



PowerSure PSA

Power Availability

A LINE INTERACTIVE UPS THAT DELIVERS COST-EFFECTIVE POWER PROTECTION FOR ELECTRONIC EQUIPMENT



- Four to Six Battery-Backed UPS Outlets with Spacing to Accept Transformer Blocks
- Two Surge-Only Outlets
- USB, Serial and Contact Closure Communications
- Data-line Surge Protection
- Double Boost / Single Buck Technology
- Lightning and Surge Protection (TVSS)
- Hot Swappable, User Replaceable Batteries
- Advance Early Warning Shutdown
- Minimum Five Minutes of Battery Backup Time
- Configurable Input Voltage Window (220, 230, 240V)

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 unique features and extraordinary performance not normally found in similar products. The PSA is a unique solution offering USB, serial or contact closure communications from the same unit. Designed with simple controls for easy operation, the PowerSure PSA provides over five minutes of back-up time at full load... more than enough time to save work in process and shut down your system.

Ideally Suited for:

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



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Technical Data (Powersure PSA)

Model Power Rating	PSA350MT-230	PSA500MT-230	PSA650MT-230	PSA1000MT-230
VA	350	500	650	1000
W	210	300	390	600
Dimension				
Unit (W x D x H mm)	116 x 196 x 222	116 x 196 x 222	116 x 358 x 222	116 x 358 x 222
Shipping (W x D x H 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			155-291VAC	
Frequency Range			Dip switch selectable 220-230-240V	
Output Parameter			46.5-63.5Hz (±0.1)	
Output Receptacles				
	4 IEC-320-C13 (orange)		6 IEC-320-C13 (orange)	
	Battery Backup + Surge Protection		Battery Backup + Surge Protection	
	2 IEC-320-C13 (black): Surge Protection		2 IEC-320-C13 (black): Surge Protection	
Output Power Cables				
Voltage (Normal Mode)			2m detached IEC-320-C14: Wire type: 1mm ² H05W-F 3G	
Voltage (Battery Mode)			220-230-240VAC ± 10%	
Output Current	1.5A	2.1A	2.8A	4.3A
Waveform (Battery Mode)			230VAC ± 8%	
Frequency			Stepped Sinewave	
Overload Warning			50 or 60Hz (auto-sensing)	
Overload Shutdown			>100% (Normal and Battery Mode)	
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, Serial RS232, Contact Closure	
USB Compatibility			Windows 2000, Windows XP, Apple Mac OS	
Software Compatibility			MultiLink 3.0 supports MS Windows NT/2000/XP/95/98/ME, AIX, Linux, Sun Solaris, HP-UX, Novell Netware	
Package			Multi-language, Multi-page User Manual - MultiLink 3.0 CD or later	
			One(1) D89 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 4, 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	



Front and rear view of PowerSure PSA

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