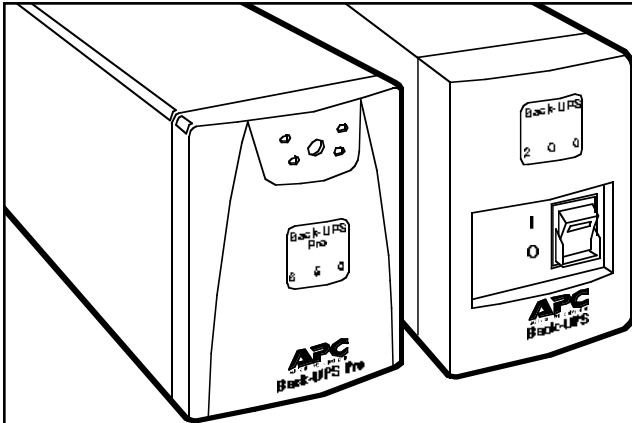


BLACK BOX[®]

NETWORK SERVICES

Back-UPS[™] Series/Back-UPS[™] Pro Series/Back-UPS[™] Office



*Advanced backup power
for your PCs and high-
performance workstations.*

With all these models to choose from, you can pick the one that gives you exactly the protection you need for your equipment.

Key Features

- ▶ **\$25,000 lifetime equipment protection.**
- ▶ **User-replaceable batteries eliminate need to send UPS out for service.**
- ▶ **Easily monitor status of battery to ensure reliability.**
- ▶ **Lightning and surge protection to protect data and shield equipment.**
- ▶ **Hot-swappable batteries.**
- ▶ **Space for transformer blocks.**
- ▶ **Increased voltage capacity and run time.**

New and improved, the Back-UPS[™], Back-UPS[™] Pro Series, and Back-UPS[™] Office uninterruptible power supplies (UPS) help you stay connected and protected when the power goes down.

Each model protects your PCs, modems, monitors, printers, drives, and other peripherals from all sorts of utility-line malfunctions that can damage or destroy sensitive equipment.

When a power blackout, brownout, swell, sag, surge, or other interference hits your system, the UPS automatically transfers power loads to a battery. This battery gives you enough time to save information and properly shut down your programs and save valuable work. Once the initial problem has been corrected, the UPS switches power back to the primary utility power source.

Or choose the Continuous Power Switch—it provides power during scheduled UPS maintenance.

Back-UPS[™] Series

The Back-UPS[™] Series is the best choice for protection for your PC workstations, network workstations, or multimedia systems. You get the backup power you need to protect even the most minor applications from electrical damage.

You can adjust the UPS so power isn't transferred to the battery too often. Alarms warn you of impending utility failures or low-battery conditions.

User-safe, hot-swappable batteries let you replace them without powering down your equipment or sending the UPS in for service. A site-wiring-fault indicator identifies possible wiring faults so you can address the problem before it causes serious damage.

Use the front-panel test switch to mimic a power failure and

initiate an actual transfer to backup power. You can also estimate battery-backup time and determine when the battery needs to be replaced.

A remote-computer interface on versions 280, 420, and 650 gives you the option of installing PowerChute[®] software that automatically shuts down your equipment if necessary.

Back-UPS[™] Pro Series

The Back-UPS[™] Pro Series is the best power-protection choice for advanced workstations running Windows[®] 95 or 98 and other major operating systems.

The Pro Series models PS329A, PS330A, and PS331A include PowerChute[®] Pro for Windows 3.x., Windows[®] 95, Windows NT[™], OS/2[®] for Workstations, and Windows for Workgroups. These software

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packages work with the UPS to save and protect valuable data, and to shut down your applications properly.

(The PowerChute software is ordered separately for models PS332A and PS333A.

A power management feature integrated into the Back-UPS[™] Pro enables you to continue working through under- and overvoltages by supplying the correct amount of power for your electronic equipment.

The outlets themselves are placed with enough space to accommodate larger transformer plugs. This series also offers user-safe, hot-swappable batteries and a site-wiring-fault indicator. The batteries are charged during normal operation for increased efficiency and reliability.

The two newest models, Pro 350 and Pro 500, retain all these features, but have a redesigned plug bank that makes it a snap to add and remove plugs, even the larger transformer types. These models were also designed with a Universal Serial Bus (USB) port,

which means you don't have to give up a regular serial port to manage the unit. These two new-generation UPSs have seven outlets—four with battery back-up/surge protection and three with surge protection.

Back-UPS[™] Office

Back-UPS[™] Office gives you the backup power you need as well as full-time surge suppression in one convenient piece of equipment.

Multiple data links and workstations keep you producing, but they also increase your vulnerability to surges, spikes, power outages, brownouts, and sags. If any of your attached devices are unprotected, your lines and data could be lost or damaged.

Multipath[™] surge suppression protects your attached devices and prevents minor surges and other electrical disturbances from damaging hardware and data. You'll get immediate battery power if a serious power problem develops.

All six AC outlets offer surge protection and three provide UPS battery backup. This way, for example, you can protect your laser printer from surges without the printer causing excessive battery drain during power outages.

The Office series also provides LED signals to monitor battery life, and self-tests to make sure the battery is ready to support your system. As with the other UPS units, the batteries are user-replaceable and easily swapped out.

Continuous Power Switch (CPS)

When your computer system can't be without power, even for scheduled UPS maintenance, a Continuous Power Switch (CPS) ensures continuous uptime. It allows you to manually transfer your connected equipment to utility power via a maintenance bypass switch, permitting scheduled maintenance or UPS replacement without disruption.

Transferring back to UPS power is also easy: simply turn the switch to the indicated position and your load is protected by your UPS system.

The CPS:

- Provides utility power to your attached equipment when switched to maintenance bypass mode.
- Lets you replace batteries, maintain your UPS, or replace the UPS without discontinuing power to your critical equipment.
- Is easy to install—the UPS and utility power are both connected to the CPS via the supplied cords.
- Has a rotary switch and LED indicators that make the unit simple to operate.

Why Buy From Black Box? Exceptional Value. Exceptional Tech Support.

Recognise any of these situations?

- You wait more than 30 minutes to get through to a vendor's tech support.
- The so-called "tech" can't help you or gives you the wrong answer.

- You don't have a purchase order number and the tech refuses to help you.

According to a recent survey by Data Communications magazine, 90% of network managers surveyed say that getting the technical support they need is extremely important when choosing a vendor. But even though network managers

pay anywhere from 10 to 20% of their overall purchase price for a basic service and support contract, the technical support and service they receive falls far short of their expectations—and certainly isn't worth what they paid.

At Black Box, we guarantee the best value and the best support. You can even consult our

Technical Support Experts before you buy if you need help selecting just the right component for your application.

Don't waste time and money—call Black Box today.

Specifications: Back-UPS™ Pro Series

(Clearance—see page 4 for new models.)

Diagnostics: Indicators and software

Run Time:

PS329A: 5 min. w/200 VA;
PS330A: 7 min. w/250 VA;
PS331A: 5 min. w/400 VA;
PS332A: 8 min. w/450 VA;
PS333A: 7 min. w/500 VA

Surge Capability: 320 joules, 0 ns, instantaneous, normal-mode surge voltage let-through when subjected to IEEE 587 Cat. A 6k VA test is less than 5% of test peak voltage

Interface: DB9 serial port

Indicators: Front: On-line, UPS overload, replace battery, on-battery; Rear: Site warning fault, input circuit breaker

Connectors:

PS329A: DB9 interface port, (2) NEMA 5–15R receptacles; (2) RJ-11/RJ-45 (telco or 10BASE-T);
PS330A–PS331A: DB9 interface port, (4) NEMA 5–15R receptacles; (2) RJ-11/RJ-45 (telco or 10BASE-T);

PS332A–PS333A: DB9 interface port, (6) NEMA 5–15R receptacles; (2) RJ-11/RJ-45 (telco or 10BASE-T)

Power: Primary voltage: 120 VAC (88 to 148 VAC) single phase, 50 or 60 Hz ±5% (autosensing)

Size: PS329A: 15H x 8.6W x 33.8D cm (5.9"H x 3.4"W x 13.3"D);
PS330A–PS331A: 16.8H x 11.9W x 36.1D cm (6.6"H x 4.7"W x 14.2"D);
PS332A–PS333A: 21.6H x 17W x 43.9D cm (8.5"H x 6.7"W x 17.3"D)

Weight: PS329A: 6.7 kg (14.8 lb.);
PS330A: 8 kg (17.7 lb.);
PS331A: 9.7 kg (21.4 lb.);
PS332A: 19.3 kg (42.6 lb.);
PS333A: 21.4 kg (47.1 lb.)

Choose the Continuous Power Switch (CPS) for continuous power availability for critical equipment during UPS maintenance.

Specifications: Continuous Power Switch (CPS)

Certification: UL® listed

Outlets: (8) NEMA 5-15R

Transfer Time: < 6 ms

Power: 120 VAC, 60 Hz, 15 Amp, Phase 1

Size: 11.9H x 27.4W x 14.2D cm (4.7"H x 10.8"W x 5.6"D)

Weight: 4.5 kg (10 lb.)

Specifications: Back-UPS™ Series

(Clearance—see page 4 for new models.)

Run Time:

PS322A: 5 min. w/200 VA;
PS323A: 7 min. w/250 VA;
PS324A: 5 min. w/400 VA;
PS325A: 8 min. w/450 VA;
PS326A: 5 min. w/600 VA

Surge Capability:

240 joules, 0 ns, <5 ns typical

Connectors: PS322A–PS323A:

(2) NEMA 5–15R receptacles;
PS324A: (2) NEMA 5–15R receptacles, DB9 interface port;
PS325A–PS326A: (4) NEMA 5–15R receptacles, DB9 interface port

Indicators: UPS ON, site warning

Power: Primary voltage: 120 VAC single phase, 60 Hz ±5%

Size: PS322A–PS324A: 15.2H x 8.6W x 33.3D cm (6"H x 3.4"W x 13.1"D);
PS325A–PS326A: 16.8H x 11.9W x 36.1D cm (6.6"H x 4.7"W x 14.2"D)

Weight: PS322A: 5 kg (11 lb.);
PS323A: 5.4 kg (12 lb.);
PS324A: 9.1 kg (20 lb.);
PS325A–PS326A: 12.2 kg (27 lb.)

Specifications: Back-UPS™ Office 250 VA

(Clearance—see below and page 4 for new models.)

Run Time: 4 min. with 250 VA load, longer with smaller load

Surge Capability: 240 joules, 0 ns, <5% of peak test voltage

Connectors: (6) NEMA 5–15R receptacles (all six with surge protection, three with UPS protection);
(1) RJ-11 (telco);
(1) RJ-45 (10BASE-T)

Indicators: (4) LEDs: on-line, using battery,

electrical fault, replace battery;

Audible alarm: on battery, low battery; overload, replace battery

Power: Primary voltage: 115 VAC ±5%, 60 Hz ±5%

Size: 6.9H x 18.3W x 43D cm (2.7"H x 7.2"W x 16.9"D)

Weight: 3.6 kg (8 lb.)

Specifications: Back-UPS™ Office 500 VA

New and improved! Handles higher VA load than previous model.

Run Time: 9.9 min. with 500 VA load, longer with smaller load

Surge Capability: 445 joules, 0 ns, <5% of peak test voltage

Connectors: (6) NEMA 5–15R receptacles (all six with surge protection, three with UPS protection);
(1) RJ-11 (telco);
(1) RJ-45 (10BASE-T)

Indicators: (4) LEDs: on-line, using battery, electrical fault, replace battery;

Audible alarm: on battery, low battery; overload, replace battery

Power: Primary voltage: 115 VAC ±5%, 60 Hz ±5%

Size: 6.9H x 18.3W x 43D cm (2.7"H x 7.2"W x 16.9"D)

Weight: 3.6 kg (8 lb.)

New and improved models feature transformer-sized outlets (except for BK200 and BK300), increased voltage, and faster run times.

Specifications: Back-UPS™ Pro Series, new and improved

Diagnostics: (4) Front-panel LEDs: on-line, on-battery, UPS overload, replace battery; BP350U, 500U: (1) building wiring fault indicator; Audible alarms: on battery, low battery, UPS overload, replace battery

Noise Suppression: BP350U, BP500U: full-time EMI/RFI filtering

Let Through: BP350U, BP500U: <350V

Battery: Hot-swappable, maintenance-free lead acid

Run Time: BP280S: 7-13 min. w/280 VA; BP420S: 12-18 min. w/420 VA; BP650S: 35-40 min. w/650 VA

Surge Capability: BP280S, BP420S, BP650S: 320 joules, 0 ns

Connectors: BP280S: (3) block-safe outlets, (1) DB9 interface port; BP350U, BP500U: (7) block-safe outlets; (2) DB9 interface ports; (1) USB interface port; BP420S: (6) block-safe outlets, (3) DB9 interface ports; BP650S: (6) block-safe outlets, (3) DB9 interface ports

Interface: DB9 serial port

Power Management: BP350U, BP500U: USB port, Windows 98 integrated software

Run Time: BP280S: 7 min. @ 170W; BP350U (full load): 5 min. @ 220W; BP420S: 5 min. @ 210W; BP500U (full load): 5 min. @ 315W; BP650S: 6 min. @ 210W

Recharge Time: BP350U, BP500U: 6-8 hours

Auto Voltage Regulation: BP350U, BP500U: increases output voltage by 15% when between 92 and 106 VAC

Power: Primary voltage: 120 VAC, 60 Hz

Size: BP280S: 15H x 8.6W x 33.8D cm (5.9"H x 3.4"W x 13.3"D); BP420S, BP650S: 16.8H x 11.9W x 36.1D cm (6.6"H x 4.7"W x 14.2"D); BP350U, BP500U: 23.9H x 12.7W x 20.1D cm (9.4"H x 5"W x 7.9"D)

Weight: BP280S: 7.5 kg (16.6 lb.); BP350U: 6.4 kg (14.2 lb.); BP420S: 9.8 kg (21.6 lb.); BP500U: 7 kg (15.4 lb.);

Ordering Information

ITEM	CODE
Back-UPS® Series, new and improved	
Back-UPS 200	BK200
Back-UPS 300	BK300
Back-UPS 500	BK500M
Back-UPS 650	BK650M
Back-UPS Pro, new and improved	
Back-UPS Pro 280	BP280S
Back-UPS Pro 350	BP350U
Back-UPS Pro 420	BP420S
Back-UPS Pro 500	BP500U
Back-UPS Pro 500 USB	BP500CLR
Back-UPS Pro 650	BP650S
Back-UPS™ Office 250	SP800A
Back-UPS Office 500	BF500
Continuous Power Switch (CPS)	SP440A
<i>Warehouse Clearance:</i>	
Back-UPS™ Series	
Back-UPS 200	PS322A
Back-UPS 280	PS323A
Back-UPS 400	PS324A
Back-UPS 450	PS325A
Back-UPS 600	PS326A
Back-UPS™ Pro Series	
Back-UPS Pro 280	PS329A
Back-UPS Pro 420	PS330A
Back-UPS Pro 650	PS331A
Back-UPS Pro 1000	PS332A
Back-UPS Pro 1400	PS333A
<i>If you need information on PowerChute® and PowerChute Pro Software, please request document number 17219.</i>	

Specifications: Back-UPS™ Series, new and improved

Diagnostics: (2) LEDs: UPS on, site-wiring fault; Audible Alarms: on battery, low battery, UPS overload

Run Time: BK200: 7 min. w/200 VA; BK300: 10-15 min. w/300 VA; BK500M: 15-20 min. w/500 VA; BK650M: 30-35 min. w/650 VA

Surge Capability: 240 joules, 6500 A, 0 ns, <5 ns typical

Connectors: BK200, BK300: (2) NEMA 5-15 outlets, DB9 serial interface port; BK500M: (3) transformer-sized outlets, DB9 serial

interface port; BK650M: (6) transformer-sized outlets, DB9 serial interface port

Indicators: (2) LEDs: UPS ON, site wiring fault

Power: Primary voltage: 120 VAC single phase, 60 Hz ±5%

Size: BK200, BK300, BK500M: 15.2H x 8.6W x 33.3D cm (6"H x 3.4"W x 13.1"D); BK650M: 16.8H x 11.9W x 36.1D cm (6.6"H x 4.7"W x 14.2"D)

Weight: BK200, BK300: 5.9 kg (13.1 lb.); BK500M: 7 kg (15.4 lb.); BK650M: 10.4 kg (23 lb.)