

# Ease of use

## Protect B.

Uninterruptible security with sine wave output for server and network components.

The VI (Line-interactive) technology of the Protect B. reliably protects sensitive company data against power failure, line transients as well as HF disturbances. Large voltage fluctuations are efficiently dealt with by the configuration of the Protect B. automatic voltage regulation (AVR).

The output voltage in all operational modes is a sinewave. Advanced battery management charges the batteries optimally with a highly efficient charger. As a result of the wide input voltage window, the service free batteries have added protection, any battery defect is registered immediately by the electronics.

### Easy handling, variable set-up:

All Protect B. can be mounted as a tower or by using the 19" kits can be rack mounted whereby each model irrespective of its power rating requires only 2 U! The display with its clear organisation of functions provides an easy to use interface for configuration and troubleshooting with the added benefit of separate indicators for UPS load and remaining battery capacity.

### Remote via PC:

Important UPS data is permanently monitored and available via the USB or RS232 interface. Web browser remote monitoring and multi-server shutdown is possible with an optional SNMP adapter.



The battery capacity of the more powerful models (from 1500 VA) can be flexibly extended using external batteries.



### High level flexibility, intelligent functions:

- Modern VI (line-interactive) protection technology with sine wave output voltage
- Compact construction / variable use due to combination design tower / rack
- Robust design: overload capability and short circuit protection
- Intelligent monitoring system with USB and RS232 interfaces
- User-friendly battery design in hot-swappable version (as of 1500 VA)
- Operator friendly display for optimal readability / configuration
- Over voltage protection (RJ11 / RJ45) for ISDN, Fax, modem and network
- Expansion slot for extension cards SNMP / potential free contacts (as of 1500 VA)



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## Protect B: technical specifications

Classification VI SS 211 acc. to IEC 62040-3	B. 750	B. 1000	B. 1500	B. 2000	B. 3000
Type power	750 VA	1000 VA	1500 VA	2000 VA	3000 VA
	500 W	700 W	1050 W	1340 W	2100 W

### UPS-input

Input voltage	220 Vac / 230 Vac / 240 Vac				
Input voltage range without battery mode	161 / 184 – 276 Vac (adjustable)				
Frequency (auto selection)	50 Hz / 60 Hz $\pm$ 5 Hz (> 40 Hz generator operation)				
Current consumption (max.)	5 A	8 A	10 A	10 A	16 A

### UPS-output

Rated output voltage / AVR-technology	220 Vac / 230 Vac / 240 Vac				
Rated output voltage in battery mode	$\pm$ 5 %				
Frequency in battery mode	50 Hz / 60 Hz $\pm$ 0.1 Hz				
Output current (at 230 Vac)	3.2 A	4.3 A	6.5 A	8.7 A	13.0 A
Transfer time at mains outage	2 - 4 ms (typical), 6 ms max.				
Voltage waveform	Sinusoidal				
Overload response at mains operation	110 % for 3 min / 150 % for 200 ms				
Overheat and short-circuit protection	Yes	Yes	Yes	Yes	Yes

### Battery

Type	Sealed, maintenance free; hot swappable (from 1500 VA)				
Rated voltage	24 Vdc		48 Vdc		96 Vdc
Autonomy time at rated load	5 min	5 min	5 min	5 min	5 min
	-	-	Runtime extension with scalable ext. battery packs		
Overload / deep discharge protection	Yes	Yes	Yes	Yes	Yes
Recharge time (to 90% of rated capacity)	3 h	3 h	3 h	3 h	3 h

### Communication

Interfaces	USB and RS232 for status and measurement levels, Slot for enhanced communications (pot.-free contacts / SNMP), EPO port for emergency power off				
	Configuration panel for voltage preselection and setting of operating mode				
Shutdown software (on CD)	Included for all typical operating systems (e.g. Windows, Linux, Mac), single licence CompuWatch with a 5 fold network licence				
Failure indicators (acoustical / optical)	Separate LED bar graphs for UPS load and battery capacity, indicators for mains failure, overload, battery discharge, battery replace, failure				

### General data

Audible noise (1 m distance)	< 45 dB(A)				
Operating temperature range	0° – 35°C				
EMC immunity	EN 50091-2, EN 61000-3-2, EN 61000-3-3				
	EN 61000-6-3 Class A				
Data lines protection	RJ11 (Phone, Fax, Modem) / RJ45 (Ethernet 10 Mbit/s / 100 Mbit/s)				
Humidity	0 - 90 % (non condensing)				
Installation height	Up to 1000 m, at nominal load				
Number of outlets	4 x IEC 320 C13	6 x IEC 320 C13		removable module	8 x IEC 320 C13 1 x IEC 320 C19
Equipment colour	Blackline				
Size appr. W x H x D (mm) UPS unit	235 x 88 x 383		217 x 88 x 414		438 x 88 x 582
Size appr. W x H x D (mm) battery unit	-	-	217 x 88 x 414		438 x 88 x 582
Weight appr. (kg) UPS uni	8.5 kg	9.5 kg	6.5 kg	31.5 kg	
Weight appr. (kg) battery unit	-	-	12 kg	40.5 kg	
Shipment	Mains-cord, 2 load-cords IEC 320-10A, USB and RS232 communication cable, management software "CompuWatch" (CD), user-manual				
Certification	CE				

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