

Ease of use

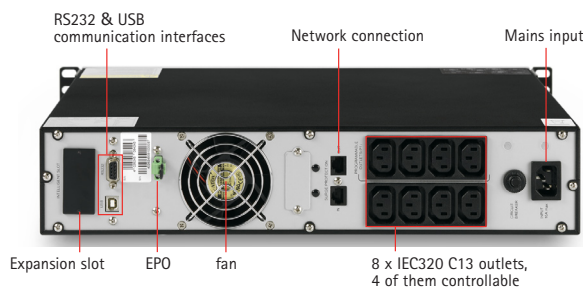
Protect B. PRO

Efficient protection with innovative features for small servers and networks.

With its increased power factor of 0.9lag the Protect B. PRO belongs to the most efficient line-interactive UPS systems. The parallel operation of USB/RS232 interface and the extension slot now enables more communication possibilities. Also the design of the UPS has been improved and fits the requirements of modern IT equipment. The UPS can be configured directly via operator panel and with the innovative folding mechanism batteries can be changed without disconnecting the UPS. With the included accessories and the rotateable display the UPS can be used as rack or tower version.



Protect B. PRO • Display & control terminal



Protect B.1000 PRO • Rear view



High level flexibility, intelligent functions:

- Modern VI (line-interactive) protection technology with sine wave output voltage
- Lower operating costs by higher efficiency (0.9lag power factor)
- Compact dimensions and variable use due to combination design tower/rack, display rotateable
- Overvoltage protection (RJ11/RJ45) for phone, fax, modem and network
- Configuration directly via multilanguage display; display shows most important UPS figures
- Intelligent monitoring with USB- and RS232 interfaces; parallel mode with expansion slot possible
- 36 months warranty on UPS and battery after registration

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PERFECT IN FORM AND FUNCTION

AEG

Protect B. PRO: technical specifications

Classification VI SS 211 acc. to IEC 62040-3	B. 750 PRO	B. 1000 PRO	B. 1400 PRO	B. 1800 PRO	B. 2300 PRO	B. 3000 PRO
Type power	750 VA	1000 VA	1400 VA	1800 VA	2300 VA	3000 VA
	675 W	900 W	1260 W	1620 W	2070 W	2700 W
Part number	600 000 8422	600 000 8424	600 000 8426	600 000 8428 600 000 8429 (BP)	600 000 8431	600 000 8432

UPS INPUT

Input voltage	220 Vac / 230 Vac / 240 Vac					
Input voltage range without battery mode	182 Vac to 280 Vac					
Frequency (auto selection)	50 Hz / 60 Hz \pm 5Hz					
Current consumption (max.)	3.6 A	4.8 A	6.7 A	9.8 A	11 A	14.5 A

UPS OUTPUT

Rated output voltage/AVR-technology	220 Vac / 230 Vac (default) / 240 Vac \pm 10% (\pm 3% free running)					
Frequency in battery mode	50 Hz / 60 Hz \pm 1Hz					
Output current	3.2 A	4.3 A	6.1 A	7.8 A	10 A	13 A
Transfer time at mains outage	2-6 ms (typical), 8 ms max.					
Voltage waveform	sinusoidal					
Overload response (VI operation)	< 120% for 5min. / 120-150% for 10s / >150% for 1s					
Overload response (battery operation)	< 110% for 1min. / 110-150% for 10s / 150-200% for 500ms					

BATTERY

Type	sealed, maintenance free, hot swappable					
integrated	yes	yes	yes	no (external)	yes	yes
Rated voltage	24 Vdc		48 Vdc		72 Vdc	
Battery management	temperature compensated with overload and deep discharge protection; automatic battery test; batterypack detection					
Autonomy time in min. (full/half load, pf=0.9lag.)	4,5 / 10,5	3,5 / 9,5	5,5 / 13,5	10 / 28 (1xBP) 26 / 62 (2xBP) 44 / 100 (3xBP)	4 / 14	4 / 11
Charging time (to 90% of rated capacity)	6h					

COMMUNICATION

User interface	LCD display with digital indication of UPS relevant values					
Interface	RS232 & USB (with status notification and UPS figures), additional communication slot in parallel mode (SNMP/relay card); input contact for emergency power off					
Shutdown software (on CD)	5 network licenses for all common OS (for e.g. Windows, Linux, Mac)					
Failure indicators (acoustical/optical)	3 LED indicators show UPS status, detailed indication via LCD display (mains failure, overload, battery discharge, battery replace, fan failure)					

GENERAL DATA

Efficiency (in ECO mode)	> 97%					
(at whole AVR range)	> 90 %					
Audible noise at 1 m distance (max.)	≤ 45 dB (A)			≤ 55 dB(A)		
Ditto at ECO mode and max. 70% load	≤ 40 dB (A)			≤ 45 dB(A)		
Operating temperature range	0° to +40°C					
Storage temperature range	-20° to +50°C					
EMC conformity	EN 62040-2 Klasse C1, EN 61000-3-2, EN 61000-3-3					
Product safety	EN 62040-1					
Data lines protection	RJ11 (Phone, Fax, Modem) / RJ45 (Ethernet 10 Mbit/s / 100 Mbit/s)					
Humidity	0 - 90% (non condensing)					
Installation height / transportation	operation up to 1000m at full load / air freight up to 10600 m					
Mains input	IEC 320 C14			IEC 320 C20		
Number of outlets / of them controllable	8 / 4			7 / 3		
via connectors	8 x IEC320 C13			6 x IEC320 C13		
				1 x IEC320 C19		
Equipment colour	black metal case / silver front					
Size approx. W x H x D [mm]	440 (19") x 88 (2 U) x 420		440 (19") x 88 (2 U) x 520		440 (19") x 88 (2 U) x 640	
Net weight approx. [kg]	14,6	15,1	21,8	14,4 / 29,5 (BP)	29	29,5
Shipment	mains input cord (1 x EU, 1 x UK), UPS management software „CompuWatch“ (CD), 5 x network licenses, 2 x mounting angles, communication cables (RS232 & USB), 2 x device connection cables, 4 x device stands, operating and safety instructions					
Certification	CE					

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