

The PurePower 1050

Everything Else is Just a Power Strip in a Box.

"I am not aware of any other power line regenerator that has all of the capabilities of the APS 1050. Considering price, performance, technology and style, the Audiophile APS PurePower 1050 Power Conditioner receives my highest recommendation."

HENRY WILKINSON, *AUDIOPHILIA*

"The needles stayed within the bias bubble like they were glued to it. I tried each component connected to a wall outlet, then connected to the PurePower 1050. In every case, the component sounded better when connected to the APS device."

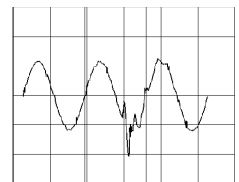
JOHN BEAVERS, *POSITIVE FEEDBACK ONLINE*

"This is some terrific product, the difference in the clarity of the video, especially in hi def, was remarkable. WOW. I hadn't expected that much difference in picture quality."

BARRY RICHARDSON, *HAWAII*

Poor Power In...

When audio engineers designed your audio and home theater components they expected the supplied power to be a relatively pure 60 cycle, 120 volt sine wave with steady voltage. But in today's electrical grid environment there are literally thousands of non linear loads such as solid state motor controls, air conditioners and computer switching power supplies plus a myriad of other disturbance inducing devices from fluorescent lights and dimmers to utility switchgear. The result is severely distorted waveforms, sags, notches, EMI, RFI, harmonic voltage and current distortion, line noise, transients, surges, brownouts and blackouts, all conveniently delivered to your home wiring. If your power is as bad as that in many wall outlets, your components, and your sound quality are not safe.



...Pure Power Out

At PurePower Partners, we believe that the sounds and images that come from your system should be the ones that were introduced intentionally—not those that arrived unintentionally through your house wiring. We also believe the music shouldn't suddenly stop or the screen flicker and dim or a recording operation fail when the utility power has a momentary sag or a short outage.



REFERENCE GRADE AC REGENERATOR WITH BATTERY BACK UP

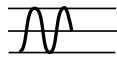
AC Regeneration for Audio & Home Theatre

THE 10 POWER GREMLINS

There are at least 10 distinct types of power problems or “power gremlins” that can negatively affect your electronic equipment. Effects range from audible noise or hum in your components, loss of dynamic range, reduced quality of sound or video, video artifacts, slow burnout of components, loss of presets, complete loss of sound or picture, ruined recordings, burned out video projector bulbs, speaker damage, all the way to the complete destruction of electronic circuits leaving nothing but smoke and charred ruins.

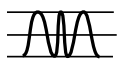
Many audio power conditioning products have addressed either a single problem (such as surge arrestors) or only a few of the problems. These products are designed to reduce the effects of one or more of the gremlins, but until now none have offered a fully effective solution to the full range of power problems.

PurePower™ APS AC regeneration is the ONLY technology that provides one perfect solution to eliminate all 10 Power Gremlins.



1. Blackout

A total loss of utility power



2. Frequency variation

A change in frequency stability



3. Transient

Instantaneous high voltage increase in the range of nanoseconds



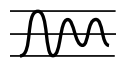
4. Harmonics

Distortion of the normal waveform, generally transmitted by non-linear loads



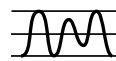
5. Over Voltage

Increased line voltage for extended periods of a few minutes to a few days



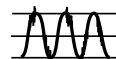
6. Brownout

Reduced line voltage for extended periods of a few minutes to a few days



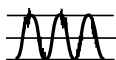
7. Sag

Short term low voltage



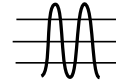
8. ElectroMagnetic Interference (EMI)

Unintended electrical or electromagnetic radiation resulting in noise interference



9. Radio Frequency Interference (RFI)

Coherent electromagnetic radiation between 30Khz and 300 Giga Hz referred to as noise



10. Surge

Short term high voltage

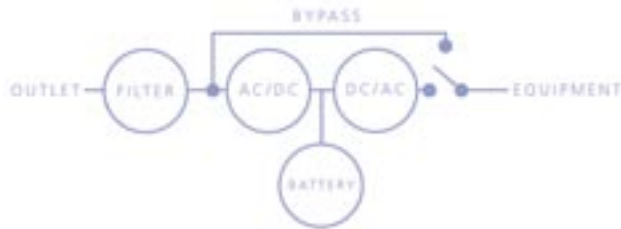
The Power Conditioning Matrix is intended to simplify the matching of power “Gremlin” types with the technologies that ameliorate or remove them. If you know what kind of gremlins are present in your AC supply you can read down the chart and choose a technology that will solve the problem. If you are unsure, be safe and opt for a total solution. Some technologies we have identified as “limited” because they offer less than complete effectiveness or their effectiveness varies depending of the severity of the problem and the specific situation. Solid squares represent complete solutions.

TECHNOLOGY	BLACKOUT	FREQ.VAR.	TRANSIENT	HARMONICS	OV	BROWNOUT	SAG	EMI	RFI	SURGE
Surge Arrestors <i>Surgemaster*</i>										■
Noise filters <i>Monster HTS5000*</i>								■	■	■
Choke / Inductor <i>RGPC 1200*</i>							LIMITED	■	■	■
Voltage regulation <i>Furhman AR15*</i>					LIMITED	LIMITED	LIMITED	■	■	■
Computer UPS <i>APC S10*</i>	■				LIMITED	LIMITED	LIMITED	■	■	■
Wave Correction <i>Exact Power 15A*</i>				■	LIMITED	LIMITED	LIMITED	■	■	■
Re-generation <i>PS Audio P1000*</i>		■	■	■	LIMITED	LIMITED	LIMITED	■	■	■
PurePower™ APS	■	■	■	■	■	■	■	■	■	■

* typical examples

THE TECHNOLOGY BEHIND THE APS

The PurePower Audio/Video Power Supply (APS) quietly generates a new, clean, 120 volt 60 cycle sine wave right beside your audio or home theatre system, so there is no opportunity for outside influences to introduce unwanted waveform distortions.



The utility supply from the wall outlet is converted to direct current. This DC is then used to regenerate a new clean AC source in the APS's sine wave generator. A battery, integrated with the DC side ensures that no matter what happens to the utility power supply, there will be full current and voltage at the rated value to keep the components connected to an ideal power supply.



120 volt model with 8 Hubbell NEMA 5-15 Receptacles.

This AC/DC/AC technology provides a perfect barrier to problems that might exist in the utility line. No distortions can pass through the DC intermediate stage. No spikes, no high voltage transients, no damaging surges can reach your component's power supplies. The Pure Power APS maintains the accuracy of its 120 volt sine wave no matter how low or high the voltage of the utility supply, so the amplifier never suffers current limits, or has to be shut down for "protection".

SUPERIOR SYSTEM SURGE PROTECTION

PurePower units feature four sets of surge protection connectors to keep surges and spikes from attacking your system through the "back door" via cables of telephone, network, cable tv and satellite. There's no point in keeping surges and spikes out of your AC power lines if they get in to your AV system through other connections.

Unlike most surge protection devices that leave you unprotected from a second surge after their "one shot" action, PurePower incorporates the latest advanced silicon avalanche diodes that reset themselves ready for the next attack.



International model with 4 Shuko outlets, many others available.

BENEFITS OF THE PUREPOWER APS

- Dramatically improves audio and video performance
- Helps all components meet their design specs
- Improves amplifier performance without limiting power
- Protects DLP bulbs from power outage burnout
- 3:1 crest factor delivers peak instantaneous watts of 1500, 2100 and 3150 watts respectively
- True regenerated AC power
- Pure sine wave
- Totally isolates your system from all 10 power gremlins
- Powerful integrated battery system allows continued listening, viewing or recording during power blackouts
- Complete protection from spike and surge damage
- Makes system impervious to sags, overvoltage and brownouts
- 2 year warranty
- Available in silver or black finish, shelf or rack mountable
- CATV, Satellite, Telephone and Ethernet Surge Isolation

WHO'S THE MOST POWERFUL OF ALL?

Comparisons of output power between competing power conditioning products can be confusing - largely because output in watts varies with an electrical effect called power factor. This chart is intended to clarify the comparison by stating the hypothetical output in terms of different load types. We have included the leading products in the category and compared RMS, peak, overload ability and ability to continue to supply power in a short duration blackout.

Competitive Comparison: PurePower 1050 vs EP15A and PS1000			
Output Power Comparison	PurePower 1050	ExactPower EP15A	PS Audio P1000
Continuous Resistive Output for a resistive load such as a light bulb	1500W	1300W	840W
Continuous Non-linear output for a non linear load such as a power amplifier	1275W	1100W	714W
Continuous Switched Mode Output for a switched mode power supply such as a typical source component	1050W	910W	588W
Maximum output (short term)	2250W/30 sec	1650W/50 msec	1000W
Peak Power (amps)	37.5	23	10
Reserve Power (watts)	1500W 8 minutes	1500W 50 milliseconds	0
Price (MSRP)	\$2495	\$2495	\$3495

PurePower APS Technical Specifications

Electrical Input

Nominal Voltage	120 VAC
Voltage Range	80-144 VAC
Frequency	50 / 60 Hz Auto-sensing
Frequency range	45-65 Hz
Input Connection	IEC 320 Input Receptacle

Electrical Output

Output Voltage	120 VAC
Voltage Regulation	±3% of nominal
Frequency Regulation	±3 Hz
Efficiency	89-92% depending on load
Output receptacles	8 5-15R Hubbell (Model 1050)

Physical Characteristics

Form Factor	freestanding or rack mountable
Dimensions (HxWxD)	3.5 x 17 x 19.4 in. (89 x 432 x 494 mm)

Environmental and Safety

Safety Markings	UL and CSA
EMC monitors	FCC Class B and VCCI Class II
Surge Supression	IEEE / ANSI C62.41 Category B (formerly 587)
Ambient Operating Temp.	32 - 90 F (0 - 32 C)
Audible noise	<17 dBA
Relative humidity	0 to 90% non-condensing

Additional Features

Automatic Bypass	Automatic bypass on overload or APS failure
Diagnostics	Full system self-test on power up

Additional Power Packs

Dimensions (HxWxD)	3.5 x 17 x 19.4 in. (89 x 432 x 494 mm)
Weight	65 lb. / 28.5 kg

Surge Protection

	Connector	Voltage	Let through	Bandwidth
Coax:	Type F (2)	30	45	2 GHz
Telephone:	RJ11 4 wire	190	<298	na
Network:	RJ45	5	10	155MHz

Model Specific Specifications

Model	Rating (Watts/VA)	Weight (lb./kg)	Extra Battery
APS 500	490 / 700	34 / 15	APS EBM 24
APS 700	700 / 1000	34 / 15	APS EBM 24
APS 1050	1050 / 1500	60 / 27	APS EBM 36*

*Factory upgrade required if not ordered with 1050.

Options

All PurePower models are supplied with rack mount hardware. They feature 6 or 8 Hubbell 5-15 AC output receptacles and IEC 320 input receptacle. Extended battery modules (EBM) are available to extend operating time in a blackout from 20 minutes to several hours.

Warranty

All APS models carry a full 2 year limited warranty.



Dual 1050 Rack Mount Installation in Black Finish

www.PurePowerAPS.com

PUREPOWER APS

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