

**Back-UPS CS**  
**Back-UPS CS 500**



APC Back-UPS CS, 300 Watts / 500  
VA, Input 120V / Output 120V, Interface Port  
DB-9 RS-232, USB

**Includes:** CD with software, Cord management  
straps, USB cable, User Manual

**Standard Lead Time:** Usually in Stock

## BK500 Features

Battery failure notification	Provides early-warning fault analysis on batteries enabling timely preventive maintenance
Battery-protected and surge-only outlets	Reserves power capacity and run time for connected equipment that require battery back-up while providing surge only protection for less critical equipment
Cold-start capable	Provides temporary battery power when the utility power is out.
Serial Connectivity	Use any Home Automation network to monitor and control the S20 through its RS-232 serial port. For information on how to communicate with the S20, see APC's Application Note #102. Crestron and AMX installers should visit their respective websites for information on how to integrate the S20 into those networks.
Hot-swappable batteries	Ensures clean, uninterrupted power to protected equipment while batteries are being replaced
Disconnected battery notification	Warns when a battery is not available to provide backup power.
Dataline Surge Protection	Provides protection of connected equipment from power surges on the data lines.
Automatic self-test	Periodic battery self-test ensures early detection of a battery that needs to be replaced.
Audible Alarms	Provides notification of changing utility power and UPS conditions.
User-replaceable batteries	Increases availability by allowing a trained user to perform upgrades and replacements of the batteries reducing Mean Time to Repair (MTTR)
USB Connectivity	Provides management of the UPS via a USB port (not available on all models).
Serial Connectivity	Provides management of the UPS via a serial port.
Transformer-block spaced outlets	Protect equipment with input transformer blocks without blocking access to other receptacles.
Intelligent Battery Management	Maximizes battery performance, life, and reliability through intelligent, precision charging.
Safety-agency approved	Ensures the product has been tested and approved to work safely with the connected service provider equipment and within the specified environment. UL, FCC, CE, C-Tick approvals.
Lifetime data recovery warranty	Provides peace of mind by providing professional data recovery services in the event data is lost due to the failure of the unit.
Battery replacement without tools	Allows quick, easy battery replacement.
LED status indicators	Quickly understand unit and power status with visual indicators.

## Back-UPS CS Features & Benefits

<b>Protection</b>	
Data line surge protection	Protects connected loads from surges, spikes, lightning, and other power disturbances.
Battery-protected and surge-only outlets	Reserves power capacity and run time for connected equipment that require battery back-up while providing surge only protection for less critical equipment
<b>Convenience</b>	
LED status indicators	Quickly understand unit and power status with visual indicators.

Audible Alarms	Provides notification of changing utility power and UPS conditions.
Transformer-block spaced outlets	Protect equipment with input transformer blocks without blocking access to other receptacles.
Automatic self-test	Periodic battery self-test ensures early detection of a battery that needs to be replaced.
Battery replacement without tools	Allows quick, easy battery replacement.
<b>Availability</b>	
Cold-start capable	Provides temporary battery power when the utility power is out.
Hot-swappable batteries	Ensures clean, uninterrupted power to protected equipment while batteries are being replaced
Automatic restart of loads after UPS shutdown	Automatically starts up the connected equipment upon the return of utility power.
Resettable circuit breakers	Enables a quick recovery from overload events.
<b>Safety</b>	
Safety-agency approved	Ensures the product has been tested and approved to work safely with the connected service provider equipment and within the specified environment. UL, FCC, CE, C-Tick approvals.

## Output

Output Power Capacity	300 Watts / 500 VA
Max Configurable Power	300 Watts / 500 VA
Nominal Output Voltage	120V
Output Connections	(3) NEMA 5-15R (Battery Backup)
	(3) NEMA 5-15R (Surge Protection)



## Input

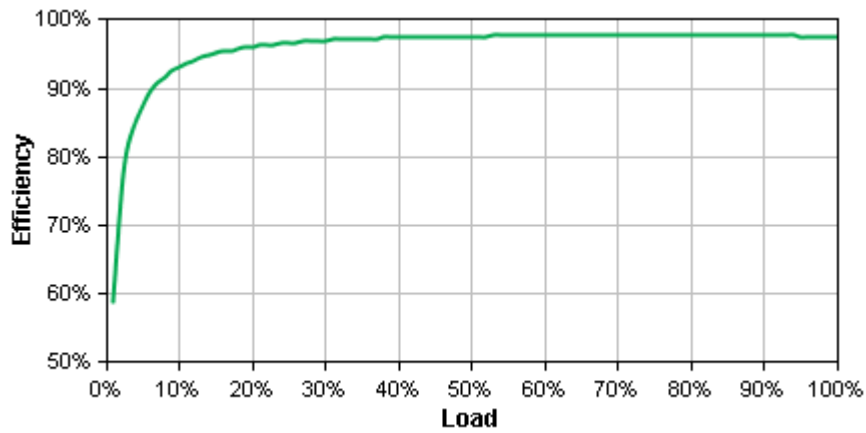
Nominal Input Voltage	120V
Input Frequency	50/60 Hz +/- 3 Hz (auto sensing)
Input Connections	NEMA 5-15P
Cord Length	1.83 meters
Input voltage range for main operations	98 - 140V



## Batteries & Runtime

Battery Type	Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leakproof
Typical recharge time	8 hour(s)
Replacement Battery	<a href="#">RBC2</a> , <a href="#">RBC2J</a>
RBC™ Quantity	1
Typical Backup Time at Half Load	15.4 minutes (150 Watts)
Typical Backup Time at Full Load	3.4 minutes (300 Watts)
Runtime Chart	<a href="#">Back-UPS CS</a>

## Energy Use/Efficiency



Curve fit to measured efficiency data. All measurements taken in normal operating mode, at typical environmental conditions, with nominal electrical input and resistive load output.

[View Enlarged Chart](#)

## Communications & Management

Interface Port(s)	DB-9 RS-232,USB
Control panel	LED status display with On Line : On Battery : Replace Battery and Overload indicators
Audible Alarm	Alarm when on battery : distinctive low battery alarm : overload continuous tone alarm

## Surge Protection and Filtering

Surge energy rating	480 Joules
Filtering	Full time multi-pole noise filtering : 5% IEEE surge let-through : zero clamping response time : meets UL 1449
Data Line Protection	RJ-11 Modem/Fax/DSL protection (two wire single line)

## Physical

Maximum Height	165.00 mm
Maximum Width	91.00 mm
Maximum Depth	284.00 mm
Net Weight	6.27 KG
Shipping Weight	6.95 KG
Shipping Height	263.00 mm
Shipping Width	175.00 mm
Shipping Depth	357.00 mm
Master Carton Units	2.00

Master Carton Weight	31.50 lbs.
Color	Beige
SCC Codes	1073130401630 1
Units per Pallet	80.00


## Environmental

Operating Environment	0 - 40 °C
Operating Relative Humidity	0%
Operating Elevation	0-3000 meters
Storage Temperature	-15 - 45 °C
Storage Relative Humidity	0%
Storage Elevation	0-15000 meters
Audible noise at 1 meter from surface of unit	45.00 dBA
Online Thermal Dissipation	24.00 BTU/hr

## Conformance

Regulatory Approvals	FCC Part 15 Class B, Industry Canada, UL 1778, cUL Listed
Standard Warranty	3 years repair or replace

\*\*The time to recharge to 90% of full battery capacity following a discharge to shutdown using a load rated for 1/2 the full load rating of the UPS.

	on the rear panel of the Back-UPS) by pushing the circuit breaker button fully inward until it catches.	
The wall outlet that the Back-UPS is connected to does not supply utility power to the unit.	Connect the Back-UPS to another wall outlet or have a qualified electrician check the building wiring.	

10. Fully insert the battery fully into the Back-UPS.
11. Slide the battery compartment cover back into place.
12. The Replace Battery indicator will shut off within the UPS is switched On.

The old battery must be recycled. Deliver the battery to an APC in the packing carton that came with the new battery. APC will pay for the shipping of the old battery with the new battery.

### Back-UPS does not provide expected backup time

Back-UPS is excessively loaded.	Unplug non-essential Battery Backup connected equipment, such as printers and plug them into Surge Only outlets. Note: Devices that have motors or dimmer switches (laser printers, heaters, fans, lamps, and vacuum cleaners, for example) should not be connected to the Battery Backup outlets.	
Back-UPS battery is weak due to recent outage and has not had time to recharge.	Charge the battery. The battery charges whenever the Back-UPS is connected to a wall outlet. Typically, eight hours of charging time are needed to fully charge the battery from total discharge. Back-UPS run-time is reduced until the battery is fully charged.	
Battery requires replacement.	Replace battery (see Order Replacement Battery). Batteries typically last 3-6 years, shorter if subjected to frequent power outages or elevated temperatures.	

### A red indicator is lit

Battery is not connected properly.	Check the battery connections. Consult "Connect the Battery" under "Installation" on the front page of this document. It shows how to access the battery and connect the wires.	
The Overload indicator is lit if equipment connected to the Battery Backup outlets is drawing more power than the Back-UPS can provide.	Move one or more equipment power plugs to the Surge Only outlets.	
Battery requires replacement.	The battery should be replaced within two weeks (see "Order Replacement Battery"). Failure to replace the battery will result in reduced run-time during a power outage.	

### Red indicators are flashing

Back-UPS failure.	Call APC for service.	
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### Replace Battery indicator lit and an alarm sounds when the Back-UPS is turned on

Internal battery not connected.	Check the battery connections. Consult "Connect the Battery" under "Installation" on the front page of this document. It shows how to access the battery and connect the wires.	
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## Service

**If the Back-UPS arrived damaged, notify the carrier.**

**If the Back-UPS requires service, do not return it to the carrier.**

1. Consult the Troubleshooting section to eliminate common causes of the problem.
2. Verify that the circuit breaker is not tripped. A tripped circuit breaker will prevent the Back-UPS from operating.
3. If the problem persists, consult APC On-line Technical Support (see below).
  - When calling APC Technical Support, have the Back-UPS model number and date of purchase available. Be prepared to troubleshoot the problem with a technical Support representative. If this is not successful, a Return Merchandise Authorization (RMA) number and a shipping address.
  - A Back-UPS under warranty will be repaired at no cost to the customer from the date of purchase. APC's standard procedure will be to ship the replacement unit. APC will ship the replacement unit received by the repair department, or cross ship upon the customer pays for shipping the unit to APC. APC pays for the replacement to the customer.
  - Customers who must have the original unit back due to warranty schedules must declare such a need at first contact with technical support.
  - If the warranty has expired, there is a repair charge.

For return:

- Disconnect the red battery terminal wire from the Back-UPS. The instructions and graphics on the front of this document and the instructions require that the battery wire be disconnected before shipping.
- Pack the Back-UPS in its original packaging. If the original packaging is not available, contact APC Technical Support to obtain a new set. Pack the Back-UPS in its original packaging.
- Never use styrofoam beads for packaging. Damage sustained during shipping is not covered by warranty (insuring the package for full value is recommended).
- Write the RMA number on the outside of the package.
- Return the Back-UPS to APC by insured, prepaid carrier. APC will pay for the shipping to APC Technical Support.

## Specifications

Input Voltage (on line)	98 - 132 Vac	
Frequency Limits (on line)	47 - 63 Hz (autosensing)	
On Battery Waveshape	Stepped Sine Wave	
Maximum Load	350 VA - 210 W	500 VA - 300 W
Typical Recharge Time	8 Hours	
Operating Temperature	32° to 104°F (0° to 40°C)	
Storage Temperature	23° to 113°F (-5° to 45°C)	
Operating and Storage Relative Humidity	0 to 95% non-condensing	
Size (H x W x D)	6.5 x 3.6 x 11.2 inches (16.5 x 9.2 x 28.5 cm)	
Weight	350 VA - 12.5 lb (5.7 kg)	500 VA - 13.8 lb (6.3 kg)
Shipping Weight	350 VA - 14.0 lb (6.4 kg)	500 VA - 15.3 lb (7.0 kg)
EMI Classification	FCC/DOC Class B Certified	
On Battery Run-Time	20 Minutes typical - desktop computer and 15 inch (38.1 cm) monitor.	

## Warranty

The standard warranty is two (2) years from the date of purchase of the original unit with a factory reconditioned unit. Customer must assign asset tags and set depreciation schedules must be approved by APC Technical Support representative. APC will ship the replacement unit received by the repair department, or cross ship upon the customer pays for shipping the unit to APC. APC pays for the replacement to the customer.

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