

Liebert® PSA

Performance Power Protection for PC's and Office Equipment

500VA ■ 650VA ■ 1kVA ■ 1.5kVA

The Liebert PSA is an economical, environmentally-friendly line-interactive UPS that offers full-featured power protection for small office computers and electronic equipment. Liebert Multilink software automatically powers down your computer in the event of an extended power outage. It also has full event management and display UPS instrumentation on screen.

Designed with simple controls for easy operation, the Liebert PSA provides up to five minutes of back-up time at full load ... more than enough time to save work in process and shut down your system. Liebert MultiLink USB shutdown software and a USB cable are also included, to allow remote alerts and automated graceful shutdown of the UPS and connected systems.

Features



Flexibility

- Available in four sizes: 500, 650, 1000 and 1500VA; 120VAC or 230VAC
- Three to six battery-backed UPS outlets, depending on model size
- One to two surge-only outlets, differentiated by color



Reliability

- Up to five minutes of battery backup time at full load
- Full sequenced battery testing to ensure batteries are available when needed
- Advance early warning of UPS shutdown
- Lightning and surge protection (TVSS)
- RJ-45 port for data line surge protection
- USB communications / shutdown software and cable included
- User-replaceable batteries



Total Cost of Ownership

- Two-year replace or repair warranty



Environment-friendly

- Full RoHS R6 compliance



Liebert Multilink software provides you:

- Warnings to computer users of power loss, and graceful operating system shutdown when needed
- Full functionality and automatic shutdown protection right out of box - virtually no configuration is required



The Liebert PSA is Ideally Suited for

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



Technical Specifications

Model Number	PSA500MT3-230U	PSA650MT3-230U	PSA1000MT3-230U	PSA1500MT3-230U
Input Connection	IEC-320 C14			
Output Connection	IEC-320 C13			
Number of battery-backed outlet	3	3	6	6
Number of surge outlet	1	1	2	2
Communication Interface	USB			
Dimensions: H x W x D (mm)	95 x 356 x 171		147 x 360 x 234	
Net Weight (kg)	6	6.5	10.3	12
Shipping Weight (kg)	7	7.5	12.3	14
Form Factor	Mini tower			
Software	Liebert Multilink 4, support for Windows NT / 2000 / XP / Vista			
Operation				
Capacity (VA / W)	500 / 300	650 / 390	1000 / 600	1500 / 900
Nominal Input Power	230VAC, single phase with ground, 50 or 60Hz auto-select			
Input Voltage Window	160 to 287VAC			
Input Frequency Window	50 / 60Hz ± 5%			
Input Protection Type	Resettable circuit breaker			
Default frequency	50Hz			
Boost Mode Voltage	Input Voltage x 115%			
Buck Mode Voltage	Input Voltage / 115%			
Transfer Time (AC to DC)	4 to 6ms typical			
Surge Protection	220J			
Output (battery mode)				
Voltage	230VAC			
Voltage Regulation	≤ 5%			
Wave Form	Stepped Sinewave			
Battery type	Sealed, non-spillage, maintenance-free, lead acid with 5 year typical lifetime			
Backup Time at Full Load (minutes)	4	3	4	4
Typical Recharge Time	6 to 8hr to 90%			
Agency Approvals				
EMI Classification	IEC / EN / AS62040-2			
Safety	IEC / EN / AS62040-1-1			
Transportation	ISTA procedure 1A certification			
WEEE and ROHS	Yes			
Operation Condition	3,000 meter max. elevation, 0-90% humidity non-condensing 0 to 40°C			
Noise Level	< 40dBA on line mode			

Runtime (in minutes)

Load (W)	500VA	650VA	1000VA	1500VA
200	18	20	50	65
400	5	7	18	25
600	-	4	10	14
800	-	-	7	10
1000	-	-	4	7
1200	-	-	-	5
1400	-	-	-	4

Communications / Shutdown Software

Windows (98 and 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. Liebert Multilink USB shutdown and monitoring software is downloadable.

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