

PROTECT B. PRO

SINGLE PHASE IN / OUT UPS SYSTEM

Uninterruptible Power Supply

1-Phase Input; 1-Phase Output

**750–3000 VA power supply
with integrated batteries**



Efficient and innovative UPS solutions for servers and networks

With its high power factor of 0.9lag, Protect B. PRO is one of the most efficient systems with VI protection technology.

Many ways of communication are possible, thanks to parallel operation of the RS232 or USB interfaces and the extension slot.

Also, the adaptation of the UPS to the requirements of modern IT environments is reflected by the design. The UPS can be configured directly with the control panel. Batteries can be easily replaced by means of the innovative flap mechanism at the front.

By means of the included accessories and the rotary screen, the UPS can be operated in the rack as well as in the tower mode.

Main characteristics

- » Modern VI (line interactive) protection technology with sinus-shaped output voltage
- » Low operating costs through high efficiency, power factor 0.9lag
- » Compact shape, flexible use through combined design tower/rack, rotary screen
- » Surge protection (RJ11/RJ45) for telephone, fax, modem and network
- » Configuration directly on the LCD
- » Full display of the essential parameters on the screen, e.g. the remaining runtime in minutes
- » Intelligent monitoring system with USB and RS232 interface; parallel operation of USB/RS232 and extension slot is possible

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
Power type rating	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 (UPS incl. internal battery)	600 000 8422	600 001 3872	600 000 8426	600 001 3873	600 000 8431	600 001 3875
Part number (battery pack)		600 001 3876		600 001 3874		600 001 3877
UPS INPUT						
Input voltage	220 V AC / 230 V AC / 240 V AC					
Voltage range without battery mode	±20 %					
Frequency (auto selection)	50 Hz / 60 Hz ±5 Hz					
Current consumption at nominal load (max.)	4 A	5.4 A	7.5 A	9.7 A	12.4 A	16.1 A
UPS OUTPUT						
Rated output voltage/AVR technology	208 V AC / 220 V AC / 230 V AC (default) / 240 V AC ±10 % (±3 % free running)					
Frequency in battery mode	50 Hz / 60 Hz ±1 Hz					
Output current (at 230 V AC)	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 5 min. / 120 – 150 % for 10 s / >150 % for 1 s					
Overload response (battery operation)	<110 % for 1 min. / 110 – 150 % for 10 s / 150 – 200 % for 500 ms					
BATTERY						
Type	Sealed, maintenance free (proprietary brand), hot swappable					
Integrated	Yes	Yes	Yes	Yes	Yes	Yes
Rated voltage	24 VDC		48 VDC		72 VDC	
Battery management	Temperature compensated with overload and deep discharge protection; automatic battery test; battery pack detection					
Autonomy time in min. (full/half-load, cos φ = 0.9lag)	3.5 / 10	3.5 / 11	5 / 13	4.5 / 13.5	3.5 / 13.5	4 / 11
Ditto UPS incl. battery expansion unit	14 / 36		17.5 / 43.5		15 / 36	
Charging time (to 90 % rated capacity)	8 h					
COMMUNICATION						
User interface	LCD display with digital indication of relevant UPS values					
Interface (dual monitoring)	RS232 and USB (with status notification and UPS data), 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 (e.g. Windows, Linux, Mac)					
Failure indicators (acoustic/visual)	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 %					
Efficiency (at whole AVR range)	>90 %					
Audible noise (1 m distance)	≤45 dB(A)				≤55 dB(A)	
Ditto in ECO mode and max. 70 % load	≤40 dB(A)				≤45 dB(A)	
Operating temperature range	0° – 40°C					
Humidity	0 – 90 % (without condensation)					
Operation altitude	Up to 1000 m at nominal load					
EMC conformity	EN 62040-2 Class C2, EN 61000-3-2, EN 61000-3-3					
Product safety	EN 62040-1					
Data line protection	RJ11 (telephone, fax, modem) / RJ45 (Ethernet 10 Mbit/s / 100 Mbit/s)					
Mains input	IEC 320 C14		IEC 320 C20			
Number of outputs/controllable via connectors	8 / 4 8 x IEC 320 C13		7 / 3 6 x IEC 320 C13, 1 x IEC 320 C19			
Equipment color	Black metal case / silver front					
Dimensions approx. W x H x D (mm)	482.6 (19") x 88 (2 U) x 420		482.6 (19") x 88 (2 U) x 520		482.6 (19") x 88 (2 U) x 640	
Weight approx.	UPS incl. battery system		24 kg		29.5 kg	
	Battery expansion unit		16 kg (BP)		26.5 kg (BP)	
Shipment	Mains input cord (1 x EU, 1 x UK), 2 x device connection cables (10 A), additional cable (16 A) for Protect B. 2300 PRO and Protect B. 3000 PRO, 2 x mounting brackets, 2 x base feet, 1 x management software "CompuWatch" (CD), 5 network licenses, RS232 and USB cable, operating instructions					
Conformity	CE					



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