

Liebert PSA

Desktop and Network Protection

■ AC Power Systems for
Business-Critical Continuity



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 backup 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) ensure 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 increase the battery life and will protect both your investment and your data.

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 the user manual in 5 languages. The PowerSure PSA is certified by Microsoft for use with the Power Management Tool of Windows XP and 2000 systems and by Apple Computer, Inc., for its Macintosh OS X (version 10.2 or later).

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 e-mail 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.

Key Benefits

- 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)

Applications

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

MultiLink Software

- Operating with any Liebert UPS, it protects the network PCs or Servers from crashes caused by power failure
- Prevents the loss of valuable data by performing unattended, orderly shutdown on one computer or multiple network computers with optional license kit
- Manages and monitors UPSs over the network with optional license kit

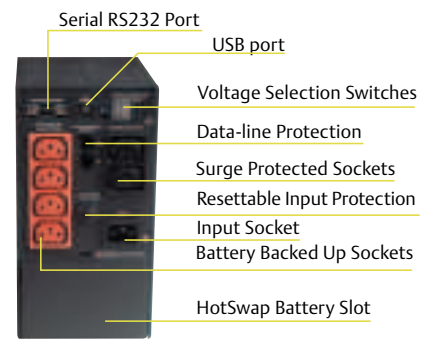


Specification:

Model	PSA350MT-230	PSA500MT-230	PSA650MT-230	PSA1000MT-230
Power Rating				
VA/W	350/210	500/300	650/390	1000/600
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 2 IEC-320-C13 (black): Surge Protection		6 IEC-320-C13 (orange) Battery Backup + Surge Protection 2 IEC-320-C13 (black) : Surge Protection	
Output Power Cables	2 m detached IEC-320-C14 - Wire type: 1mm ² H05W-F 3G)			
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			
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			
Storage temperature	-15°C to 40°C			
Communications	USB, Serial RS232, Contact Closure			
USB Compatibility	Windows 2000, Windows XP, Apple Mac OS			
Software Compatibility	MultiLink 3.X supports MS Windows NT/2000/XP/95/98/ME, AIX, Linux, Sun Solaris, HP-UX, Novell Netware			
Warranty	2 Years - standard (+ 1 year Warranty Extension available on request)			
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/Network Surge	EN61000-4-5, Level 3, Criteria B / EN60950			
Harmonics / Flicker	EN61000-3-2 / EN61000-3-3			
Shipping & transportation	ISTA Procedure 1A			



Shutdown software



Emerson Network Power, a business of Emerson (NYSE:EMR), is the global leader in enabling Business-Critical Continuity™. The company is the trusted source for custom, adaptive and ultra-reliable solutions that enable and protect its customers' business-critical technology infrastructures. Backed by the largest global services organization in the industry, Emerson Network Power offers a full range of innovative power, precision cooling, connectivity and embedded products and services for computer, communications, healthcare and industrial systems. Key product brands within the Emerson Network Power family include Liebert, Knurr, ASCO, Astec, Lorain.

Emerson Network Power.
The global leader in enabling
business-critical continuity.

- AC Power
- Embedded Power
- Precision Cooling
- Connectivity
- Monitoring
- Rack & Integrated Cabinets
- DC Power
- Out Side Plant
- Services
- Embedded Computing
- Power Switching & Controls
- Surge Protection

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