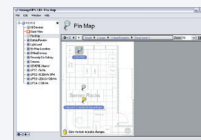
Power Conditioned UPS



Power Conditioner



Communication Line Protectors



Connectivity Solutions

POWERVAR's Total Protection Solutions protect all paths by which electrical disturbances can enter a system.

Providing protection for communication lines (analog, digital or high-speed data) and AC power protection, with or without battery backup, POWERVAR Total Protection assures increased system reliability with far fewer interruptions or outages.

POWERVAR

POWERVAR Communications Market Overview

POWERVAR is a global provider of power quality solutions, headquartered in Waukegan, Illinois, with international sales and distribution offices in Swindon, United Kingdom; Toronto, Canada; Paderborn, Germany; Mexico City, Mexico.

Now including the ONEAC products, POWERVAR offers an extensive line of power protection which includes transformer-based power conditioners and uninterruptible power supplies (UPS), communication line protectors, and connectivity solutions.

POWERVAR is ISO 9001:2000 registered and continues to lead the industry by creating higher standards for power quality to support the increasing use of technology in business, government and nonprofit sectors.

More information about the POWERVAR and ONEAC products is available at www.powervar.com.

www.powervar.com

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