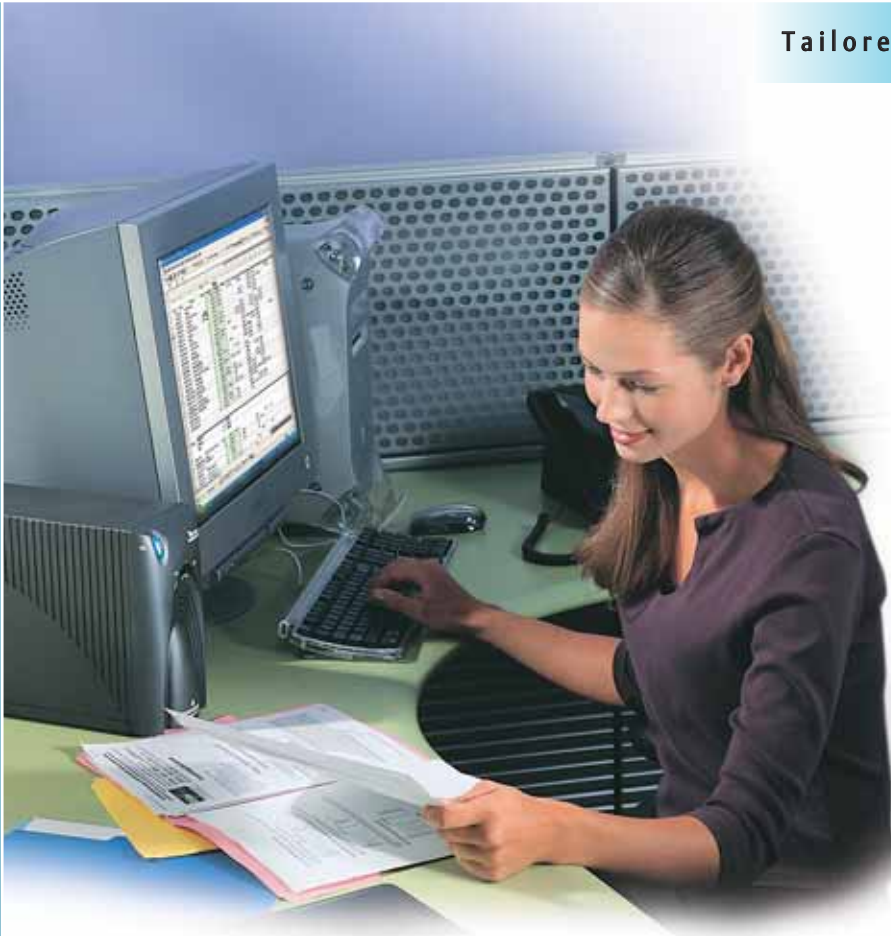# Liebert®

REAL POWER PROTECTION
EVERYWHERE YOU REALLY NEED IT

Tailored Solutions For Power Availability

Compact And Effective Desk Top And Network

Power Protection Including Battery Back-Up

And Monitoring Capabilities For PCs, Network

Workstations, Servers, Network Routers,

Bridges And Hubs, Point-of-Sale Systems, Test

Equipment And Other Sensitive Electronics

EMERSON™
Network Power

THE NEW SIZE OF DESK TOP AND NETWORK POWER PROTECTION

No matter what size your business, computers are no longer a luxury — they are essential to survival. This means your critical information systems are vulnerable to a host of power-related problems. There is one source, however, that can bring you a complete range of one-on-one power protection solutions for computing and telecommunication needs. Liebert offers the industry's most comprehensive selection of power products to safeguard your business operations.

Why Do You Need Protection?

According to industry studies, computer users have to deal with the consequences of power disturbances — such as surges, sags and outages — at a rate of nearly one per day in many parts of the country. To add to this problem, electric utility industry forecasts show a slow but steady decline in power quality. While most modern computing and telecommunications systems are tolerant of some power disturbances, your risk rises daily.
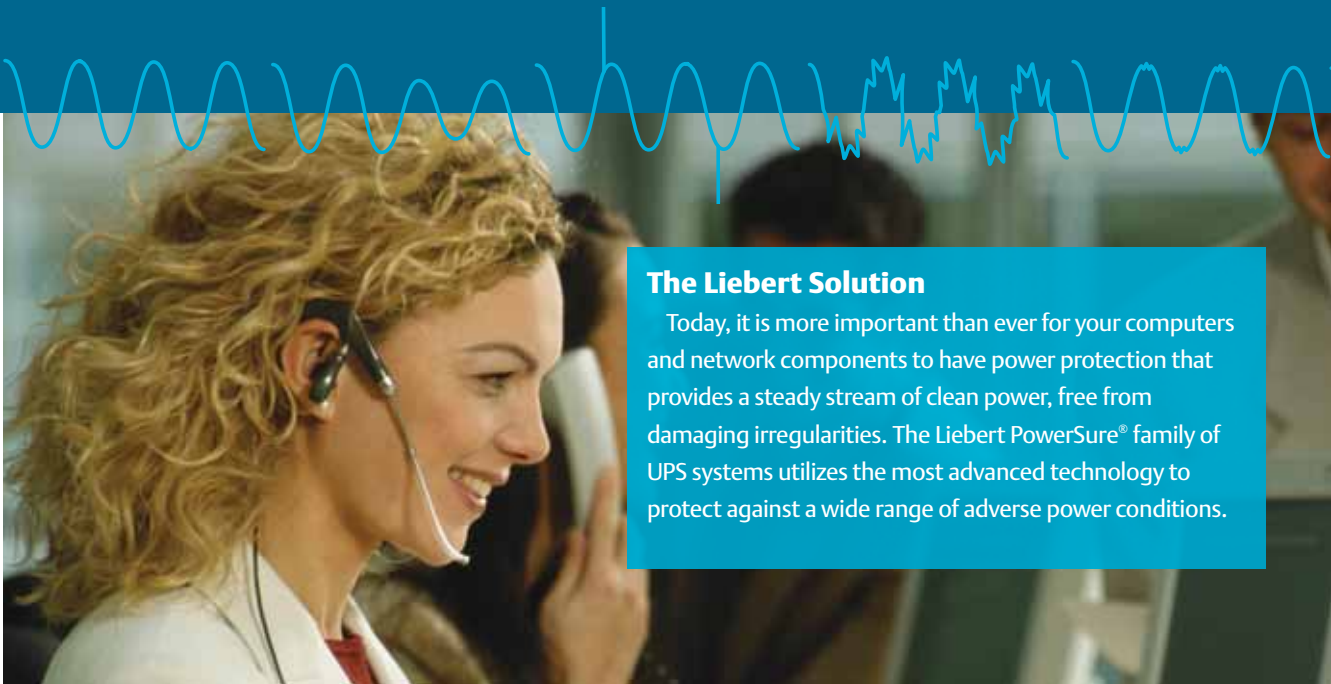
It doesn't even take a complete power outage to affect sensitive computing equipment. You may already be dealing with the hidden problems created by subtle power disturbances:

• Unexplained system and drive crashes.
• Errors and shutdowns of data transmission, or scrambled, unreadable data.
• Numerous, unexplained server shutdowns and re-boots.
• Component failure, often well ahead of projected life span.

What Exactly Causes These Problems?

There are many types of power problems that can potentially damage a stand-alone PC, modem, router or a network configuration involving any of these devices. You need to understand the scope and source of power problems so you can be sure to choose a solution that protects against the wide variety of power disruptions that commonly occur, including:

• Sags	• Noise	• Over And Under Voltage Conditions
• Surges	• Frequency Variations	• Brownouts
• Spikes	• Waveform Distortion	• Blackouts

The Liebert Solution

Today, it is more important than ever for your computers and network components to have power protection that provides a steady stream of clean power, free from damaging irregularities. The Liebert PowerSure® family of UPS systems utilizes the most advanced technology to protect against a wide range of adverse power conditions.

There Really Is A Big Difference In Small UPS Performance

Liebert has engineered the reliability of our large-scale power protection equipment into the PowerSure line of small UPS systems. And while they're trim enough to fit on most desktops, they still offer you Liebert UPS performance with up to 12 minutes back-up time at a typical load — more than enough time to ride through most outages or safely shut down the system in the event of a longer loss of power.

Perfect Protection For Desktop And Small Network Applications

Liebert UPS systems are known throughout the world for their high quality and reliability. Our PowerSure® line of products features compact, full-featured UPS systems including the PST, PSP, and PSA models, available in 350-1000 VA capacities. We also offer the PowerSure Surge II line of high quality surge suppressors.

Liebert desktop power solutions are designed for applications where one or a few pieces of equipment require surge suppression or an uninterruptible power supply (UPS) system to provide basic protection with battery back-up.
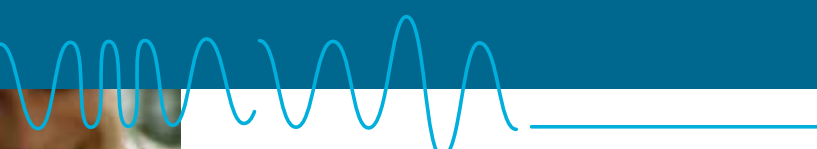
One-On-One Protection Right Where You Need It

Liebert's PowerSure family of surge suppression, off-line UPS and line-interactive UPS gives you a real choice in protection for desktop computers, modems and other individual electronic systems. These units are designed to protect against a wide variety of common power problems including sags, surges, noise, spikes and others, as well as outages. They offer the ability to connect several pieces of equipment for protection against power problems and outages. These systems are ideal for individual home or office PCs and peripherals.

Protecting The Edge Of The Network

In many cases a group of key network servers or other critical components may be connected to proper power protection by a higher quality UPS. However, this by no means guarantees that those nodes out on the network, such as workstations routers and other equipment, are also protected. In many cases, system productivity can be brought to a grinding halt — even if the core network components are protected — simply because users cannot access the system because their workstations are out.

It is important to provide proper power to these network nodes. Liebert PowerSure UPS products are designed to do just that.

Liebert PowerSure® Products offer one-on-one power protection solutions for:
Professional Desktop PCs • Home And Small Office PCs • Servers • Network Workstations • Network Routers, Bridges, and Hubs • Point-of-Sale Terminals • Test Equipment • Other Sensitive Electronics

COMPACT, SENSIBLE OFF-LINE UPS POWER PROTECTION FOR ELECTRONIC EQUIPMENT

4

The Liebert PowerSure PST offers more unique features and extraordinary performance than any other UPS system in its class

The Liebert PowerSure PST is an ultra-compact, off-line UPS that is designed to provide economical one-on-one power protection for a variety of desktop applications. The PowerSure PST is available in two sizes: 350 and 500 VA at 120 VAC and 500 and 650 VA at 230 VAC.

The PowerSure PST offers unique features and superior performance not normally found in competitive products. Designed for easy operation, it provides enough battery back-up to save work in process and shut down your system.

Data Line Surge Suppression (One Input/Two Output Ports)

Liebert PowerSure PST Offers USB Communication

Standard features for all Liebert PowerSure PST models include:

Three Battery Backed UPS Outlets — Provides backup power to keep your PC, monitor, and other connected equipment running in the event of a power outage.

Two Surge-Only Outlets — Provide additional outlets that are perfect for use with a printer, fax machine and scanners connected to your UPS. Spacing to accommodate larger transformer block without covering other outlets.

Lightning And Surge Protection — The transient voltage surge suppression (TVSS) circuitry inside the PowerSure PST provides protection for the connected equipment from incoming spikes, surges, and other power anomalies present on the incoming utility power source.

Data Line Surge Suppression (One Input/Two Output Ports) — The PowerSure PST safely protects modems, phone, fax, Internet, DSL and other communication equipment connected to the UPS.

PowerSure PST Offers USB Communication — Provides USB communication for shutdown capabilities. Certified for Microsoft Windows (XP and 2000) and Mac (OS X version 10.2 or later).

Full Sequenced Battery Testing — The Liebert PowerSure PST provides you with two battery testing options: upon startup of the UPS and an automatic 14-day battery test. Each test provides a comprehensive analysis of the condition of the battery within the UPS, ensuring you that your power will be there when you need it.

UPS Fault Indicator — Provides visual notification of an output overload condition.

Site Wiring Fault Indicator — Ensures that reversed wiring in your wall socket doesn't cause electrical problems for your connected equipment. Also indicates that your wall outlet is properly grounded.

Low Battery Indicator — Notifies user that the UPS battery has only two minutes of backup time available.

Advance Early Warning Of UPS Shutdown — The Liebert PowerSure PST offers you three audible and visual alarms to immediately alert you to an output overload, high temperature or low battery condition and allows you ample time to either correct the condition or shutdown your system before battery time runs out.

Standard Two-Year Warranty — The Liebert PowerSure PST is backed by Liebert's standard two-year warranty, which ensures repair or replacement of your UPS if it experiences problems during the warranty period. Provides additional peace of mind to know that your investment has been protected.

Liebert Product Protection Promise — Up to $25,000 connected equipment protection is provided with the Liebert PowerSure PST.

FULL FEATURED
OFF-LINE UPS
PROVIDES ECONOMICAL, SPACE-SAVING POWER PROTECTION FOR ELECTRONIC EQUIPMENT

The Liebert PowerSure PSP from Liebert is a compact, full featured UPS that delivers cost-effective power protection.

Designed with simple controls for easy operation, the Liebert PowerSure PSP provides over four minutes of battery back-up at full load — more than enough time to save work in process and shut down your system. Perfect for desktop applications, the Liebert PowerSure PSP provides one-on-one power protection for PCs and other sensitive electronic equipment. Three sizes are available: 350, 500 and 650 VA at 120 VAC and 500 and 650 VA at 230 VAC.

For maximum flexibility, a choice of communications options is available — USB, serial or contact closure. This option solves the legacy systems dilemma of what to do with equipment that does not have USB capabilities. A Liebert MultiLink™ automated shutdown software CD, serial communications cable and USB cable are also included.
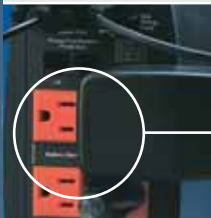
Data Line Surge Suppression

User Replaceable Hot Swappable Batteries Increase product life and offer prolonged, reliable UPS performance.

The Liebert PowerSure PSP offers a variety of other standard features:

Four Battery Backed UPS Outlets — Allow the UPS to be more flexible by allowing more equipment to be connected to the unit, making PowerSure PSP the only power source you need to adequately protect your desktop equipment.

Two Surge-Only Outlets — Additional outlets that are perfect for use with a printer, fax machine and scanners connected to your UPS.

Outlets With Spacing To Accept Transformer Blocks

Outlets With Spacing To Accept Transformer Blocks — Provide spacing to accommodate larger transformer blocks without covering other outlets.

Advance Early Warning Of UPS Shutdown — The PowerSure PSP offers you three audible and visual alarms to immediately alert you to an output overload, high temperature or low battery condition and allows you ample time to either correct the condition or shutdown your system before battery time runs out.

Wider Input Voltage Window — A configurable input power selector switch offers a wider input voltage window. This helps to extend battery life by allowing the UPS to maximize time on utility power before transferring to battery when the input power exceeds specified input voltage limits.

Data Line Surge Suppression — The PowerSure PSP provides spike and surge protection for modems, phone, fax, network, Internet, DSL and other communication equipment via RJ-45 connection.

Greater Than Four Minutes Of Battery Backup At Full Load When Utility Fails — Provides ample time for an orderly shutdown of connected equipment.

User Replaceable Hot Swappable Batteries — Increase product life and offer prolonged, reliable UPS performance.

Full Sequenced Battery Testing — Conducts a comprehensive analysis of the condition of the batteries within the UPS and will notify you when replacement is necessary, ensuring that your batteries will be there when you need them.

Lightning and Surge Protection (TVSS) — The transient voltage surge suppression (TVSS) circuitry inside the PowerSure PSP provides protection for the connected equipment from incoming spikes, surges, and other power anomalies present on the incoming utility power source.

Standard Two-Year Warranty — Liebert's standard two-year warranty ensures repair or replacement of your UPS if it experiences problems during the warranty period. Provides additional peace of mind to know that your investment has been protected.

Liebert Product Protection Promise — Up to $25,000 connected equipment protection is provided with the PowerSure PSP.

Liebert PowerSure PSP Provides A Choice Of Communication Solutions For Your Specific Needs

Serial And Contact Closure Communication Option:

Liebert MultiLink™ automated shutdown software allows you to monitor UPS operation and ensures a graceful unattended shutdown in the event of an extended power failure. This option solves the legacy systems dilemma of what to do with equipment that does not have USB capabilities. A MultiLink CD and serial communications cable are included. Liebert MultiLink is compatible with Microsoft Windows, Linux, Novell and SunSoft Solaris.

USB Communication Option:

The Liebert PowerSure PSP is certified for USB, Microsoft Windows (XP and 2000) and Mac (OS X version 10.2 or later). This allows you to take advantage of built-in power management capabilities that provide monitoring of UPS status and manages the automatic orderly shutdown of the computer if a power outage ever exceeds the battery capacity of the UPS. This option offers true plug and play capabilities. USB cable is included.

Liebert Power Monitoring Capabilities

The operation of the PowerSure PSP can be monitored using

- MultiLink™ Automated System Shutdown Software

A VALUE-ADDED, FULL FEATURED UPS THAT DELIVERS COST EFFECTIVE POWER PROTECTION FOR ELECTRONIC EQUIPMENT

Designed for office environments, the Liebert PowerSure PSA provides perfect power protection for more sophisticated applications, including PCs, point-of-sale systems, small routers, bridges, hubs and other electronic equipment.

The Liebert PowerSure PSA offers a configurable input voltage window allowing users to precisely match their input power. For maximum flexibility, a choice of communications options is available — USB, serial or contact closure. The PowerSure PSA is available in four sizes: 350, 500, 650, and 1000 VA at 120 VAC and 230 VAC.

This unit offers unique features and extraordinary performance not normally found in competitive products. The PowerSure PSA provides a minimum of five minutes of battery back-up at full load...more than enough time to save work in process and shut down your system.

Bracket available for wall mount placement

Data Line Surge Suppression

User Replaceable Hot Swappable Batteries

Standard features of the Liebert PowerSure PSA include:

Double Boost/Single Buck Technology — Prolongs UPS battery life by providing automatic voltage regulation and compensating for incoming power fluctuations. Allows the UPS to maximize time on utility power before going to battery when the input power exceeds specified limits.

Advanced Input Voltage Matching — Allows the UPS to be properly matched to the incoming utility power and adjusts its input window to supply precisely regulated power to its connected load within the selected range.

Advance Early Warning Of UPS Shutdown — The PowerSure PSA offers you three audible and visual alarms to immediately alert you to an output overload, high temperature or low battery condition and allows you ample time to either correct the condition or shutdown your system before battery time runs out.

Four Battery Backed UPS Outlets — Allow the UPS to be more flexible in accommodating more equipment to be connected to the unit, making PowerSure PSA the only power source needed.

Two Surge-Only Outlets — Provide additional outlets that are perfect for use with a printer, fax machine and scanners connected to your UPS.

Outlets With Spacing To Accept Transformer Blocks — Provides spacing to accommodate larger transformer blocks plugs without covering other outlets.

Data Line Surge Suppression — The PowerSure PSA provides spike and surge protection for modems, phone, fax, network, Internet, DSL and other communication equipment via RJ-45 connection. An RJ-11 phone cable is included.

Minimum of Five Minutes Of Battery Backup At Full Load When Utility Fails — Provides ample time for an orderly shutdown of connected equipment.

User Replaceable Hot Swappable Batteries — Increase product life and offer prolonged, reliable UPS performance.

Full Sequenced Battery Testing — Conducts a comprehensive analysis of the condition of the batteries within the UPS and will notify you when replacement is necessary, ensuring that your batteries will be there when you need them.

Lightning and Surge Protection (TVSS) — The transient voltage surge suppression (TVSS) circuitry inside the PowerSure PSA provides protection for the connected equipment from incoming spikes, surges, and other power anomalies present on the incoming utility power source.

Standard Two-Year Warranty — Liebert's standard two-year warranty ensures repair or replacement of your UPS if it experiences problems during the warranty period. Provides additional peace of mind to know that your investment has been protected.

Liebert Product Protection Promise — Up to $25,000 connected equipment protection is provided with the PowerSure PSA.

Liebert PowerSure PSA Provides A Choice Of Communication Solutions For Your Specific Needs

Serial And Contact Closure Communication Option:

Liebert MultiLink™ automated shutdown software allows you to monitor UPS operation and ensures a graceful unattended shutdown in the event of an extended power failure. This option solves the legacy systems dilemma of what to do with equipment that does not have USB capabilities. A MultiLink CD and serial communications cable are included. Liebert's MultiLink is compatible with Microsoft Windows, Linux, Novell and SunSoft Solaris.

USB Communication Option:

The Liebert PowerSure PSA is certified for USB, Microsoft Windows (XP and 2000) and Mac (OS X version 10.2 or later). This allows you to take advantage of built-in power management capabilities that provide monitoring of UPS status and manages the automatic orderly shutdown of the computer if a power outage ever exceeds the battery capacity of the UPS. This option offers true plug and play capabilities. USB cable is included.

Liebert Power Monitoring Capabilities

The operation of the PowerSure PSA can be monitored using

- MultiLink™ Automated System Shutdown Software
- Third Party Monitoring System

Outlets With Spacing To Accept Transformer Blocks

UNEQUALLED SURGE PROTECTION FOR COMPUTERS AND OTHER ELECTRONIC EQUIPMENT

This outstanding line-up of high quality surge suppressors offers protection against power surges, spikes and other problems on incoming utility lines — all of which are capable of permanently damaging or affecting the performance of computers and other sensitive electronic devices.

Liebert PowerSure Surge II provides premium power protection for desktop and home office PCs, network workstations, routers, bridges and hubs, printers, point-of-sale systems and other sensitive electronic equipment. Their high quality transient voltage surge suppression (TVSS) circuitry provides maximum protection in a choice of three different models that allows you to select additional levels of protection for telephones, modem, fax, answering machine, network, cable modems, audio, video and other communications equipment.

Three Models Cover Every Surge Protection Need

The Professional Series — Delivers effective, computer-grade power protection for desktop computers, printers, fax machines, point-of-sale systems and other electronic equipment.

The Network Series — Provides data line surge protection for network, telephone, modem, fax, answering machine, DSL and Internet via RJ-45 connection. Accommodates RJ-11, RJ-12 and RJ-45 connectors.

The DSS Series — Safely protects cable modems, audio and video equipment connected to the surge protector via two sets of coaxial jacks. The DSS900T also provides data line surge protection for telephone, modem, fax, answering machine, DSL and Internet via RJ-11 connection.

All three Liebert PowerSure Surge II models offer unique features and superior performance not always found in other surge protection products:

Eight Surge Protected Outlets — Allow for more electrical equipment to be connected to the PowerSure Surge II.

Spacing For Three Transformer Blocks — Offers spacing to accommodate three transformer blocks that can be connected without covering other outlets.

Two Continuously Powered "Always On" Outlets — Continuously supplies surge protected power to equipment that requires constant power. Assures power to a load even if the main switch is turned off.

90° Angled Input Plug — Allows the PowerSure Surge II input plug to be mounted flush with the wall and the cord to be offset by 45° to prevent it from covering a second outlet.

Six-Foot Line Cord — Offers installation flexibility by providing the necessary length for most applications.

Thermal Fuses — Thermal fuses shut off the surge suppressor and inhibit destructive surges from passing through if the surge suppressor has failed.

Site Wiring Fault Indicator — Ensures that reversed wiring in your wall socket doesn't cause electrical problems for your connected equipment. Also indicates that your wall outlet is properly grounded.

Surge Protection Available Indicator — Immediately alerts you when surge suppression is no longer able to protect your loads.

On/Off Switch With Circuit Breaker — One master switch for ease of use. Circuit breaker protects against overloads.

High Joule Rating Means High Level Performance — Indicates a greater ability to absorb high energy surges without damage.

The Right Size. The Right Protection. The Right Value.

All small UPS systems are not the same. Liebert PowerSure UPS models offer some distinct advantages over popular competitive products. From automatic battery testing to buck and boost circuitry that handles over and under voltage conditions without transferring to battery, PowerSure products are designed with reliability features you just won't find on other units.

Liebert PowerSure UPS product line covers a full range of sizes, features and battery capacities. Depending on your specific needs, there is a PowerSure UPS that is just right for your desktop or network component protection application.

- **Off-Line** — Provides utility power to the protected load under normal conditions with a 2-6 ms break in power when transferring to battery back-up.
- **Line Interactive** — Provides utility power with conditioning to the protected load under normal conditions with a 2-6 ms break in power when transferring to battery back-up.

Selecting The System's Right For You

First, you need to determine the correct size of the UPS unit, or what size model will provide enough protection for your computer needs. The size of UPS you need will depend on the amount of power it is expected to handle. Generally, small UPS units (less than 3000 VA) provide the one-on-one protection common to many small networks or for stand-alone processing on a workstation, server or computer peripheral.

UL 1449 Clamping Voltage — Rugged design keeps high voltage spikes from reaching your connected equipment by meeting the stringent standards of UL1449 with 330V clamping voltage.

EMI/RFI Filtration — Eliminates electrical noise present on your utility power lines, such as electromagnetic interference (EMI) and radio frequency interference (RFI), before it ever reaches your equipment.

Additional DSL and Cable Modem Protection — PowerSure Surge II Network Series provides connections for DSL and Internet lines, while the DSS Series also offers protection for cable modems.

Connected Equipment Agreement — Up to $30,000 connected equipment protection is provided, offering additional peace-of-mind knowing that your investment has been protected.

Liebert PowerSure UPS Product Attributes

	PowerSure PST	PowerSure PSP	PowerSure PSA
Power Capacities	350, 500VA	350, 500, 650 VA	350, 500, 650, 1000 VA
UPS Topology	Off-Line	Off-Line	Line-Interactive
Minimum Battery Backup At Full Load When Utility Fails	Three Minutes	Four Minutes	Five Minutes
Ideal Applications	Home and Small Office Desktop PCs, Workstations	Professional Desktop PCs, Small Office PCs, Network Workstations, Point-of-Sale Terminals	Professional Desktop PCs, Network Workstations, Network Routers, Bridges, and Hubs, Point-of-Sale Terminals

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PROVEN UPS PROTECTION
THAT WILL KEEP YOUR
NETWORK UP AND RUNNING

The Liebert PowerSure PSI offers more unique features and extraordinary performance than any other UPS system in its class.

The PowerSure PSI is a compact, line-interactive UPS system designed especially for IT applications. It provides reliable power protection for servers, critical nodes, network workstations, large network peripherals, network routers, bridges, hubs and other electronic equipment.

More Sizes, More Protection

The flexible design of the Liebert PowerSure PSI allows the unit to be configured as a self-standing mini tower or to be rack-mounted within a 2U space. The PowerSure PSI is available in four sizes, including 1000, 1440, 2200, and 3000 VA at 120 VAC and 230 VAC.

The PowerSure PSI features an innovative line interactive design incorporating double boost/single buck technology. This protects against utility voltage fluctuation by raising and lowering utility power to the right level needed by the sensitive connected equipment. This allows the UPS to prolong battery life by maximizing its time on utility power before going to battery when the input power exceeds specified input limits.
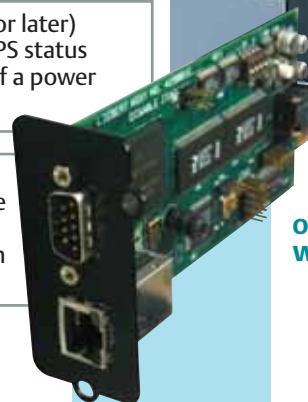
Advanced Communications For Advanced Monitoring Capability

The Liebert PowerSure PSI's multiple communication choices provide four different solutions for your specific communications needs:

Serial and Contact Closure Communication Option — Liebert MultiLink™ automated shutdown software allows you to monitor communication between the UPS and a server. It also ensures a graceful unattended shutdown in the event of an extended power failure.

USB Communication Option — Windows and MAC (OS X 10.2 or later) built-in power management functions provide monitoring of UPS status and manage the automatic orderly shutdown of the computer if a power outage ever exceeds the battery capacity of the UPS.

SNMP Communication Option — The OpenComms® Web Card provides SNMP and web-based management to your PowerSure PSI. The card gives you the power to monitor and control your UPS from not only your network management station, but from any PC running Microsoft® Internet Explorer™.

Optional 2U MicroPOD™ Output Distribution And Maintenance Bypass Module

When your computer system can't be without power, even for scheduled UPS maintenance, Liebert 2U MicroPOD (Power Output Distribution) ensures continuous uptime. It allows you to manually transfer connected equipment to utility power via a maintenance bypass switch, permitting scheduled service or UPS replacement without power disruption.

The Liebert PowerSure PSI includes many other standard features:

Seven To Eight Battery-backed Outlets — Allows the PowerSure PSI to be more flexible in accommodating additional equipment to be connected to the UPS via the 15, 20, or 30 Amp receptacles.

Data line Surge Protection For Telephone/Fax/DSL/Modem — The PowerSure PSI protects modems, phone, fax, network, Internet, DSL and other communication equipment connected to the UPS via the RJ-45 from incoming spikes and surges.

Advance Early Warning Of UPS System Status — The PowerSure PSI offers you multiple audible and visual alarms to immediately alert you to an input voltage fluctuation (buck/boost), output overload, high temperature, low battery or replace battery condition. This allows you ample time to either correct the condition or shut down your system before battery time runs out.

User Replaceable Hot Swappable Batteries — Increase product life and provide prolonged UPS reliable service to customer. Batteries are conveniently located behind the front bezel of the unit.

Configurable Input Voltage Window — Allows the UPS to be properly matched to the incoming utility power and adjusts its input window and transfer points to supply precisely regulated power to its connected loads within the selected range.

Wider Input Voltage Window — Enables the UPS to maximize the use of utility power prior to going to battery when the input power exceeds specified input voltage limits.

Greater Than Five Minutes Of Battery Backup Time At Full Load When Utility Fails — Provides ample time for an orderly shutdown of connected equipment. Optional external battery cabinet provides extended battery runtime for applications that require longer backup time.

Full Sequenced Battery Testing — The PowerSure PSI provides you with three battery testing options: upon startup of the UPS; automatic 14-day battery test, and a manual test. Each test provides a comprehensive analysis of the condition of the batteries within the UPS and will notify you when the internal batteries need to be replaced.

Remote Emergency Power Off Capabilities — Allows the UPS to be remotely shutdown during an emergency.

USB, Microsoft Windows (XP and 2000) and MAC (OS X version 10.2 or later) Certified — Assures plug-and-play installation and operation.

Standard 2 Year Warranty — The PowerSure PSI is backed by Liebert's standard warranty, which ensures that the UPS will be replaced if it experiences problems during the warranty period.

Optional external battery cabinet
Provides extended battery runtime for applications that require longer backup time.

Liebert Power Monitoring Capabilities

The operation of the PowerSure PSI can be monitored using

- MultiLink™ Automated System Shutdown Software
- OpenComms™ Nform Monitoring System
- Third-Party Monitoring Systems

PowerSure Specifications

PSA 350-500 VA

PSA 650 VA

PSP 350-650 VA

PSA 1000VA
Provides two additional battery backup receptacles

Liebert PowerSure® PSA

Model Number	PSA350MT-120	PSA500MT-120	PSA650MT-120	PSA1000MT-120
Power Rating VA/W	350 / 210	500 / 300	650 / 390	1000 / 600
Dimensions: In (mm)				
Unit W x D x H	4.6 x 7.7 x 8.7 (116x196x222)		4.6 x 14.1 x 8.7 (116x358x222)	
Weight: lbs (kg)				
Unit	16.8 (7.6)	17.2 (7.8)	20.7 (9.4)	29.7 (13.5)
Input AC Parameters				
Surge Protection	570 J			
Voltage Range w/o Battery Operation	78 VAC - 150 VAC, DIP switch selectable			
Input Power Cord	6 ft. (1.8m) attached, w/NEMA 5-15 P			
Output AC Parameters				
Output Receptacles	(4) NEMA 5-15R (orange) Battery backup + surge protection (2) NEMA 5-15R (black) Surge protection		(6) NEMA 5-15R (orange) Battery backup + surge protection (2) NEMA 5-15R (black) Surge protection	
Voltage (Battery mode)	120VAC ±8%			
Output Current	2.9 A	4.2 A	5.4 A	8.3 A
Waveform (Battery mode)	Stepped Sinewave			
Frequency	50 Hz or 60 Hz; auto sensing			
Battery Backup Runtime				
Pentium II w 15" Monitor	33min.	45 min.	45 min.	69 min.
Pentium II w 17" Monitor	20 min.	28 min.	28 min.	49 min.
Pentium II w 21" Monitor	19 min.	26 min.	26 min.	47 min.
Pentium III w 15" Monitor	15 min.	23 min.	23 min.	39 min.
Pentium III w 17" Monitor	14 min.	19 min.	19 min.	37 min.
Pentium III w 21" Monitor	9 min.	17 min.	17 min.	26 min.
Pentium 4 w 15" Monitor	10 min.	18 min.	18 min.	27 min.
Pentium 4 w 17" Monitor	8 min.	15 min.	15 min.	25 min.
Pentium 4 w 21" Monitor	-	12 min.	12 min.	24 min.
Recharge Time	6 Hours to 90% capacity			

Liebert PowerSure® PSP

Model Number	PSP350MT-120	PSP500MT-120	PSP650MT-120
Power Rating VA/W	350VA/210W	500VA/300W	650VA/390W
Dimensions: In (mm)			
Unit W x D x H	3.7 x 9.5 x 8 (95 x 240 x 205)	3.7 x 9.5 x 8 (95 x 240 x 205)	3.7 x 9.5 x 8 (95 x 240 x 205)
Weight: lbs (kg)			
Unit	10.2 (4.6)	10.2 (4.6)	10.2 (4.6)
Input AC Parameters			
Surge Protection	570J		
Voltage Range Without Battery Operation	90VAC - 145VAC, DIP switch selectable		
Input Power Cord	6 ft. (1.8m) attached, w/ NEMA 5-15 P		
Output AC Parameters			
Output Receptacles	(4) NEMA 5-15R (orange) Battery backup + surge protection; (2) NEMA 5-15R (black) Surge protection		
Voltage (Battery mode)	120VAC ±8%		
Output Current	2.9 A	4.2 A	5.4 A
Waveform (Battery mode)	Stepped Sinewave		
Frequency	50 Hz or 60 Hz; auto sensing		
Battery Backup Runtime			
Pentium II w/15" Monitor	34 min.	32 min.	45 min.
Pentium II w/17" Monitor	21 min.	22 min.	30 min.
Pentium II w/21" Monitor	20 min.	21 min.	28 min.
Pentium III w/15" Monitor	15 min.	18 min.	24 min.
Pentium III w/17" Monitor	12 min.	15 min.	20 min.
Pentium III w/21" Monitor	10 min.	10 min.	17 min.
Pentium 4 w/15" Monitor	11 min.	11 min.	17 min.
Pentium 4 w/17" Monitor	10 min.	10 min.	16 min.
Pentium 4 w/21" Monitor	–	7 min.	13 min.

PSI 3000 VA

Liebert PowerSure® PST

Model Number	PA350-120U	PA500-120U
Power Rating VA/W	350 / 225	500 / 300
Dimensions: In (mm)		
Unit	6.6 x 9.8 x 3.7	
W x D x H	(167 x 249 x 94)	
Weight: lbs (kg)		
Unit	11.7 (5.3)	13.5 (6.1)
Input AC Parameters		
Surge Protection	570 J	
Voltage Range w/o Battery Operation	98 VAC - 140 VAC ±3VAC	
Input Power Cord	attached 6.5 ft (2 m), w/NEMA 5-15 P	
Output AC Parameters		
Output Receptacles	(3) NEMA 5-15R (orange) battery backup + surge protection (2) NEMA 5-15R (black) Surge protection	
Voltage (Battery mode)	120VAC ±8%	
Output Current	2.9 A	4.2 A
Waveform (Battery mode)	Stepped Sinewave	
Frequency	60Hz ±1Hz	
Battery Backup Runtime		
Pentium II w 15" Monitor	19 min.	25 min.
Pentium II w 17" Monitor	12 min.	18 min.
Pentium II w 21" Monitor	11 min.	15 min.
Pentium III w 15" Monitor	10 min.	14 min.
Pentium III w 17" Monitor	9 min.	13 min.
Pentium III w 21" Monitor	6 min.	9 min.
Pentium 4 w 15" Monitor	8 min.	11 min.
Pentium 4 w 17" Monitor	6 min.	9 min.
Pentium 4 w 21" Monitor	3 min.	6 min.
Recharge Time	12 Hours to 90% capacity	

Liebert PowerSure® Surge II

Performance	PRF555	NET900T	DSS900T
Joules (bigger is better)	600 J	900 J	900 J
UL 1449 Clamping Voltage (smaller is better)	330 V	330 V	330 V
Peak Surge Current (bigger is better)	48,000 A	72,000 A	72,000 A
IEEE Let-Through Voltage * (smaller is better)	<10 V	<10 V	<10 V
EMI/RFI Filtration (bigger is better)	>50 dB	>50 dB	>40 dB
Other Features			
Phone Line Protection	No	Yes	Yes
Cable Protection	No	No	Yes
Number of Receptacles	8	8	8
Number of Always On Receptacles	2	2	2
Thermal Fuses	Yes	Yes	Yes
Reversed Wiring Indicator	Yes	Yes	Yes
Surge Protection Available Indicator	Yes	Yes	Yes
On/Off Switch with Circuit Breaker	Yes	Yes	Yes
Connected Equipment Agreement	$15,000	$30,000	$30,000

Liebert PowerSure® PSI

Model Number	PS1000RT2-120	PS1440RT2-120	PS2200RT2-120	PS3000RT2-120
Power Rating, VA/W	1000VA/750W	1440VA/1080W	2200VA/1650W	3000VA/2250W
Dimensions, W x D x H, in (mm)				
Unit	3.43 x 22 x 17 (87 x 559 x 430)	3.43 x 22 x 17 (87 x 559 x 430)	3.43 x 24.2 x 17 (87 x 615 x 430)	3.43 x 24.2 x 17 (87 x 615 x 430)
Weight, lbs (kg)				
Unit	61.7 (28)	69.4 (31.5)	81.6 (37)	83.8 (38)
Input AC Parameters				
Surge Protection	570J			
Voltage Range Without Battery Operation	78VAC - 150VAC, configurable			
Frequency Range	45 - 65 Hz (±0.1 Hz)			
Input Power Cord	10 ft. (3m) attached, w/NEMA 5-15 P	10 ft. (3m) attached, w/NEMA 5-15 P	10 ft. (3m) attached, w/NEMA L5-30 P	10 ft. (3m) attached, w/NEMA L5-30 P
Output AC Parameters				
Output Receptacles	(8) NEMA 5-15 R	(8) NEMA 5-15 R	(6) NEMA 5-15 R (2) NEMA 5-20 R	(4) NEMA 5-15 R (2) NEMA 5-20 R (1) NEMA L5-30 R
Voltage (Normal mode)	110 / 120 / 127 VAC (configurable) ±10%			
Voltage (Battery Mode)	110 / 120 / 127 VAC (configurable); ±5% before low battery warning; ±8% after low battery warning			
Transfer Time	4-6 ms typical			
Waveform	Sinewave			
Frequency (Normal Mode)	45 - 65 Hz (±0.1 Hz)			
Frequency (Battery Mode)	50 or 60 Hz (±5%); auto sensing			
Overload Warning	>100 - 110%			
Overload Shutdown	>200%; shutdown after 15 cycles, minimum			
Environmental				
Operating Temperature	+32°F to + 104°F (0°C to + 40°C)			
Storage Temperature	+5°F to + 104°F (-15°C to + 40°C)			
Relative Humidity	0% to 95%, non-condensing			
Operating Altitude	Up to 10,000 ft. (3000m) at 95°F (35°C) without derating			
Audible Noise	<40 dBA, internal fan(s) off <50 dBA, internal fan(s) on			
Agency				
Safety	UL 1778, c-UL Listed			
Surge Immunity	IEEE 587, Category A			
Emissions (RFI/EMI)	FCC Part 15, Class B			
Transportation	ISTA Procedure 1A Certification			
Battery Parameters				
Battery Runtime - Load%				
20%	65 min.	45 min.	47 min.	47 min.
40%	37 min.	24 min.	23 min.	22 min.
60%	24 min.	14 min.	14 min.	14 min.
80%	16 min.	9 min.	8 min.	9 min.
100%	11 min.	5 min.	6 min.	6 min.
Recharge Time	4 hours to 90% of rated capacity, after full discharge into resistive load			

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PowerSure® UPS Systems

Power Availability

No organization in the world today has a better understanding of exactly what it takes to keep critical information and industrial processes operating continuously than Liebert.

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There are Liebert systems designed for nearly every application...from basic protection for network PCs, servers or point-of-sale terminals...to highly engineered systems for computer rooms, telecommunications centers, Internet hosting sites, colocation facilities and industrial control rooms. But no matter what the size or complexity, the availability of these critical electronic systems is Liebert's primary focus.

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In the systems protection business, it's when you need someone to count on that you find out whether you've made the right choice. Liebert customers — many of them with us for over three decades — already know how good their decision was.

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