



Home Theater Power Conditioning



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[®], leading companies depend on APC every day to protect and support many of the most critical networks in the world.

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 clean, stable 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 surges can make it impossible for your system to perform at its best. Low or high voltage can negatively affect video or audio signals and lead to premature component failure. Electromagnetic or Radio Frequency Interference (EMI/RFI) can add noise to your video or audio signal, degrading the audio or video experience.

From the world's power experts comes the home AV power protection unit that eliminates all these power threats. Complete power conditioning means protecting your equipment and leaving you with the peace of mind to enjoy the AV experience you paid for in the first place.

Introducing... 







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. 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.

There are several types of power anomalies that can negatively affect your audio/video experience:

Power Anomaly:	SURGE Short-term increase in RMS voltage levels	SPIKE Dramatic and instantaneous increase in voltage	NOISE INTERFERENCE Electromagnetic and radio frequency interference (EMI/RFI)	BROWNOUT/OVER-VOLTAGE Sustained low or high RMS voltage levels	BLACKOUT RMS voltage goes to "0"	VOLTAGE DISTORTION RMS voltage waveform is distorted
						
Typical Cause of Disturbance:	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
Effect on Audio Quality:	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
Effect on Video Quality:	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
Effect on Components:	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
APC Solution:	C Type, H Type, J Type	C Type, H Type, J Type	C Type, H Type, J Type	H Type, J Type	J Type	J Type



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.

APC AV H Type Power Conditioner. This unit was designed and engineered solely for performance audio/video systems. This new power solution ensures the quality sound and video performance you expect and demand, combining the features you need to get the best AV experience your system can provide. Protect your AV investment and experience with APC AV's H Type Power Conditioner.

APC SKU	SURGE PROTECTION	NOISE FILTERING	VOLTAGE REGULATION	BATTERY BACKUP	CAPACITY
C5	✓	✓			N/A
C10	✓	✓			N/A
H10	✓	✓	✓		1000 VA / 1000 Watts
H15	✓	✓	✓		1500 VA / 1500 Watts
J10	✓	✓	✓	✓	1000 VA / 600 Watts
J15	✓	✓	✓	✓	1500 VA / 865 Watts
Surge Protection	Protects Equipment from Dangerous Surges and Spikes				
Noise Filtering	Reduces EMI / RFI Interference to Improve Sound and Video Quality				
Voltage Regulation	Corrects Low and High Voltages to Prevent Damage to power supplies and Improve your Sound and Video Quality				
Battery Backup	In the event of a blackout, this feature prevents interruptions in your entertainment as well as loss of DVR Recordings / System Presets Finally, this feature Prevents Overheating Which Leads to Projector Bulb / Plasma Screen Damage				



Conditioned. Protected. Regulated.

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 H10 and H15 offer complete power conditioning.

By eliminating surges, spikes, brownouts, over-voltages, and EMI/RFI interference, 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 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.

12 surge-protected outlets protect your components

Proactively protects your investment and eliminates potential insurance claim hassles

Twelve 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 H Type Power Conditioner virtually eliminates 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 sub-woofers 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 H Type Power Conditioner has a let-through voltage rating of "<40V", the lowest rating possible. 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.



COAX and phone protection jacks prevent damage from surges traveling over data lines

Protect Your System's "Back Door"



It is very common for surges and spikes to enter a system over COAX or phone lines. APC AV's low insertion loss protection jacks offer you the protection and flexibility you need. Two pairs of gold COAX jacks are included to protect CATV, satellite, and antenna lines. The H15 also includes a low insertion loss splitter to facilitate splitting a COAX line to make recording one channel while watching another easy.

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 phone protection jacks.

DC trigger enables remote sequenced turn on/off of the 2 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. Both the H10 and H15 have a built-in DC trigger that controls power to the two delayed outlets and acts as a pass-through for another device downstream.



Display panel (H15 only) and LED indicators provide advanced monitoring and configuration

Know your power situation at a glance...customize to your environment

Not only do APC AV's H Type Power Conditioners proactively notify you of changing power and unit conditions, they also allow you to configure them for your particular power and system needs. Either the display screen or the LEDs will tell you incoming line voltage, percent load, whether the unit is boosting/trimming the voltage, and more. Through the display screen, you are able to adjust various settings, including unit sensitivity to power disturbances, outlet turn on delays, and LED/Display brightness.





2 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 H10 and H15 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 H10 and H15 are designed so that these in-rush start-up currents do not overload, or cause damage to, the unit.

Rack-mountable

APC AV is easy to install

Hardware is included to fit any 19" rack.



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 has earned APC millions of delighted customers worldwide.

LED and display brightness can be controlled by the user to suit their particular tastes. These details are critical to creating an all-in-one power conditioner that is well suited for performance home AV systems.

General Product Specifications



Models	H15	H10
INPUT		
Input Voltage Range	92V – 145V	Same
Nominal Voltage	120Vac	Same
Input Frequency	47 Hz – 63 Hz	Same
Rated Input Current	12A	Same
OUTPUT		
Number of Outlets (all outlets are surge protected, conditioned, and voltage regulated)	12	Same
Outlet Type	NEMA 5-15R	Same
Rated VA Capacity	1440VA	1000VA
Rated Watt Capacity (continuous)	1440W	1000W
Rated Output Current	12A	Same
SURGE PROTECTION		
Let-Through Voltage Rating	<40V	Same
DATA LINE PROTECTION JACKS		
COAX	2 pair + splitter	2 pair
Telephone/DSL	1 line, 2 wire with splitter	Same
PHYSICAL		
DC Trigger	Two 3.5mm mini-jack plugs (5-30V)	Same
Unit Dimensions	17"W x 3.74"H x 9.5"D	Same
Unit Weight	16.7 lbs	16.1 lbs
CONFORMANCE		
Safety Agency Approvals	UL1012, FCC Part 68, FCC Part 15 Class B	Same
WARRANTY		
Lifetime Equipment Protection Policy*	\$750,000	\$500,000
Product Warranty	5 years	Same

* Depends on use and environment temperature.





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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.