

EPX2000/EPX3000

Power Amps

EPX3000: 2 x 1500 Watts into 2 Ohms; 2 x 900 Watts into 4 Ohms; 3000 Watts into 4 Ohms (bridge mode)

EPX2000: 2 x 1000 Watts into 2 Ohms; 2 x 650 Watts into 4 Ohms; 2000 Watts into 4 Ohms (bridge mode)

ATR (Accelerated Transient Response) technology for ultimate punch and clarity

Ultra-light, ultra-low noise and ultra-efficient switch-mode power supply for noise-free audio, superior transient response and low power consumption

Switchable limiters offer maximum output level with reliable overload protection

Detented gain controls for precise setting and matching of sensitivity

Precise Power, Signal and Clip LEDs to monitor performance

XLR, 1/4" TRS and RCA input connectors for compatibility with any source

Professional speaker connectors and "touch-proof" binding posts support most speaker wiring systems

Built-in Subwoofer/Satellite crossover for more flexibility

Independent DC and thermal overload protection on each channel automatically protects amplifier and speakers without shutting down the show

"Back-to-front" ventilation system including air filter for reliable operation

"Built-like-a-tank", impact-resistant, all-steel 2U rackmount chassis

High-quality components and exceptionally rugged construction ensure long life

Conceived and designed by BEHRINGER Germany

behringer.com

Power Amplifiers

EUROPOWER — Professional 3000/2000-Watt Light Weight Stereo Power Amplifiers with ATR (Accelerated Transient Response) Technology



Ultra-light, built on a legacy

Power amps have always been heavy, mainly because of the massive transformers and huge banks of capacitors needed for high-power operation. In fact, six conventional power amps in a rack can easily top 250 pounds. The same number of EPX Series amps come in at just under 134 lbs./61 kg, and they pack all the power of their conventional counterparts!"

In a class of their own

The secret to the EPX series' incredible power-to-weight ratio is their use of a switching-mode power supply combined with Class-H topology. Switching-mode power supplies work on demand. Instead of constantly working at full power

and dissipating excess power as heat, they only ramp up the power output when needed—thousands of times per second. Considerably more efficient than traditional power supplies, switching-mode power supplies are small and light, yet deliver ample power.

Think of a Class H amp as a car with two engines (in amps, you call them "rails"). One engine runs all the time. The other runs only when musical peaks demand extra power output. An EPX Class H amp only generates a fraction more power than is immediately needed while the output stage operates at its maximum efficiency all the time.

Continued on next page



EPX2000/EPX3000

Power Amps

And just like in today's hybrid cars, the efficiency of this dual system is far greater than having one engine or rail that must operate all the time. EPX amps don't waste power. Class H amps don't waste power, require much smaller heat sinks and much lighter power transformers.

Accelerated Transient Response delivers the knock-out punch

It takes huge pulses of energy (current and voltage) to propel a woofer cone out fast enough to match a bass beat. That's called Transient Response and it's the holy grail of amp designers. By carefully selecting transistors with extremely high slew rates and optimizing other proprietary parts of our circuitry, our amps are able to react instantly to even the most demanding electronic bass impulses. If the woofers in your PA system can keep up, your audience will hear a tighter, crisper, more natural sound.

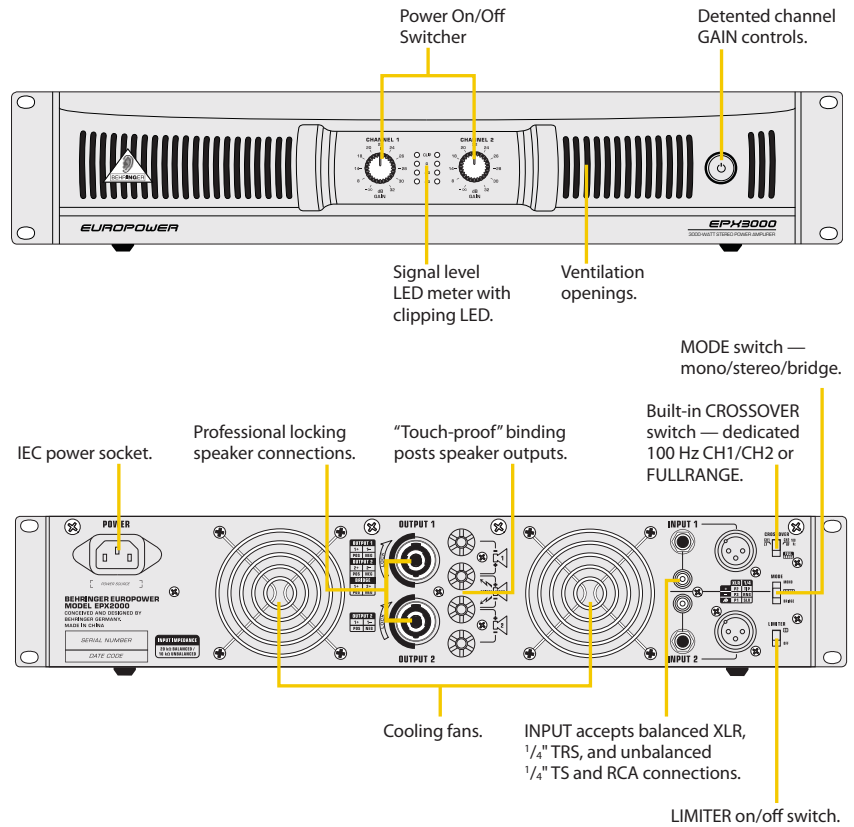
Instead of operating relatively continuously like Class AB circuits, Class H amps, which were first described in NASA technology (U.S. patent 3,319,175), feature rail tracking for effectively modulating the power supply rails with only the peaks of the input signal. This technology has revolutionized pro audio amp designs with its outstanding performance and efficiency. When combined with switching-mode power supplies that replace heavy toroid transformers, our new designs provide more dynamic punch and, because they are so much more efficient, run cooler and don't require huge, heavy heat sinks.

BEHRINGER didn't invent Class H technology, but our R&D Department has been working for years to perfect our own version, creating lightweight amps that run cool and also achieve our goal of Accelerated Transient Response.

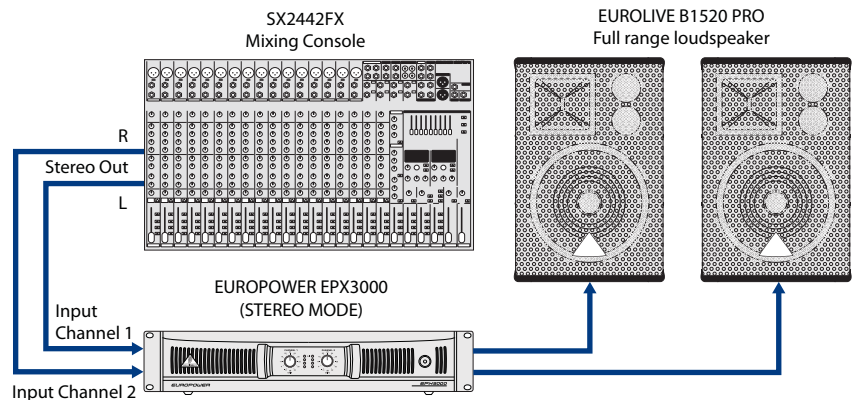
Everything you need, nothing you don't

The simple front panel controls of these amps give you all of your sound's vital signs at a glance. After pressing the Power Button, the POWER LED will light when the amp is ready for action. Both channels have independent gain dials as well as clip LEDs that indicate when the signal is distorted and you need to reduce the gain. There are also SIGNAL LEDs that light up when a signal is present at the input.

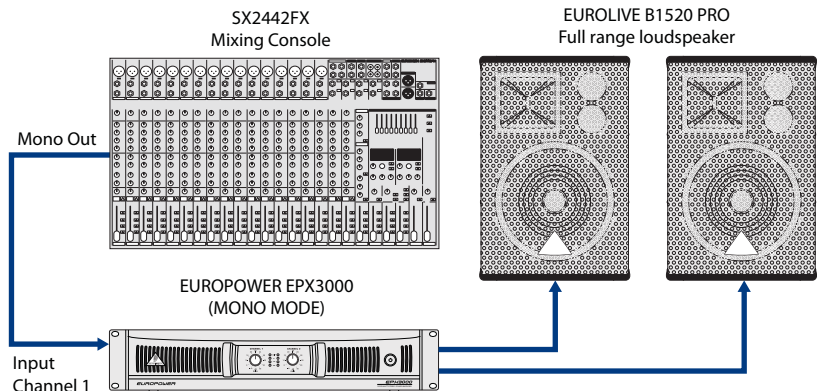
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Stereo Mode



Mono Mode



EPX2000/EPX3000

Power Amps

Bi-Amp Mode

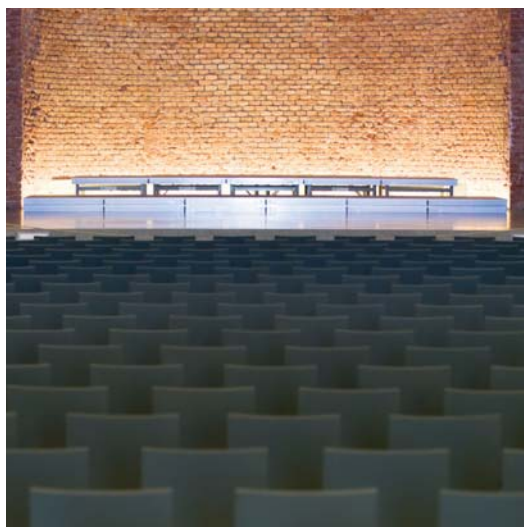
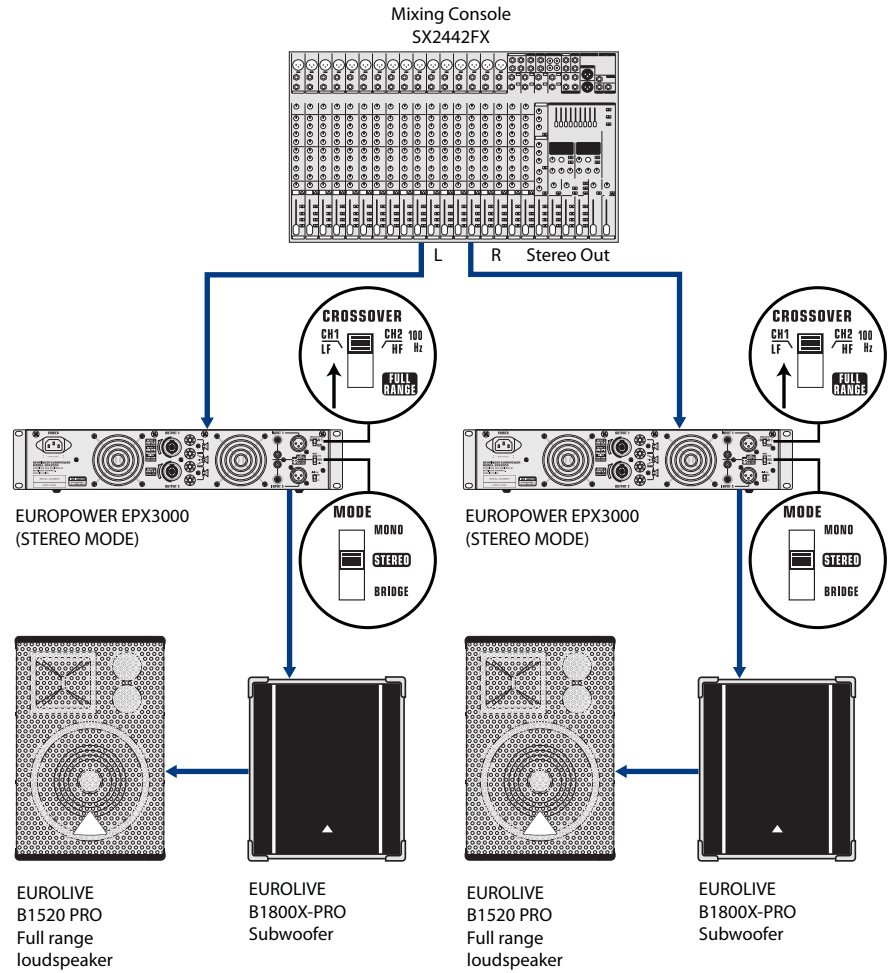
Panel discussion

The EPX series' INPUTs accept balanced XLR, 1/4" TRS, and unbalanced 1/4" TS and RCA connections. Take your pick of professional locking speaker outputs or touch-proof binding posts to securely connect speakers.

A panel of switches found on the back offers an array of cool options applicable to both channels. The Clip Limiter lets you get even more out of the amplifier without overdriving either it or your speaker system. Built-in circuitry automatically senses when the amp is being overdriven into "clipping" and then momentarily reduces the input level to avoid clipping distortion. This all happens in a few thousandths of a second, so it's an inaudible way of avoiding audible clipping distortion. Of course, you can turn the Limiter off if you're feeling lucky.

The same panel contains the switches that allow you to put these amps to work in either mono, stereo (two-channel mode) or bridge mode, which is always in mono. A built-in CROSSOVER switch lets you select the point at which highs and lows are separated (CH1 < 100Hz / CH2 > 100 Hz or FULLRANGE).

BEHRINGER's EPX line is built for the working musician. It's much easier to transport than a conventional AB power amp, it packs ample power, it's got a built-in crossover and limiter, and it's built to last through all the rigors of the road. Plus its light price tag will leave you with enough cash left over to acquire more stuff to amplify! Check out an EPX and find out why BEHRINGER power amps are among the most popular on Earth.



EPX2000/EPX3000

Power Amps

Input Voltage

EPX2000/EPX3000	100V - 240V
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Stereo Mode (both channels driven)

EPX2000/EPX3000	Continuous average output power per channel
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EPX2000

8Ω / 20 Hz - 20 kHz @ 0.1% THD :	350 W
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8Ω / 1kHz @ 0.1% THD :	360 W
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4Ω / 20 Hz - 20 kHz @ 0.1% THD :	600 W
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4Ω / 1 kHz @ 0.1% THD :	650 W
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2Ω / 20 Hz - 20 kHz @ 1% THD :	950 W
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2Ω / 1 kHz @ 1% THD :	1000 W
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EPX3000

8Ω / 20 Hz - 20 kHz @ 0.1% THD :	500 W
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8Ω / 1kHz @ 0.1% THD :	520 W
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4Ω / 20 Hz - 20 kHz @ 0.1% THD :	850 W
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4Ω / 1 kHz @ 0.1% THD :	900 W
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2Ω / 20 Hz - 20 kHz @ 1% THD :	1400 W
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2Ω / 1 kHz @ 1% THD :	1500 W
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Bridged Mono

EPX2000

8Ω / 20 Hz - 20 kHz @ 0.1% THD :	1200 W
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8Ω / 1kHz @ 0.1% THD :	1250 W
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4Ω / 20 Hz - 20 kHz @ 1% THD :	1900 W
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4Ω / 1 kHz @ 1% THD :	2000 W
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EPX3000

8Ω / 20 Hz - 20 kHz @ 0.1% THD :	1700W
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8Ω / 1kHz @ 0.1% THD :	1800W
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4Ω / 20 Hz - 20 kHz @ 1% THD :	2800W
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4Ω / 1 kHz @ 1% THD :	3000W
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Distortion

EPX2000/EPX3000	<0.01%
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Frequency Response (at 10dB below rated output power)

EPX2000	20Hz - 20kHz, +0/-1 dB 5Hz - 50kHz(at -3dB points)
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EPX3000	20Hz - 20kHz, +0/-1 dB 5Hz - 50kHz(at -3dB points)
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Damping Factor (1 kHz and below)

EPX2000	>300 @ 8Ω
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EPX3000	>400 @ 8Ω
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Signal to Noise (20 Hz - 20 kHz)

EPX2000/EPX3000	>100 dB
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Voltage Gain

EPX2000/EPX3000	32 dB
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Input Sensitivity

EPX2000	1V
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EPX3000	1.17V
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Input Impedance

EPX2000/EPX3000	10k ohms unbalanced / 20k ohms balanced
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Controls

Front:	AC switch/ gain controls for each channel
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Rear:	MONO Switch, X-Over Switch, Limiter Switch, BRIDGE MODE Switch
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X-Over	FX 100Hz, 12dB slope
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Limiter Type

EPX2000/EPX3000	VCA CLIP Limiter, switchableIndicators
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Connectors (each channel)

Input:	Active balanced XLR (pin 2+), ¼" TRS
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Output:	Touch-proof binding posts / speaker connectors
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Cooling:

EPX2000/EPX3000	Continuously variable speed fan, back-to-front air flow
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Amplifier protection

EPX2000/EPX3000	Full short circuit, open circuit, thermal, ultrasonic, RF protection. Stable into reactive or mismatched loads
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Load protection

EPX2000/EPX3000	On/off muting, DC-fault power supply shutdown
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Output Circuitry

EPX2000/EPX3000	Class H, 2-tier
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Power consumption

1/8 Power (pink noise) Bridged 4ohms

EPX2000	5A_230V / 9A_120V
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EPX3000	6.5A_230V / 12A_120V
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use fuse rating

EPX2000	EU:10A250V/UL:20A250V
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EPX3000	EU:15A250V/UL:30A250V
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Dimensions

EPX2000/EPX3000	19"/ 2U
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Weight

EPX2000/EPX3000	10.10 kg/22.26 lbs.
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BEHRINGER is constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or illustrated.

For service, support or more information contact the BEHRINGER location nearest you:

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