



PowerSure PSA

DESKTOP AND NETWORK PROTECTION



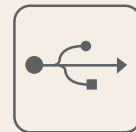
Hot Swap
Batteries



Surge Protection
for Data Lines



Line Interactive
Design with AVR



USB and Serial
Communications Port



Professional
Desktop PC's



Professional
Workstations



Point-of-Sale
Terminals



Small Routers,
Bridges, Hubs



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An Unparalleled Bundle of Features in One Compact Package:

- Hot-Swappable, User Replaceable Batteries
- USB, Serial and Contact Closure Communications
- Four to Six Battery-Backed UPS Outlets
- Two Additional Surge-Only Outlets
- Data-line Surge Protection
- Cold-start on Battery
- Lightning and Surge Protection (TVSS)
- Advanced Early Warning Shutdown
- Minimum Five Minutes of Battery Backup Time
- Configurable Input Voltage Window (220, 230, and 240V)

Line Interactive UPS that Delivers Cost Effective Power Protection for Electronic Equipment

The Liebert PowerSure PSA is a line interactive UPS with Automatic Voltage Regulation (AVR) that offers full-featured power protection for sensitive electronic equipment. PowerSure PSA offers a unique bundle of features and extraordinary performance.

The Powersure PSA offers USB, serial or contact closure communications in the same compact unit. Designed with simple controls for easy operation, the PowerSure PSA provides over five minutes of back-up time at full load, surge

protection for data and phone lines, and easy to service, hot swappable batteries.

Its Double Boost/Single Buck technology and Wide Voltage Window (155-291V) ensures that the UPS continues to supply clean power to your computer equipment without switching to battery even with very high input voltage fluctuations. This will make the battery life last longer and will protect your investment as well as your data.

POWERSURE PSA

DESKTOP AND NETWORK PROTECTION



Applications

Ideally Suited for:

- Professional Desktop PC's
- Professional Workstations
- Small Routers, Bridges & Hubs
- Point-of-Sale Terminals
- Other Sensitive Electronics



On 650 and 1000VA the Hot Swap slot is located on the bottom of the unit.

Plug and Go

PowerSure PSA is designed and packaged for easy set-up and installation. Three status indicators on the front of the UPS signal mains status, overload or overtemperature fault conditions, as well as battery operation and status. The package includes 2 output power cords, a USB cable, a phone-line RJ11 cable, a MultiLink serial communications cable and MultiLink Software CD, and user manual in 5 languages. The PowerSure PSA is certified by Microsoft for use with Windows XP and 2000 systems and by Apple Computer, Inc., for its Macintosh OS X (version 10.2 or later).

Power Communications

With MultiLink Shutdown Software, you can monitor the status of your UPS and safely shutdown your applications while saving your work. With MultiLink Event Management you can also notify your Network Administrator, via email or SMS that power has failed at your workstation. With a MultiLink Network Administration License your Network Manager will be able to quickly identify the issue and take action.

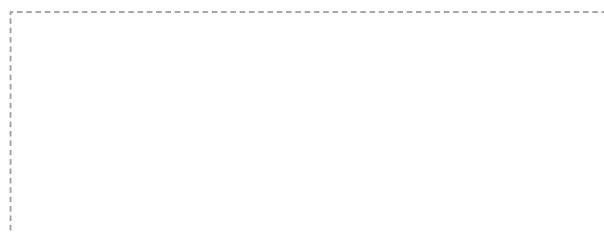


Battery Backed Up sockets offer surge protection in addition to battery autonomy in case of a power failure. Surge Protected Only sockets offer surge protection for devices that do not need battery back up in case of power failure (InkJet Printers, Scanners, Multimedia Equipment).

Technical Data [PowerSure PSA]

Model	PSA350MT-230	PSA500MT-230	PSA650MT-230	PSA1000MT-230
Power Rating				
VA	350	500	650	1000
W	210	300	390	600
Dimensions				
Unit (WxDxH mm)	116 x 196 x 222	116 x 196 x 222	116 x 358 x 222	116 x 358 x 222
Shipping (WxDxH mm)	196 x 310 x 293	196 x 310 x 293	242 x 500 x 316	242 x 500 x 316
Weight				
Unit (kg)	7.0	7.4	9.1	13.2
Shipping (kg)	8.2	8.5	11.2	15.3
Input Parameters				
Surge Protection	660J			
Voltage Range w/o Battery Operation	155-291 VAC Dip switch selectable 220-230-240V			
Frequency Range	46.5-63.5Hz (±0.1)			
Output Parameters				
Output Receptacles	4 IEC-320-C13 (orange) Battery Backup + Surge Protection		6 IEC-320-C13 (orange) Battery Backup + Surge Protection	
Output Power Cables	2 IEC-320-C13 (black): Surge Protection		2 IEC-320-C13 (black): Surge Protection	
Voltage (Normal Mode)	220-230-240VAC ±10%			
Voltage (Battery Mode)	230VAC ±8%			
Output Current	1.5A	2.1A	2.8A	4.3A
Waveform (Battery mode)	Stepped Sinewave			
Frequency	50 or 60Hz (auto-sensing)			
Overload warning	>100% (Normal and Battery Mode)			
Overload Shutdown	>110%			
Battery Parameters				
Type	Valve-regulated, non-spillable, lead acid			
Approved manufacturers	B&B Batteries			
Quantity x Voltage x Rating	1 x 12V x 7Ah	1 x 12V x 9Ah	1 x 12V x 9Ah	2 x 12V x 7.5Ah
Transfer time	4-6ms typical			
Backup Time	At 25°C resistive loading with fully charged batteries			
Full load (minutes)	8	7	5	5
Half load (minutes)	22	21	15	16
Recharge time	6 Hours to 90% capacity, after full discharge into a resistive load			
Battery test	Every 14 days			
Deep discharge protection	Yes			
Black start (w/o mains)	Yes			
Environmental				
Noise	< 40dB			
Operating temperature	0°C to +40°C for altitude 0 to 1500 meter above sea level 0°C to +30°C for altitude 1500 to 3000 meter above sea level			
Communications				
USB Compatibility	USB, Serial RS232, Contact Closure			
Software Compatibility	Windows 2000, Windows XP, Apple Mac OS			
Package	MultiLink 3.0 supports MS Windows NT/2000/XP/95/98/ME, AIX, Linux, Sun Solaris, HP-UX, Novell Netware Multi-language, Multi-page User Manual - MultiLink 3.0 CD or later One (1) DB9 Serial Cable - One (1) USB Cable Two (2) 10A, 2.0 meter output power cord (230V models only) - One (1) RJ11 modem cable			
Warranty				
2 Years				
Standards & Requirements				
Safety	EN 50091-1; CE low voltage directive; TUV Certificate			
EMI / EMC	EN 50091-2, Class B; CE EMC directive			
Electrostatic Discharge	EN61000-4-2, Level 3, Criteria B			
Radiation Susceptibility	EN61000-4-3, Level 3, Criteria A			
Conducted Immunity	EN61000-4-6			
Electrical Fast Transient	EN61000-4-4, Level 3, Criteria A			
Surge	EN61000-4-5, Level 3, Criteria B			
Network Surge	EN60950			
Harmonics	EN61000-3-2			
Flicker	EN61000-3-3			
Shipping & transportation	ISTA Procedure 1A			

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