

Desktop Power Solutions

Power protection for
home and office desktop
computer systems



Power protection for home and business desktop computer systems

"Must have" features in a UPS:

- **Multipath protection**

APC Back-UPS units have enough outlets to protect your entire computer system with dedicated outlets for computer, monitor and all peripherals, such as laser printers, Zip drives, scanners, and fax machines, so everything is protected against the threat of bad power.

- **Audible alarms** let you know whenever there is a problem. Since a UPS won't run indefinitely on battery power, you are notified when you need to save files and shut down.

- **Easy overload recovery**

Like your circuit breaker box at home, all APC products have a quick, easy push-button recovery circuit breaker instead of a standard fuse, so you don't have to return the unit to the factory for service. If an overload or a short circuit occurs, you're quickly back in business!

- **User-renewable UPS system**

At the end of the battery's life, you can replace it by recycling the battery for a low cost, which saves you money while protecting the environment.

- **€150,000 & €100,000/£75,000 & £50,000 lifetime equipment protection policy**
APC guarantees its products will protect your properly connected equipment against damaging surges and spikes—for life. Should surge damage occur, APC will repair or replace up to €150,000 & €100,000/£75,000 & £50,000 of your equipment.
(See policy for details.)

- **Two-Year comprehensive product warranty**

Covers all parts and labor, including the battery. *(See warranty for details.)*

- **Industry approvals**

Industry approvals mean a tested, safe and reliable solution to power problems.



APC was chosen by PC Magazine as one of the "Top 100 Technology Companies That Are Changing The World" (10/99).

You depend on your computer. Whether your system is located in your home or office it requires clean, consistent power in order to operate reliably. Unfortunately, with power problems threatening your system twice daily on average, sooner or later you're going to lose data or hardware.

APC has a full line of Power Protection Solutions designed to protect your system against these problems. We offer the world's most reliable power protection for all types of sensitive electronics and power paths.

APC Power Protection products are designed to protect your computer, data, and on a larger scale, your company. You can trust APC for affordable, reliable, high-performance power solutions. With more than 9 million satisfied customers, APC protects more computers worldwide than any other brand.

Check out our comprehensive line of desktop solutions and see which one best suits your needs. For more information, check out www.apc.com on the Web!



For more information, visit APC's Web site at www.apc.com

The problem with power

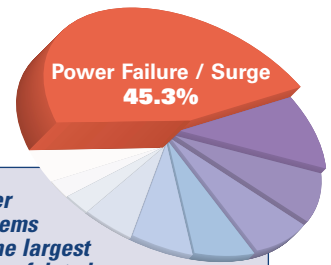
Computer users fall into two groups: those who have lost data due to power problems and those who will. According to an IBM study, your system is subject to an average of 128 power disturbances per month, ranging from surges and spikes, which can damage hardware, to sags, brownouts and complete blackouts, which can cause data loss. Basically, the more you use your computer, the more you stand to lose. Power problems wreak havoc on today's multi-tasking networked and stand-alone computers.

Power problems are the single largest cause of data loss, accounting for 45.3% of disturbances, including keyboard lockups, complete data loss, hardware degradation, and damaged motherboards.

Protect your valuable data with an APC Back-UPS

When a power event occurs, your APC UPS unit instantly switches your computer to battery backup power, allowing you to work through brief power outages without data loss or downtime. In the event of an extended power failure, APC UPS units provide time to save files and shut down your computer safely. High-performance surge suppression protects your computer from electrical noise, damaging power surges and lightning strikes.

These precious minutes of availability ensure that your data and mission-critical business applications remain intact.



Power problems are the largest cause of data loss

Power Failure/Surge	45.3%
Storm Damage	9.4%
Fire or Explosion	8.2%
Hardware/Software error	8.2%
Flood & Water Damage	6.7%
Earthquake	5.5%
Network Outage	4.5%
Human Error/Sabotage	3.2%
HVAC Failure	2.3%
Other	6.7%

Source: Contingency Planning Research



"With the APC Back-UPS in place, the clock will continue to work throughout a power failure."



*APC Back-UPS RS 500,
APC Back-UPS Pro 650,
APC Back-UPS CS 500,
and APC Back-UPS ES 350.*

For Home

In today's high-tech environment, cutting-edge electronics are present in almost every household. Most of us rely on a computer, printer, and Internet access for everyday home use. Power problems put all of this equipment at risk.

With power problems occurring 15 times more frequently than computer viruses (Source: Contingency Planning), you need power protection to keep your hardware safe. Obviously, you would like to reduce the effects of power problems such as keyboard lockups, system crashes, data corruption and lost Internet connections. But the solution has to be easy to install and simple to use. APC has a full line of user-friendly Back-UPS® products to keep your leading-edge equipment up and running.

APC's comprehensive line of power protection solutions can safeguard everything in your home against the threat of bad power. This includes electronics like microwaves, TVs, VCRs, satellite dishes, and alarm clocks—as well as your computer. Read on to find out which of APC's solutions are appropriate for your home needs.



Mac OS 9
(9.0.4 or higher)



Lifetime Connected Equipment Protection!
For as long as you own the product, if your properly connected equipment is ever damaged by an AC surge, including surge due to lightning, APC will replace our product and at our option repair or reimburse the fair market value of the connected equipment.
(Valid in the European Union only).
See policy features and conditions.

For more information, visit APC's Web site at www.apc.com

Back-UPS® ES 350/500 and CyberFort™ 350/500

APC's Back-UPS® ES and CyberFort™ provide affordable battery backup and surge suppression for home and office computers.

Our innovative design allows for convenient access to outlets, whether you position the Back-UPS® ES or CyberFort™ on your desktop, on a wall, or place it on the floor under your desk.

Three battery backup outlets and two surge suppression-only outlets are provided, as well as telephone/DSL protection to deliver multipath protection on both AC power lines and phone lines. Our UPS protects your computer from electrical noise, power surges—even lightning strikes.

The Back-UPS ES and CyberFort™ also include software that automatically saves your files and safely shuts down your computer in the event of a sustained power outage.

MODEL
BF350-FR
BF500-FR
BF350-GR
BF500-GR
BF350-UK
BF500-UK



The new Back-UPS® ES / CyberFort™



APC Shutdown Manager for Mac OS 9

BF350-FR
BF500-FR



- 3 battery + surge outlets
- 2 surge-only outlets
- French/Belgium plug style
- 11 minutes of runtime BF350 (typical)
- 20 minutes of runtime BF500 (typical)

BF350-GR
BF500-GR



- 3 battery + surge outlets
- 2 surge-only outlets
- Schuko plug style
- 11 minutes of runtime BF350 (typical)
- 20 minutes of runtime BF500 (typical)

BF350-UK
BF500-UK



- 3 battery + surge outlets
- 2 surge-only outlets
- BS1363 plug style
- 11 minutes of runtime BF350 (typical)
- 20 minutes of runtime BF500 (typical)

€100.000

Lifetime Equipment Protection Policy! (see policy for details)

£50.000

Lifetime Equipment Protection Policy! (see policy for details)

Product Family Features

- **Five safety power outlets** - 3 battery backup and surge outlets, and 2 surge-only outlets, all with safety shutters
- **File saving, auto-shutdown software** for Windows 98, Windows Me and Mac OS 9 (9.0.4 or higher)
- **Configuration software** for Windows 2000
- **Internet ready** - 1-line phone/fax/modem/DSL surge suppression
- **Easy connectivity** via a special USB cable
- **Saves space** – shaped to fit on or beneath your desktop, with easy access to outlets
- **Cord Management Hook**
- **Long-lasting, auto-recharging, user-replaceable battery system**
- **Visual alarms** - On-Line, On-Battery, Overload, Replace Battery
- **Audible alarms** alert you of changing power and UPS conditions
- **Intelligent Battery Management™** maximizes battery performance, life and reliability
- **Self-diagnostics** automatically test all components every 14 days
- **Two-year comprehensive warranty**
- €100,000/£50,000 Lifetime equipment protection policy



For Home or Business

You depend on your computer. Whether your system is located in your home or office it requires clean, consistent power in order to operate reliably. Unfortunately, with power problems threatening your system twice daily on average, sooner or later you're going to lose data or hardware.

APC Power Protection products are designed to protect your computer, data, and on a larger scale, your company. You can trust APC for affordable, reliable, high-performance power solutions. With more than 9 million satisfied customers, APC protects more computers worldwide than any other brand.

Check out our comprehensive line of desktop solutions and see which one best suits your needs. For more information, check out www.apc.com on the Web!

Internet connections dramatically increase your risk.

While datalines to and from your system are vital, plugging a phone line into your computer doubles its vulnerability to power problems. Add any peripheral (such as a printer), and the threat triples. And if your modem drops during a power sag, you'll lose all data that was in transit.

Let's take lightning as an example. Lightning strikes a nearby transformer. If the surge is powerful enough, it travels instantaneously through wiring, network, serial and phone lines, in a fashion analogous to a tidal wave. Then it travels into your computer through the outlet, cable or telephone. The modem and motherboard are destroyed, then the chips and data are lost.

The utility responds to overvoltages by disconnecting the grid, which creates brownouts and blackouts. If the voltage drops low enough or blacks out, the hard disk may crash, destroying data stored on the disk. In all cases, work-in-progress stored in cache is instantly lost. In the worst case scenario, password protection on your hard drive can be jumbled, or the file allocation table may be damaged, rendering the hard disk useless.



For more information, visit APC's Web site at www.apc.com

Back-UPS® CS 350/500 & Back UPS 650

Reliable power protection for office and home office computers.

The Back-UPS® CS 350 and Back-UPS CS 500 provide plenty of runtime to ride through momentary outages, or to shut down your system in the event of an extended outage. There are outlets for your computer and monitor, and a compact design to conserve valuable workspace.

The Back-UPS® CS 350 and 500 are the first UPSs to offer both serial and USB connectivity, plus fax/modem line protection to absorb surges on datalines. Both the Back-UPS® CS 350 and 500 come with Power Management extensions, APC Shutdown Manager, and PowerChute® plus, APC's award-winning data-saving, automatic system-shutdown software. The Back-UPS® 650 offers more runtime and is only available in a serial version with PowerChute® plus Software (software sold separately).

MODEL
BK350EI
BK500EI
BK650MI



Mac OS 9 (9.0.4 or higher)



APC Power Management Extensions for Windows 98 / ME

BK350EI
BK500EI
BK650MI



- 3 battery + surge outlets
- 1 surge-only outlet
- Phone/fax/modem/DSL protection
- File-saving, auto-shutdown software
- USB and serial connectivity
- Compact design conserves valuable workspace
- 16 minutes of runtime (typical)

BK350EI
BK500EI
BK650MI



- 3 battery + surge outlets
- 1 surge only outlet
- Phone/fax/modem/DSL protection
- File-saving, auto-shutdown software
- USB and serial connectivity
- Compact design conserves valuable workspace
- 22 minutes of runtime (typical)

BK350EI
BK500EI
BK650MI



- 3 battery + surge outlets
- 1 surge-only outlet
- Diagnostic Test/Alarm button
- Serial connectivity
- File-saving, auto-shutdown software (sold separately)
- 44 minutes of runtime (typical)

Product Family Features

- **User-adjustable settings** allow you to customize your operating voltage range and alarm settings
- **File saving, auto-shutdown software** - for Windows 95/98, Windows NT, Windows 2000, Windows Me, and Mac OS9 (9.0.4 or higher) (see model for details).
- **Long-lasting, auto-recharging, user-replaceable battery system**
- **Audible alarms** alert you of changing power and UPS conditions
- **Two-year comprehensive warranty**
- **€100,000/£50,000 Lifetime equipment protection policy**



For Business

Whether you are a CEO, finance manager or network administrator, you're undoubtedly responsible for many mission-critical business processes. Therefore you rely on high-performance network management of your corporate desktops to handle everything from POS systems to large reports.

In today's information age, company data must remain available—downtime is unacceptable. With more and more critical business applications depending on networks, high availability is crucial to the success of your company.

It's for these reasons you should rely on APC's full line of high-performance Back-UPS RS products to protect your corporate desktops and manage your network efficiently. APC products are designed to suit your particular business needs, from the corporate desktop to enterprise-wide network management.

Get system-wide protection with a single UPS.

You need to protect your hardware from damage, prevent data loss and increase your uptime. Comprehensive solutions exist for all types of workstations, from network computers to large CAD systems.

Protect your entire system

An APC Back-UPS® RS provides dedicated outlets for computer, monitor and peripherals such as laser printers, zip drives, scanners, fax machines, as well as fax/modem /network/dataline protection, keeping everything safe from the effects of bad power. You eliminate the threat of power problems simply by plugging Back-UPS® F



For more information, visit APC's Web site at www.apc.com

Back-UPS RS® 500/800/1000/1500

High Performance Power Protection for Business Computers.

This high performance desktop battery backup features maximum protection in a versatile design. The fully featured APC Back-UPS RS can be placed on the floor, under a monitor or on a shelf. Six battery backup outlets with automatic voltage regulation (AVR) enable you to work through even the most frequent brownouts and power sags, keeping 90/110 minutes of battery power for when you need it most. For printers and other devices that do not store or process information, two additional outlets provide surge protection. Both Ethernet 10/100BaseT and telephone dataline surge protection safeguards against surges entering via network connections. The PowerChute Personal Edition software features easy-to-use safe system shutdown with sophisticated power management.

MODEL
BR500I
BR800I *
BR1000I
BR1500I



Product Family Features:

- **Network-manageable shutdown software** - PowerChute *plus* provides UPS manageability, safe system shutdown and data saving for Windows 95/98, Windows Me, Windows 2000 and Windows NT workstations
- **Automatic Voltage-Regulation technology (AVR)** corrects under-voltages and over-voltages, without draining the battery, to handle even the worst brownouts.
- **Internet ready** - 1-line phone/fax/modem/DSL or network dataline surge suppression
- **Long-lasting, heavy-duty, user-replaceable battery system**
- **Visual alarms** - On-Line, On-Battery, Overload, Replace Battery
- **Audible alarms** alert you of changing power and UPS conditions
- **Intelligent battery management** maximizes battery performance, life and reliability
- **Self-diagnostics** automatically test all components every 14 days
- **Two-year comprehensive warranty**
- **BR500I 150.000€**
BR800I 150.000€
BR1000I 100.000€
BR1500I 100.000€

BR500I



- 3 battery + surge outlets
- Automatic Voltage Regulation (AVR)
- Intelligent Battery Management, auto-shutdown software
- 12 minutes of runtime (typical)



Hot-swappable batteries make it easy for users to replace batteries. (available on most APC UPSs)

BR800I



- 4 battery + 2 surge outlets
- Automatic Voltage Regulation (AVR)
- Intelligent Battery Management, auto-shutdown software
- 15 minutes of runtime (typical)

BR1000I BR1500I



- 6 battery + 2 surge outlets
- Automatic Voltage Regulation (AVR)
- Units ships with APC PowerChute Personal Edition
- 17 and 13 minutes of runtime (typical)

* Models of BR800I is forecasted to be available in November 2003

For more information, visit APC's Web site at www.apc.com

The Back-UPS RS 1000 and 1500 have enough power to keep a couple desktop computers running through a power outage.

Product Specifications

For Home / For Business



	BACK-UPS ES 350	BACK-UPS ES 500	BACK-UPS CS 350	BACK-UPS CS 500	BACK-UPS 650
Part Number	BF350-FR, BF350-GR, BF350-UK	BF500-FR, BF500-GR, BF500-UK	BK350EI	BK500EI	BK650MI
INPUT					
Capacity	350VA (225W)	500VA (325W)	350VA (210W)	500VA (300W)	650VA (400W)
Nominal Input	230 Vac single phase, 50 or 60 Hz \pm 5% (auto sensing)				
OUTPUT					
Voltage (on battery)	Stepped approximation to sine wave output at 230 Vac \pm 8% (auto sensing)				
SURGE PROTECTION					
Dataline protection	Phone/fax/modem/DSL protection				—
PHYSICAL					
Total number of receptacles	3 battery + surge, 2 surge only	3 battery + surge, 2 surge only	3 battery + surge, 1 surge only	3 battery + surge, 1 surge only	3 battery + surge, 1 surge only
Maximum Dimensions (H x W x L)	8.1x11.1x 46cm (3.2"x 4.4"x 17.9")	8.1x11.1x 46cm (3.2"x 4.4"x 17.9")	16.5x9.1x28.3 cm (6.5"x3.7"x11.3")	16.5x9.1x28.3 cm (6.5"x3.7"x11.3")	16.8 x 11.9 x 36.1 cm (6.5" x 4.7" x 14.2")
Net weight	3.1 kg (6.8 lb)	3.4 kg (7.5 lb)	7.0 kg (15.4 lb)	7.0 kg (15.4 lb)	10.4 kg (23.0 lb)
USER REPLACEABLE BATTERIES					
Type	User-replaceable, Hot swappable, sealed, maintenance-free lead acid				
Typical recharge time	4-6 hours, depending upon model		4-6 hours, depending upon model		3-6 hours
DIAGNOSTICS AND MANAGEMENT					
Visible indicators	UPS On-line, on battery, UPS overload, replace battery				UPS Online
Audible alarms	On battery, low battery, UPS overload, replace battery				On Batt. Low Batt, UPS overload
Management	14 Day Automatic self-test, manual self-test				Manual self test
COMMUNICATIONS INTERFACE					
RJ45 to USB	X	X	X	X	—
RJ45 to Serial optional (mail in)	—	—	X	X	—
DB9-DB9 RS-232	—	—	—	—	X
SOFTWARE					
Supported Operating Systems	Power Management Extensions for Windows 98, ME, 2000, APC Shutdown Manager for Mac OS 9 (9.0.4 or higher)		Power Management Extensions for Windows 98, ME, 2000. APC Shutdown Manager for MAC, optional PowerChute 5.0SA software with network manageability, data saving, unattended shutdown and UPS diagnostics for Windows 95, 98, 2000 and NT		PowerChute <i>plus</i> software (sold separately) with network manageability, data saving, unattended shutdown UPS diagnostics for Windows 95, 98, 2000 and NT
CONFORMANCE					
Agency approvals	CE, VDE, PCBC, Gost-R, C-Tick, A-Tick				
Warranty	2 year comprehensive, including battery				
Equipment Protection Policy	€100,000/£50,000 lifetime protection, including lightning. Valid in European Union only (please see policy for details)				
TYPICAL RUNTIME IN MINUTES (Runtimes may vary depending on your equipment. For the most recent sizing information go to sizing.apc.com)					
	BACK-UPS ES/CYBERFORT™ 350	BACK-UPS ES/CYBERFORT™ 500	BACK-UPS CS 350	BACK-UPS CS 500	BK650MI
Runtime	11	20	16	22	44

For Home and Business



	BACK-UPS RS 500	BACK-UPS RS 800	BACK-UPS RS 1000	BACK-UPS RS 1500
Part Number	BR500I	BR800I	BR1000I	BR1500I
Capacity	500VA (300W)	800VA (540W)	1000VA (600W)	1500VA (865W)
Nominal Input	230 Vac single phase, 50 or 60 Hz ± 5% (auto sensing)			
Voltage (on battery)	Stepped approximation to sine wave output at 230 Vac ± 5% (auto sensing)			
Automatic Voltage Regulation (AVR)	Factory Default: (on line) Increases output 15% to 30% above input voltage if between -30% to -38% of nominal. Factory Default: (on line) Decreases output 13% below input voltage if up to 28% of nominal.			
Dataline protection	Phone/fax/modem/DSL or 10/100 Base-T			
Total number of receptacles	3 battery + 1 surge	4 battery + 2 surge	6 battery + 2 surge	6 battery + 2 surge
Maximum Dimensions (H x W x L)	16.5x91x28.4cm (6.5" x 3.6" x 11.2")	22.86x10.16x32.38cm (9" x 4" x 12.75")	37 x 8.6 x 33.2 cm (14.6" x 3.4" x 13.1")	37 x 8.6 x 33.2 cm (14.6" x 3.4" x 13.1")
Net weight	5.9kg (12.9lb)	9.32 kg (12.9lb)	10.6 kg (23.3lb)	11.5 kg (25.5lb)
Type	Hot swappable, sealed, maintenance-free lead acid			
Typical recharge time	8 hours		8-15 hours, depending upon model	
Visible indicators	UPS On-line, on battery, UPS overload, replace battery, site wiring fault			
Audible alarms	On battery, low battery, UPS overload, replace battery			
Management	14 Day Automatic self-test, manual self-test			
DB9-DB9 RS232	X	X	X	X
Supported Operating Systems	PowerChute Personal Edition Software, with network manageability, data saving, unattended shutdown and UPS diagnostics for Windows 98, 2000, XP, 2003, Mac OS X			
Agency approvals	VDE, CE, C-tick, Gost-R, and PCBC (B mark) certified, EN 60950, EN 55022, VDE 805, CN 50082, EN 50091			
Warranty	2 year comprehensive, including battery			
Equipment Protection Policy	€150,000/£75,000 lifetime protection, including lightning Valid in European Union only (please see policy for details)		€100,000/£50,000 lifetime protection, including lightning Valid in European Union only (please see policy for details)	
Runtime	12	15	17	13

Award-winning surge protection for desktop computers

One out of four computers gets hit by a major power event every year. It's not a question of if you will experience a power problem — it's a matter of when. Even if you avoid a major catastrophe, every computer gets hit daily with sags, surges, and electrical noise that can cause system lock-ups and data corruption. Short term increases in voltage, or surges, can occur for a number of reasons. Sometimes they happen when high-powered electrical motors in common household appliances are switched off, causing extra voltage to be dissipated through the power line.

A good surge suppressor should protect your equipment and extend your system's life by allowing only clean, safe power through to your equipment.

In order to provide that clean, safe power, your surge suppressor must be able to reduce harmful excess voltage, filter electrical noise, and, in the event of a catastrophic surge event, "give its life" to stop future spikes and surges.



APC SurgeArrest® E15-FR



APC SurgeArrest® E25-GR

APC Basic Surge Protector P5-GR



APC Basic Surge Protector with Tel P5T-FR



APC Basic Surge Protector P4-UK

Advanced power protection for servers and datacenters

APC Smart-UPS®

Performance power protection for servers and networks

APC's award-winning Smart-UPS range in size from 420VA to 5000VA, are available in tower and rack-mount configurations and are perfect protection for everything from small business to enterprise servers.

Smart-UPS provide reliable battery back-up, network-grade line conditioning, safe shutdown capabilities with PowerChute® plus and remote management via a Web/SNMP Management Card.



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APC's manufacturing system is certified to ISO9001 & ISO14001 standards.

