



APC's quality system is certified by ISO 9002 standards



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**APC**  
Legendary Reliability®



# APC



 **APC AV**  
ENGINEERED POWER SOLUTIONS™



## Proven Expertise. Proven Reliability.

From corporate data centers to home offices, APC is regarded as an innovator, designer, and manufacturer of high quality availability solutions. With a proven reputation for Legendary Reliability<sup>®</sup>, leading companies depend on APC every day to protect and support many of the most critical networks in the world, including those at Microsoft, Toyota Motor Sales, Inc., and IBM.

Over the last 20 years, APC has been a pioneer in the development of new power protection technologies, resulting in countless industry awards, design patents and an installed base numbering in the tens of millions of units. Multiple R&D centers, along with APC-owned and controlled factories, have helped ensure that APC solutions are among the safest, most advanced, and reliable available. When you buy APC, you buy "peace of mind".





## Depend on APC AV for Pure Uninterrupted Power.

You've invested a lot of time, effort, and money to build the best high-performance system possible. You expect and demand the most realistic cinematic performances your home theater technology can provide. But, in the span of a single movie frame, your entire investment can be lost due to bad power. Every day, power fluctuations, noise, and outages can make it impossible for your system to perform to its maximum capability. Volatile memory settings, DVR recordings, and media server data can be lost (sometimes permanently) when the power goes out. Costly projector bulbs can also be damaged by blackouts.

From the world's power experts comes the home AV power protection unit that eliminates all these power threats. Complete protection means peace of mind. And peace of mind means complete relaxation and enjoyment.

Introducing...









**APC**<sup>®</sup>  
Legendary Reliability<sup>®</sup>

## Your High-Performance AV Experience Begins (and Ends) with Power.

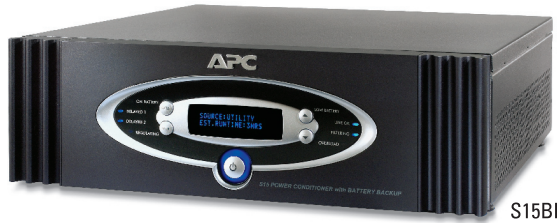
Signals and storage are both dependent on electricity.

**The quality and availability of power for high-end AV systems is just as relevant and important as it is for any computer system or network.** Poor power can have a noticeable impact on sound and video quality. Component power supplies and electrical circuits can be stressed or even destroyed outright. Power outages can result in the loss of system presets and in missed DVR recordings. The presence of hard drives and network connectivity makes AV systems even more susceptible to damage or lowered performance as the result of power disturbances. Blackouts can make home security and automation systems inoperable. The ability to conduct basic household functions and chores can be lost simply because of changing power conditions, often that have nothing to do with your system.

There are several types of power anomalies that can negatively affect your audio/video experience:						
<b>Power Anomaly:</b>	<b>▶ SURGE</b> Short-term increase in voltage levels 	<b>▶ SPIKE</b> Dramatic and instantaneous increase in voltage 	<b>▶ NOISE INTERFERENCE</b> Electromagnetic and radio frequency interference (EMI/RFI) 	<b>▶ BROWNOUT/OVER-VOLTAGE</b> Sustained low or high RMS voltage levels 	<b>▶ BLACKOUT</b> RMS voltage goes to "0" 	<b>▶ VOLTAGE DISTORTION</b> RMS voltage waveform is distorted 
<b>Typical Cause of Disturbance:</b>	Start/stop of household appliances (washing machine, AC, etc)	Lightning	Generated by appliances, HAM radios, nearby radio stations and even AV equipment itself	Too much demand on electric utility; running of larger household appliances	Overloaded utility network; storm activity; downed power lines; animal infestation	Powering household appliances and power tools
<b>Effect on Audio Quality:</b>	N/A	None	If severe enough, can cause an audible hum or buzzing sound	Limits dynamic range of sound produced by the amplifier; not enough current is available during peak periods	N/A	Possibly degrades sound quality
<b>Effect on Video Quality:</b>	N/A	None	Visible lines of distortion ("hum bar" distortion) possible	Creates visible lines of distortion	Damages or reduces lifespan of projector bulbs	May result in visible lines of distortion
<b>Effect on Components:</b>	Stresses power supplies and/or causes premature failure	Catastrophic failure	N/A	Stresses power supplies by forcing larger current draws; may result in premature failure due to increased stress	Entertainment becomes unavailable or is interrupted; DVR recordings are lost or missed; pre-sets are lost; hard drives may be damaged or data lost; security and home automation systems become inoperable	Stresses power supplies
<b>APC Solutions:</b>	S Type, H Type, C Type	S Type, H Type, C Type	S Type, H Type, C Type	S Type, H Type	S Type	S Type



C10



S15BLK



H10

## APC AV Means Legendary Reliability® for Home Entertainment

The world's most trusted provider of availability solutions brings our reputation and history of innovation to your audio/video electronics. When you want to ensure the best experience, look to APC AV.

**S Type Power Conditioners with Battery Backup** – offer surge protection, isolated noise filtering, voltage regulation and pure sine wave battery backup

**H Type Power Conditioners** – offer surge protection, isolated noise filtering and voltage regulation

**C Type Power Filters** – offer surge protection and isolated noise filtering

### CONVERGENCE MAKES BATTERY BACKUP POWER ESSENTIAL

The S Type's Uninterruptible Power Supply (UPS) feature prevents interruptions and lost presets, DVR recordings, and media server data.

In the event of a power outage, an extremely deep power sag or over-voltage, the S Type Power Conditioner with Battery Backup will instantaneously provide pure sine wave power from its internal batteries to keep your entire system up and running without any interruption. With APC AV, you'll never have to worry about your DVR missing a recording, losing system presets or being able to finish a movie, game, or pay-per-view event. Home security and automation systems will remain operational no matter what happens to the power.

The S15 model allows you to add additional battery packs (SBATT) to get the runtime you desire. Even at full load capacity, it is possible to have well over an hour of runtime available when the power goes out.

Other competitive home UPS manufacturers try to cut costs by designing units that output "step" or "square" wave power when operating on battery. This type of waveform, while ideal for switched mode computer power supplies, is not optimal for video sources. APC designed for performance by building an inverter that outputs a pure sine wave when on battery, ensuring the purest power possible for all your components.

*Add extra batteries to get whatever runtime you desire. Pictured here is an S15 with two extra SBATT battery packs connected.*







## Conditioned. Protected. Uninterrupted.

Built to Handle Multiple Types of Power Disturbances

**Complete Power Conditioning = Surge Protection + Filtering + Voltage Regulation.** Many competitive brands like to call their surge protectors “power conditioners”. Surge protectors and even voltage regulators do not offer complete power conditioning. A surge protector does not address the most common power disturbance: voltage fluctuations (a.k.a. brownouts and over-voltages). Conversely, a voltage regulator typically does not offer much in the way of surge protection or noise filtering. **APC AV’s S and H Types offer complete power conditioning.**

**A Reliable and Pure Power Foundation = Power Conditioning with Battery Backup.** Anything less puts your home AV experience and investment at risk. APC AV’s S Type Power Conditioner with Battery Backup offer an all-in-one solution that eliminates all power threats to your high-performance entertainment system. By eliminating surges, spikes, brownouts, over-voltages, EMI/RFI interference, and blackouts, APC offers the secure power foundation that protects your investment and enables your system to perform to its peak capabilities.



### Voltage Regulation Can Improve Sound and Video

**Prevents the Most Common Power Disturbance from Impacting Video Quality and Stressing Component Power Supplies**

APC’s Automatic Voltage Regulation (AVR) corrects brownouts (low AC voltage) and over-voltages to keep the RMS voltage within proper operating ranges for your components’ power supplies. This helps your system perform to its maximum capability.

Ideal for those who live in chronic brownout conditions, APC AV’s units can operate indefinitely in AVR mode without overheating or causing undue stress to the unit. With APC’s Automatic Voltage Regulation, your high-performance system will no longer be a slave to fluctuating voltages. Both the H and S Type offer Automatic Voltage Regulation

## Surge-Protected Outlets Protect Your Components

### Proactively Protects Your Investment and Eliminates Potential Insurance Claim Hassles

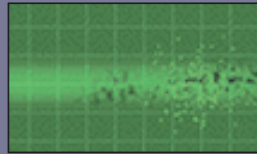
Surge-protected outlets provide guaranteed protection against surges, spikes, and even lightning. Tested to the toughest standards of UL1449 and IEEE, APC AV offers very low Let-Through Voltage ratings, ensuring the best level of protection.

Surges and spikes come in many different forms (different amplitudes, different durations). Unlike other surge protectors and power conditioners, APC AV employs a multi-stage strategy that is more than capable of reducing any surge or spike to harmless levels, regardless of amplitude or duration.

## Isolated EMI/RFI Noise Filter Banks Maximize Sound and Video Quality

### Allows Your System to Perform to Its Maximum Capabilities

APC AV's S, H and C Type all virtually eliminate any electromagnetic and radio frequency interference that may exist on the AC power circuit. There is a specific filter circuit for Digital, Analog, Video, and High Current components. Both the input and output AC are filtered.



*Filters EMI/RFI noise to help ensure best sound and video quality.*

Each filter bank is physically and electrically isolated to prevent noise generated by the components themselves from polluting other connected components. Unlike many competitive brands, our High Current filter allows for protection of high-powered amplifiers and subwoofers without compromising their ability to draw high currents during periods of peak sound output. Plugging the amplifier into a separate and unprotected wall outlet is not necessary with APC AV. In buildings where electrical noise is negatively impacting sound and video quality, APC AV can make a noticeable improvement in performance.

## THE LOWER THE LET-THROUGH, THE BETTER

APC engineering subjects its designs to 6,000V spikes of varying current levels to simulate worst case, real world scenarios that could be found at a building duplex outlet. We then measure how much of the spike gets through to the outlet and to any connected equipment. This measurement is referred to as the Let-Through Voltage Rating by the Institute of Electronics and Electrical Engineers (IEEE). According to UL's 1449 standard, a Let-Through rating of "<330V" is considered good. APC AV's S Type Power Conditioner with Battery Backup has a Let-Through Voltage rating of "<40V". Simply put, the lower the number, the better the performance.

According to the IEEE, Let-Through Voltage Rating is the best indicator of surge protection performance. What matters in the end is how much of a surge or spike actually reaches your valuable equipment. Let-Through is a direct measurement of this. Other companies promote Joule ratings as an indicator of surge performance. A Joule rating only communicates how much energy is required to break down the surge protector, but has absolutely nothing to do with how effective the protector is in preventing surges and spikes from reaching your equipment. With APC, protection is guaranteed for life.



S15 model shown



## COAX, Phone, and Ethernet Protection Jacks Prevent Damage from Surges Traveling Over Data Lines

### Protect Your System's "Back Door"



S15 model shown

It is very common for surges and spikes to enter a system over COAX, phone, or Ethernet lines. APC AV's low insertion loss protection jacks offer you the protection and flexibility you need. Gold COAX jacks are included to protect CATV, satellite and/or antenna lines (number varies by model). The S15 and H15 include a low insertion loss splitter to facilitate splitting a COAX line to both a CATV box and a cable modem for those who have Broadband service provided by their cable TV provider.

For any component that is connected to a home computer network, the S15 and C10 offer Ethernet protection jacks. Finally, if you have a DVR, set-top box, or DSL modem connected to a standard analog phone line, protection is available through the unit's 2-line, 4-wire phone protection jacks. (Note: S10 and C10 have single line protection only)

## DC Trigger Enables Remote Sequenced Turn On/Off of the 3 Delayed Outlets

### Components "Follow the Leader" in Power On/Off

Many high-performance AV components use a DC voltage trigger to automatically control turning on and off other components. The S Type, H Type and the C Type model C10 all have a built-in DC trigger that controls power to the three delayed outlets as well as acts as a pass-through for another device downstream.



## Display Panel and LED Indicators Provide Advanced Monitoring and Configuration

### Know Your Power Situation at a Glance...Customize To Your Environment

All of APC AV's models provide proactive notification of changing power and unit conditions. LEDs and displays can be dimmed to suit a user's particular tastes. Both the H and S Types allow for further setting adjustments including transfer voltage points, outlet turn on delays and more.



Model S15BLK shown



## Delayed Outlets Prevent Stressing Speakers and Help Manage Current Draw on Startup

### APC AV Helps You Power 'ON' Safely and Easily

If the system is powered "on" out of sequence, an audible "pop" will be heard through the speakers, which is believed to cause unnecessary "wear and tear". By turning on the pre-amp and amplifier (or receiver) in the correct sequence (with the right delay), this stress can be avoided. APC AV's S Type, H Type and the C Type's C10 model provide this "sequenced turn on" functionality. Delays can be set by the user via the front panel display.

If the branch circuit is heavily loaded, proper sequencing can also avoid tripping your circuit breaker. Both the S Type, H Type and the C Type's C10 model are designed so that these in-rush start-up currents do not overload, or cause damage to, the unit.

### Rack- or wall-mountable

#### APC AV is easy to install

Hardware is included for the S and H types to rackmount the unit into any standard 19" rack. No custom shelving or mounting hardware is needed. The C Type is designed to be wall-mounted



## Style. Function. Performance.

Designed Specifically for High-Performance AV Environments

**Unique needs require special design.** We know you pay attention to detail when it comes to your home AV setup. APC spent extra time and resources to ensure we provided the right design to complement your audio and video components. That's not to say it's just another pretty faceplate. You get the trusted technology that's earned APC millions of delighted customers worldwide.

APC AV's S Type was engineered to manage its thermal dissipation so efficiently that the ultra-quiet cooling fan should only need to operate during power outages. Audible alarms are set to "off" by default.

LED and display brightness can be independently controlled by the user to suit their particular tastes.

All of these details are critical to creating an all-in-one power protection unit that is well suited for high-performance home AV systems.

# General Product Specifications

Models <sup>1</sup>	C5/C5BLK	C10/C10BLK	H10/H10BLK
<b>INPUT</b>			
Nominal Voltage	120 Vac	120 Vac	120Vac
Rated Input Current	15A	15A	12A
Input Circuit Breaker Rating	15A	15A	15A
<b>OUTPUT</b>			
Number of Outlets (all outlets are surge protected, conditioned, regulated and backed up by battery power)	10	12	12
Output Voltage Range while in Voltage Regulation mode (with factory default settings)	N/A	N/A	120V ± 7%
Outlet Type	NEMA 5–15R (tested to UL498)	NEMA 5–15R (tested to UL498)	NEMA 5–15R (tested to UL498)
Rated VA Capacity	N/A	N/A	1000VA
Rated Watt Capacity (continuous)	N/A	N/A	1000W
Rated Output Current	12A	12A	12A
<b>BATTERY BACKUP</b>			
Output Voltage Range while on battery	N/A	N/A	N/A
Transfer Time to Battery During Blackout	N/A	N/A	N/A
Battery Quantity/Type	N/A	N/A	N/A
Typical Recharge Time to 90% Capacity	N/A	N/A	N/A
Battery Service	N/A	N/A	N/A
Battery Life <sup>2</sup>	N/A	N/A	N/A
Battery Runtime <sup>3</sup> with Internal batteries only	N/A	N/A	N/A
with Internal batteries and 1 SBATT	N/A	N/A	N/A
with Internal batteries and 2 SBATT	N/A	N/A	N/A
<b>SURGE PROTECTION</b>			
Let-Through Voltage Rating <sup>4</sup>	<40V	<40V	<40V
<b>DATA LINE PROTECTION JACKS</b>			
COAX	2 pair	3 pair	2 pair
Ethernet	N/A	1 pair 10/100bT	N/A
Telephone/DSL	1 line, 2 wire	1 line, 2 wire	Same
<b>PHYSICAL</b>			
DC Trigger	None	One 3.5mm mini-jack, 5-30V	Two 3.5mm mini-jack plugs (5–30V)
Unit Dimensions	499 × 132.6 × 53.1 mm	576.6 × 165.1 × 55.3 mm	17"W × 3.74"H × 9.5"D
Unit Housing Construction	Aluminum/plastic	Aluminum	Aluminum/sheet metal
Unit Weight	2650 gms	3450 gms	16.1 lbs
<b>CONFORMANCE</b>			
Safety Agency Approvals	UL, cUL, NOM, UL1449, UL1363, UL498, UL497A, FCC Part 15 Class B, FCC Part 68	UL, cUL, NOM, UL1449, UL1363, UL498, UL497A, FCC Part 15 Class B, FCC Part 68	UL, CSA, NOM, UL1012, UL1449, UL498, UL 497A, CSA C22.2, FCC Part 15 Class B, FCC Part 68
<b>WARRANTY</b>			
Lifetime Equipment Protection Policy <sup>5</sup>	\$350,000	\$350,000	\$500,000
Product Warranty	Lifetime	Lifetime	5 years

<sup>1</sup> "BLK" indicates a black-colored model while no "BLK" denotes a silver-colored model.

<sup>2</sup> Depends on use and environment temperature.

<sup>3</sup> Actual runtimes are determined by load, battery charge level, battery health and quantity of batteries installed.

<sup>4</sup> Let-Through Voltage Rating using a 6kV Category A ringwave (NM) per the ANSI C62.41 spec.

<sup>5</sup> See user manual for details.



US LISTED 42C2



LR63938



H15/H15BLK	S10/S10BLK	S15/S15BLK	SBATT
120Vac	120Vac	120Vac	48Vdc
12A	12A	12A	N/A
15A	15A	15A	N/A
12	12	12	N/A
120V ± 7%	120V ± 7%	120V ± 7%	N/A
NEMA 5–15R (tested to UL498)	NEMA 5–15R (tested to UL498)	NEMA 5–15R (tested to UL498)	N/A
1440VA	1000VA	1440VA	N/A
1440W	685W	900W	N/A
12A	9A	12A	N/A
N/A	120V ± 5%	120V ± 5%	N/A
N/A	7ms typical, 10ms maximum	7ms typical, 10ms maximum	N/A
N/A	4 12V 9aH sealed lead-acid maintenance free	4 12V 9aH sealed lead-acid maintenance free	8 12V 9aH sealed lead-acid maintenance free
N/A	<8 hrs	<8 hrs	N/A
N/A	User-replaceable, hot-swappable	User-replaceable, hot-swappable	Hot-swappable
N/A	2 – 5 years	2 – 5 years	2 – 5 years
with Internal batteries only: with Internal batteries and 1 SBATT: with Internal batteries and 2 SBATT:	Full load: 20 minutes / Half load: 40 minutes N/A ( <i>S10 does not accept extra batteries</i> ) N/A	Full load: 11 minutes / Half load: 24 minutes Full load: 38 minutes / Half load: 75 minutes Full load: 70 minutes / Half load: 140 minutes	N/A N/A N/A
<40V	<40V	<40V	N/A
2 pair + splitter	3 pair	3 pair + splitter	N/A
N/A	None	1 pair 10/100bT	N/A
1 line, 2 wire with splitter	1 line, 2 wire	2 line, 4 wire with splitter	N/A
Two 3.5mm mini-jack plugs (5–30V)	Two 3.5mm mini-jack plugs (5–30V)	Two 3.5mm mini-jack plugs (5–30V)	N/A
17"W × 3.74"H × 9.5"D	17"W × 5.125"H × 18.55"D	17"W × 5.125"H × 18.55"D	17"W × 3.5"H × 18.55"D
Aluminum/sheet metal	Aluminum/sheet metal	Aluminum/sheet metal	Aluminum/sheet metal
16.7 lbs	55 lbs / 25 Kgs	57.2 lbs / 26 Kgs	62.83 lbs / 29 Kgs
UL, CSA, NOM, UL1012, UL1449, UL498, UL 497A, CSA C22.2, FCC Part 15 Class B, FCC Part 68	UL, CSA, NOM, UL1778, UL498, UL497A, CSA 107.3, FCC Part 15 Class B, FCC Part 68	UL, CSA, NOM, UL1778, UL498, UL497A, CSA 107.3, FCC Part 15 Class B, FCC Part 68	N/A
\$750,000	Unlimited	Unlimited	N/A
5 years	2 Years (includes batteries)	2 Years (includes batteries)	2 Years (includes batteries)

## APC AV Interconnects: Plug in to performance

Engineered and constructed to keep AV signals clean and pure, our AV cables enable your equipment to provide the best sound and video quality possible. To ensure the highest level of quality, APC AV Interconnects are tested to strict specifications. Their design, materials, and construction techniques all serve to shield AV signals from electrical noise interference while providing the highest level of conductivity possible. APC offers a full assortment of analog and digital interconnects, including DVI and HDMI, as well as power cords. Depend on APC to protect and enhance your entertainment experience.

	Part Number	Description	Length				
			1M	2M	3M	5M	7M
AUDIO	RCA15	RCA Interconnects (RCAx2)	✓	✓	✓	✓	✓
	DigCoax15	Digital Coaxial Interconnect (RCAx1)	✓	✓	✓	✓	✓
	TOS15	Toslink Interconnects	✓	✓	✓	✓	✓
	Audio15	3.5mm to 3.5mm (iPod)	✓	✓			
	YAudio15	3.5mm splitter (iPod)	✓				
	RCAAudio15	3.5mm to RCA (3.5mm to RCAx2 – iPod)	✓	✓	✓		
VIDEO	SV15	S-Video	✓	✓	✓	✓	✓
	CV15	Component Video (RCAx3)	✓	✓	✓	✓	✓
	DVI15	DVI to DVI	✓	✓	✓	✓	✓
	HDVI15	HDMI to DVI	✓	✓	✓	✓	✓
	HDMI15	HDMI to HDMI	✓	✓	✓	✓	✓



## So Which Model Is Right For You?

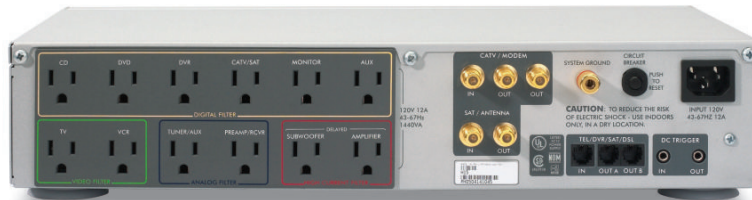
- For basic protection from surges and spikes, and minimized noise interference, choose a C Type Power Filter.
- If you are also concerned about stress placed on your equipment during brownouts and the cycling of large household appliances, an H Type Power Conditioner is the answer. It corrects sustained low or high voltages, plus helps to protect your equipment while maintaining sound and video quality.
- To protect against the many threats of a power outage, choose the S Type Power Conditioner with Battery Backup. The S Type's pure sine wave battery backup power can help eliminate interruptions, missed DVR recordings, damaged hard drives and damaged display bulbs.



Features	C Type	H Type	S Type
Surge Protection	✓	✓	✓
Isolated Noise Filtering	✓	✓	✓
COAX and Phone Protection Jacks	✓	✓	✓
Automatic Voltage Regulation		✓	✓
Ethernet Protection Jacks	✓ (C10)		✓
Battery Backup			✓



C10BLK



H15



S15



## Interested in Selling APC AV Solutions?

visit <http://www.apcav.com> or call **1-888-88-APCAV**

## Ready to Buy?

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or call **1-888-88-APCAV**





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Information Week identifies the most innovative users of IT from U.S. companies with \$1 billion or more in annual revenues. Awarded 2003 for the 4th year in a row.



Every year since 1999, APC has been named to Forbes Platinum 400 list of the Best Big Companies in America.