

PROTECT B

SINGLE-PHASE UPS SYSTEM

Uninterruptible power supply

Single-phase input; single-phase output

500 – 1500 VA power range with
USB HID power device interface



The VI (line interactive) technology of the Protect B provides reliable protection for your sensitive company data in the event of power failure, dangerous power surges, and HF interference. More substantial voltage fluctuations are systematically offset via the voltage pre-regulator (AVR) of the Protect B.

Flexible use

The new Protect B series has been specially refined for applications in the SME and SoHo segment and is perfect for protecting NAS systems, ATMs, 3D printers, workstations, PCs, and other IT applications.

In particular, the standard HID power device interface enables software-independent communication and allows the UPS to be integrated directly into a network-attached storage (NAS) management system.

The Protect NAS model also has a much longer autonomy time in the lower partial load range when operated fanless. This makes the Protect NAS ideal for office and home environments.

Optimum control

More extensive monitoring and management tasks in the IT environment can still be carried out by the AEG "CompuWatch" shutdown software provided.

A redesigned, high-contrast LCD display provides information on all key operating conditions and, in particular, on the remaining autonomy time with the current load and power failure.

The systematically refined hardware design with battery-saving charging electronics guarantees many years of use. The UPS front panel makes it easy to replace the batteries.

Key features

- » Modern VI (line interactive) protection technology with sinusoidal output voltage
- » High-contrast LCD display with status information and measured values, including the remaining runtime in minutes
- » Surge protection (RJ11/RJ45) for telephone, fax, router, and network
- » User-friendly hot-swappable battery design
- » "Green mode" can be activated to improve battery availability
- » Intelligent monitoring system with USB interface as HID power device for software-independent UPS management

Classification VI SS 333 acc. to IEC 62040-3	NAS	B. 500	B. 750	B. 1000	B. 1500
Power type rating	500 VA	500 VA	750 VA	1000 VA	1500 VA
	250 W	350 W	450 W	700 W	900 W
Order number	600 001 7639	600 001 6600	600 001 6601	600 001 6602	600 001 6603
UPS INPUT					
Nominal input voltage	220 VAC / 230 VAC / 240 VAC				
Voltage range without battery mode	176 / 184 / 192 VAC – 264 / 276 / 288 VAC (depending on nominal input voltage)				
Frequency (automatic detection)	50 Hz / 60 Hz ±5 %				
Current consumption at full load (max.)	2.7 A	2.7 A	3.9 A	6.1 A	7.6 A
UPS OUTPUT					
Nominal output voltage/AVR technology	220 VAC / 230 VAC (default) / 240 VAC -10 % +6 %				
Nominal output voltage in battery mode	220 VAC / 230 VAC (default) / 240 VAC -10 % +5 %				
Frequency in battery mode	50 Hz / 60 Hz ±0.1 Hz				
Nominal output current (at 230 VAC)	2.1 A	2.1 A	3.2 A	4.3 A	6.5 A
Switchover time in the event of power failure	<10 ms				
Voltage wave form	sinusoidal				
Overload behavior (VI mode)	105 % to <120 % for 300 s / 120 % to 150 % for 10 s				
Overload behavior (battery mode)	105 % to 110 % for 10 s				
BATTERY					
Type	Sealed, maintenance-free (proprietary brand), hot-swappable				
Integrated	Yes				
Nominal DC voltage (DC link)	12 VDC		24 VDC		
Battery management	Deep discharge protection, overload protection, automatic battery test				
Autonomy time at 20 % / 70 % usage	60 min. / 12 min.	27 min. / 4.5 min.	27 min. / 4 min.	30 min. / 5.5 min	27 min. / 4.5 min.
Charging time (to 90 % rated capacity)	7 h		5 h		
COMMUNICATION					
Interface	USB as HID power device				
User interface	LCD display with digital indication of relevant UPS values: Input and output voltage [V] / usage [%] / consumer load [(k)VA] and [(k)W] as well as autonomy time at current load [min.], 2 additional bar graphs for usage and current battery capacity / illuminated on/off button				
Shutdown software (on CD)	5 network licenses for all common OS (e.g. Windows, Linux, Mac)				
Alarms (acoustic/visual)	Acoustic signal transmitter (can be deactivated) and detailed indication via LCD display (power failure, overload, short-circuit, flat battery, replace battery, fan failure; AVR and charging unit failure)				
GENERAL DATA					
Efficiency (normal mode)	≥94 %				
Audible noise (1 m distance)	≤40 dB(A)		≤45 dB(A)		
	Fanless		Speed-regulated fan		
Operating temperature range	0 – 35 °C				
Humidity	0 – 90 %				
Operating altitude	Up to 1000 m at nominal load				
EMC conformity	EN 62040-2 Class C1				
Product safety	EN 62040-1				
Surge protection for data lines	RJ11 (telephone, fax, modem) / RJ45 (Ethernet 10 Mbit/s / 100 Mbit/s)				
Mains input	IEC 320 C14				
Consumer outputs	4 x IEC 320 C13		6 + 2 x IEC 320 C13		
Housing color	Black metal housing / with silver front panel				
Dimensions approx. W x H x D (mm)	150 x 209 x 240		150 x 209 x 340		
Approximate weight	6.8 kg	6.3 kg	6.8 kg	10.5 kg	11.5 kg
Scope of delivery	Mains connection cable, device connection cable, USB communication cable, "CompuWatch" management software (CD), 5 network licenses, operating instructions				
Conformity	CE, EN 50581				

Protect B Display

Separate bar graphs to indicate UPS usage and battery capacity

Retrieval of measured values for UPS input and output and consumer load

Status window to display operating status and detailed fault indication

UPS input and output voltage [VAC]
UPS usage [%]
Expected autonomy time in battery mode [MIN]
Consumer load [(k)VA] and [(k)W]

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