

# 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



VI

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

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POWER SOLUTIONS

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