

# AP6040 Power Amplifier



- Stereo/Mono Mode Switchable
- 2 x 2000 W @ 4 Ohms
- Advanced Protection Circuitry, Soft Turn-On
- Defeatable Limiter, High Pass Filter
- Ultra Quiet Internal Cooling Fans & Filters
- XLR and 1/4" TRS Input Connectors
- Speakon™ and Binding Post Output Connectors
- Computer Designed & Tested

The AP6040 power amplifier draws on Yorkville's 35 years of music industry expertise and experience. Their design includes the features most demanded by audio professionals in a package that is functional, rugged, compact and reasonably priced.

This new Audiopro amplifier delivers 2000 Watts per channel at 4 Ohms. The two tier power conversion approaches efficiency levels normally associated with switching power technology but provides the superior transient response and low distortion of the best analog designs. The internal signal path has been optimized and a toroidal transformer is used – both of which serve to reduce hum and noise while keeping weight to a minimum.

The amplifier designs, while unique, are conservative with regard to the power handling capabilities of the output devices. To further assure trouble-free operation all AP amps undergo a thorough computer monitored, temperature cycled, burn-in period to test for any deviation from design parameters.

Controls are well thought out and include rear mounted, switches for ground lift, limiter, high pass filter (40 Hz, 12 dB/octave) and stereo/mono modes. The front panel has clip, activity, power and protection LED indicators and large volume controls – all recessed for safety and resistance to damage.

The amplifiers feature advanced protection mechanisms including DC, load, thermal and breaker protection as well as a user-defeatable peak limiter which is transparent below clipping levels. A 'soft turn-on' circuit eliminates damage to attached components and prevents nuisance breaker-tripping.

The computer-optimized front-to-back heat dissipation system incorporates two ultra quiet, variable speed internal fans and is designed to ensure that excessive thermal stress will not occur. For ease of maintenance and to ensure efficient cooling, the units are supplied with long-life, faceplate-mounted, easily cleaned, air intake filters.

Connectivity with existing equipment is excellent. Input is via two 1/4" TRS or two XLR jacks while output is via binding posts or two Speakon™ SP-4. Sturdy all-steel construction with a baked-on, black finish is used throughout and for ease of integration the amplifiers feature reinforced mounting ears and a compact three rack space design.

Yorkville's famous two year, no-fault transferable warranty\* covers these amps. If anything goes wrong within two years, we'll fix it for free... even if you break it! \* Warranty valid in USA and Canada Only

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# AP6040 Power Amplifier

<b>Continuous Average Power:</b>	(both channels driven - 0.1% THD, 1kHz)
Watts @ 8 Ohms:	1250 (x2)
Watts @ 4 Ohms:	2000 (x2)
Watts @ 2 Ohms:	NA
<b>Burst Average Power:</b>	(both channels driven - 0.1% THD, 1kHz)
Watts @ 8 Ohms:	2000 (x2)
Watts @ 4 Ohms:	3625 (x2)
Watts @ 2 Ohms:	NA
<b>Frequency Response (+/- 1 dB):</b>	20 Hz - 20 kHz
<b>Hum &amp; Noise (unweighted):</b>	-103 dB
<b>THD (1 kHz, 4 Ohms):</b>	< 0.01%
<b>THD (20-20 kHz, 4 Ohms):</b>	< 0.1%
<b>Slew Rate (V/uS):</b>	50
<b>Damping Factor (20-400 Hz @ 8 Ohms):</b>	> 600
<b>Crosstalk (1 kHz / 20-20 kHz):</b>	-75 dB / -60 dB
<b>Input Impedance (Bal/Unbal):</b>	20 kOhms/10 kOhms
<b>Input Sensitivity (VRMS Sine):</b>	1.4 V (41 dB gain)
<b>CMRR @ 60Hz (Min/Typ):</b>	48 dB/56 dB
<b>Max Voltage Gain:</b>	41 dB
<b>Stereo / Mono Modes:</b>	User selectable via switch
<b>Max. Output Current (Repetitive/Cont.):</b>	100A / 50A
<b>Power Consumption (Typ/Max):</b>	1800W / 3000W
<b>Transformer:</b>	Toroidal
<b>Protection:</b>	DC, Load, Thermal User defeatable peak limiter High pass filter (40 Hz, 12 dB/octave)
<b>Cooling:</b>	Two variable speed DC fans (front to back path)
<b>Filters:</b>	Two faceplate mounted, easily cleaned replaceable elements
<b>Input Connectors:</b>	XLR (x2) and 1/4" Phone (TRS) (x2)
<b>Output Connectors:</b>	Binding Post (x2) and Speakon™ SP-4 (x2)
<b>Rack Spaces:</b>	Three
<b>Finish:</b>	Baked-On, Black Painted Steel
<b>Dimensions:</b>	17.8 x 19 x 5.25 inches
<b>(W x D x H):</b>	45.2 x 48.2 x 13.3 cm
<b>Weight:</b>	60.0 lbs (27.1kg)

