



**PowerSure® PSI**

**Power Availability**

## **HIGH-LEVEL UPS PERFORMANCE AND RELIABILITY FOR SERVER AND NETWORK POWER PROTECTION**



*Compact and Effective Power  
Protection, Battery Back-Up And  
Monitoring Capabilities For PCs,  
Network Workstations, Servers  
and Critical Nodes, Large Network  
Peripherals, Storage Systems, Network  
Routers, Bridges and Hubs,  
Point-of-Sale Terminals, Test  
Equipment and Other  
Sensitive Electronics*



  
**EMERSON™**  
Network Power

# 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.

The flexible design of the 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 3000VA at 120VAC and 230VAC.

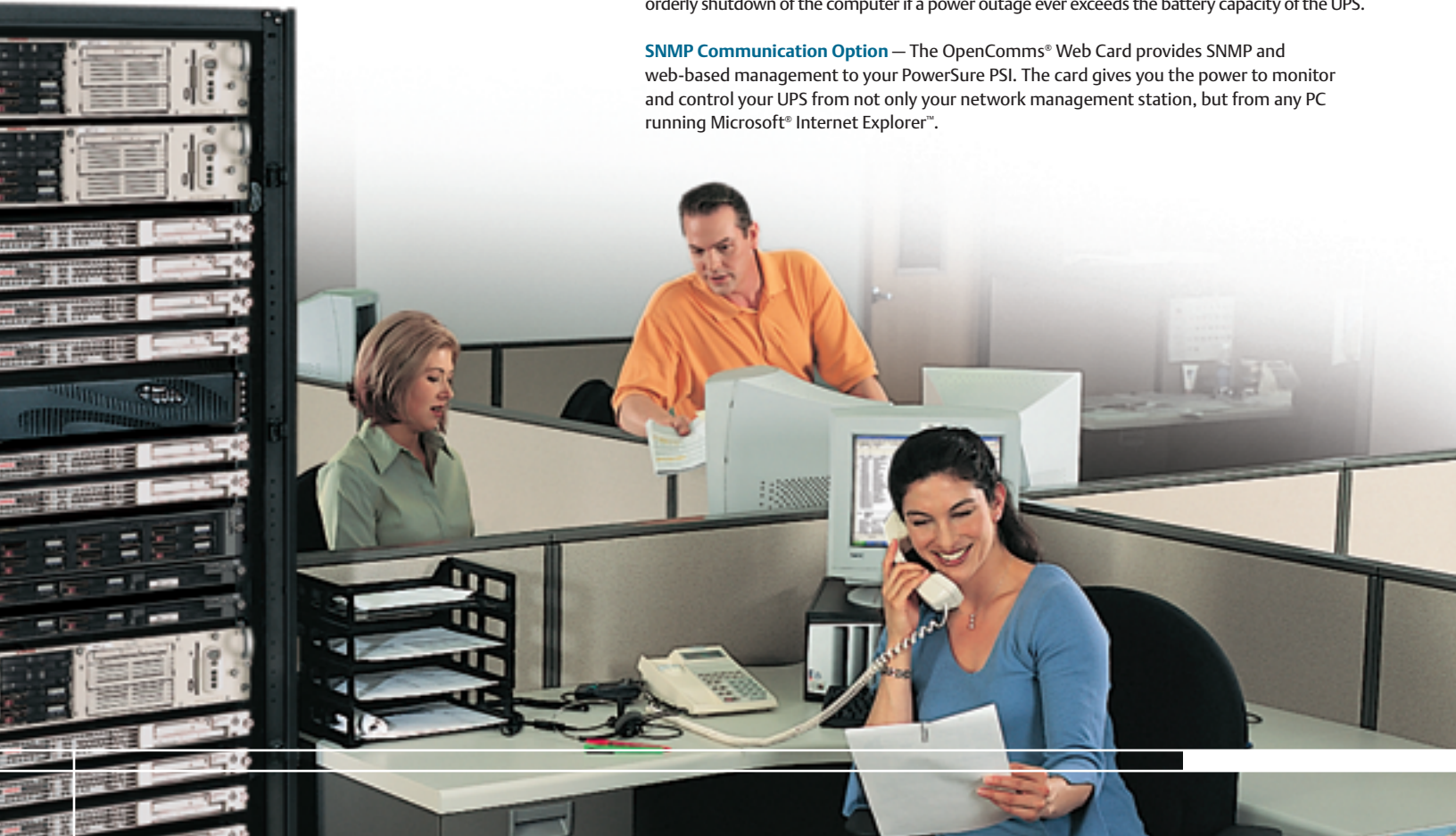
The PowerSure PSI features an innovative line interactive design incorporating double boost/single buck technology. This protects against utility voltage fluctuation by raising and lowering utility power to the right level needed by the sensitive connected equipment. This allows the UPS to prolong battery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

**Multiple communication choices provide four different solutions for your specific communications needs:**

**Serial and Contact Closure Communication Option** — 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 (XP and 2000) 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™.





## The PowerSure PSI includes many other standard features:



*Intellislot SNMP card allow remote monitoring, start-up or restart for connected equipment*

PSI 3kVA Shown

**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.

*LED Indicators on the front of unit provide quick and complete monitoring status*

**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. This capability also allows the unit to meet the required input voltage when the UPS transfers to battery.

**Wider input voltage window** — Prolongs battery life by allowing the UPS to only go to backup when it needs it the most. Enabling 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.

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

**Remote emergency power off** — 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 2U MicroPOD™ Output Distribution And Maintenance Bypass Module	Liebert Power Monitoring Capabilities
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.	<p>The operation of the PowerSure PSI can be monitored using:</p> <ul style="list-style-type: none"> <li>• MultiLink™ Automated System Shutdown Software</li> <li>• OpenComms™ Nform Monitoring System</li> <li>• Third-Party Monitoring Systems</li> </ul>

## PowerSure® PSI UPS

## Power Availability

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			
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			
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			

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That Is  
*The Liebert Experience*

  
**EMERSON™**  
Network Power