

EUROPOWER EPX3000/EPX2000

Professional 3,000-Watt Light Weight Stereo Power Amplifier with ATR (Accelerated Transient Response) Technology

- 2 x 1,500 Watts into 2 Ohms;
2 x 900 Watts into 4 Ohms;
3,000 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, ¼" 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



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.

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.

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EUROPOWER EPX3000/EPX2000

- 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

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.

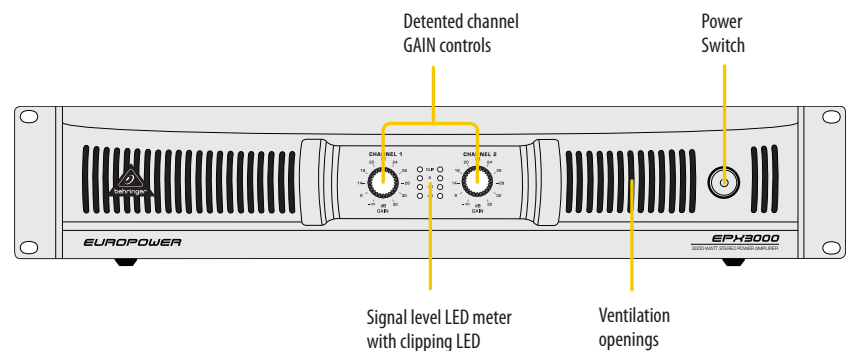
BEHRINGER didn’t invent Class H technology, but our R&D Department has been working for years to perfect our own version, creating lightweight amps that run cool and also achieve our goal of Accelerated Transient Response.

Everything you need, nothing you don't

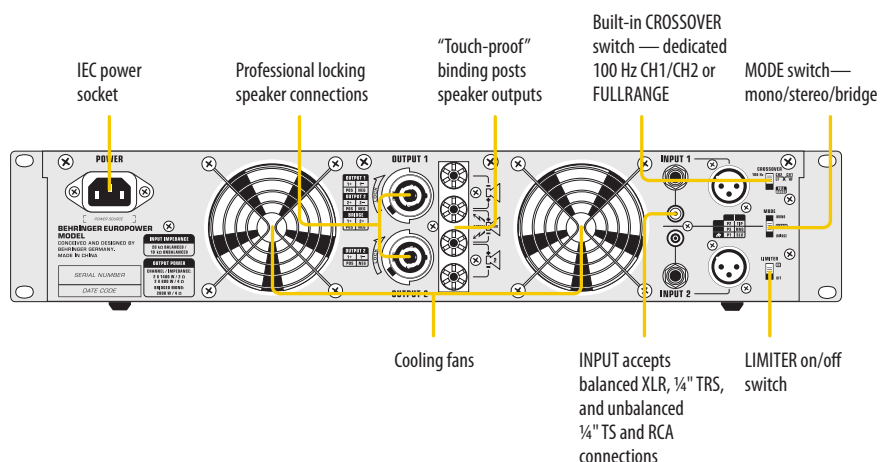
The simple front panel controls of these amps give you all of your sound’s vital signs at a glance. After pressing the Power Button, the POWER LED will light when the amp is ready for action. Both channels have independent gain dials as well as clip LEDs that indicate when the signal is distorted and 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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Front Panel



Rear Panel



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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.

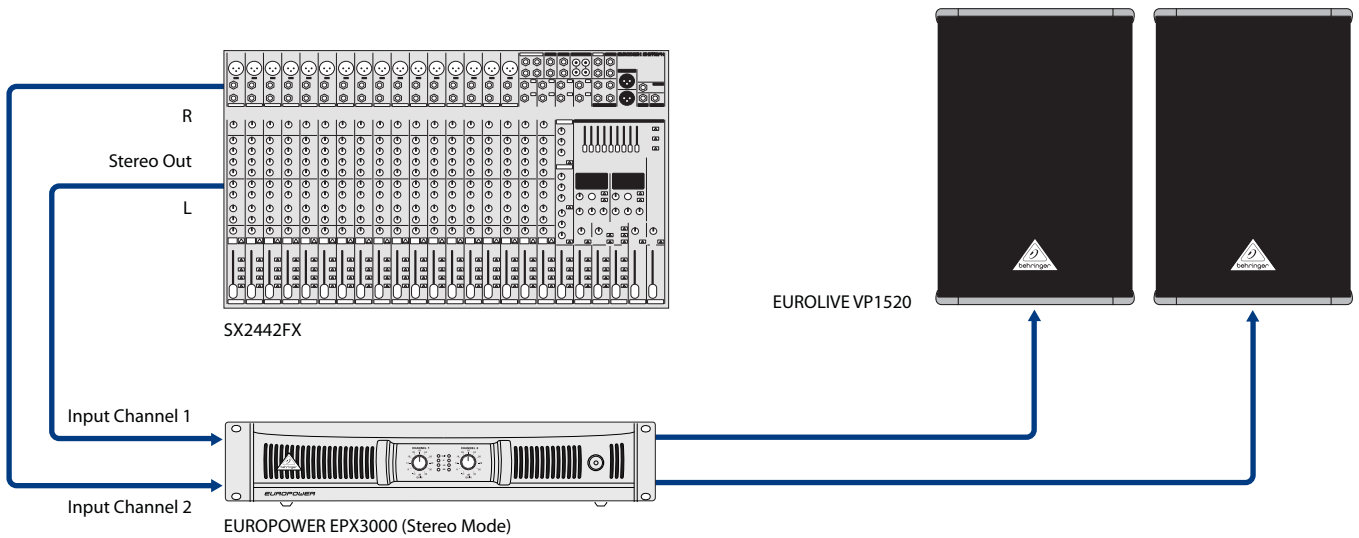
A panel of switches found on the back offers an array of cool options applicable to both channels. The Clip Limiter lets you get even more out of the amplifier without overdriving either it or your speaker system. Built-in circuitry automatically senses when the amp is being overdriven into "clipping" 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

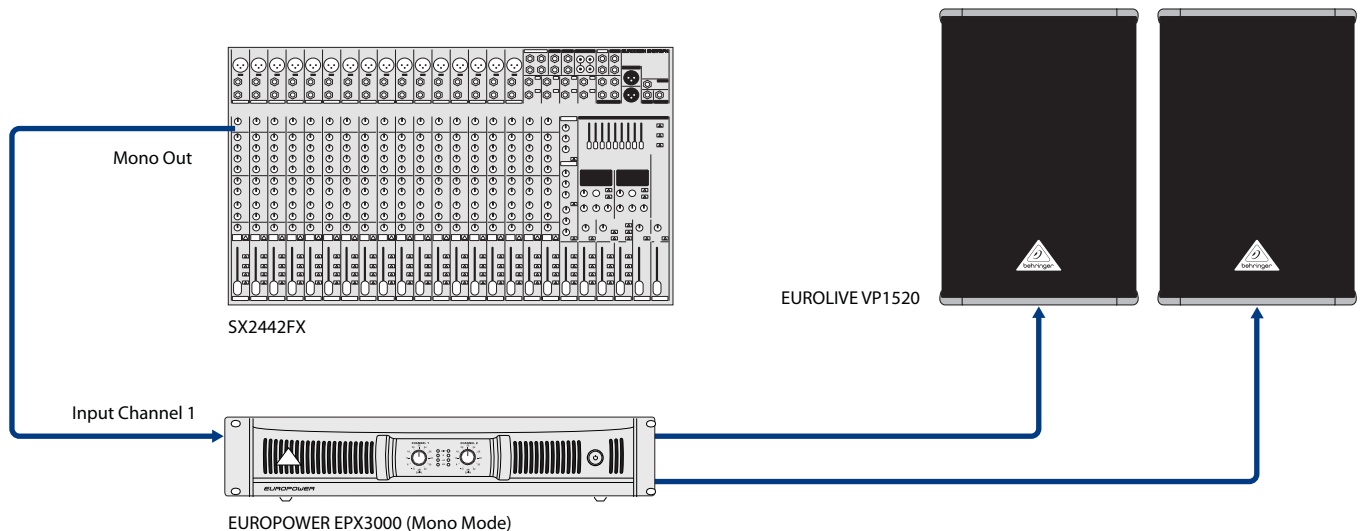
mode) or bridge mode, which is always in mono. A built-in CROSSOVER switch lets you select the point at which highs and lows are separated (CH1<100Hz / CH2>100 Hz or FULLRANGE).

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.

Stereo Mode

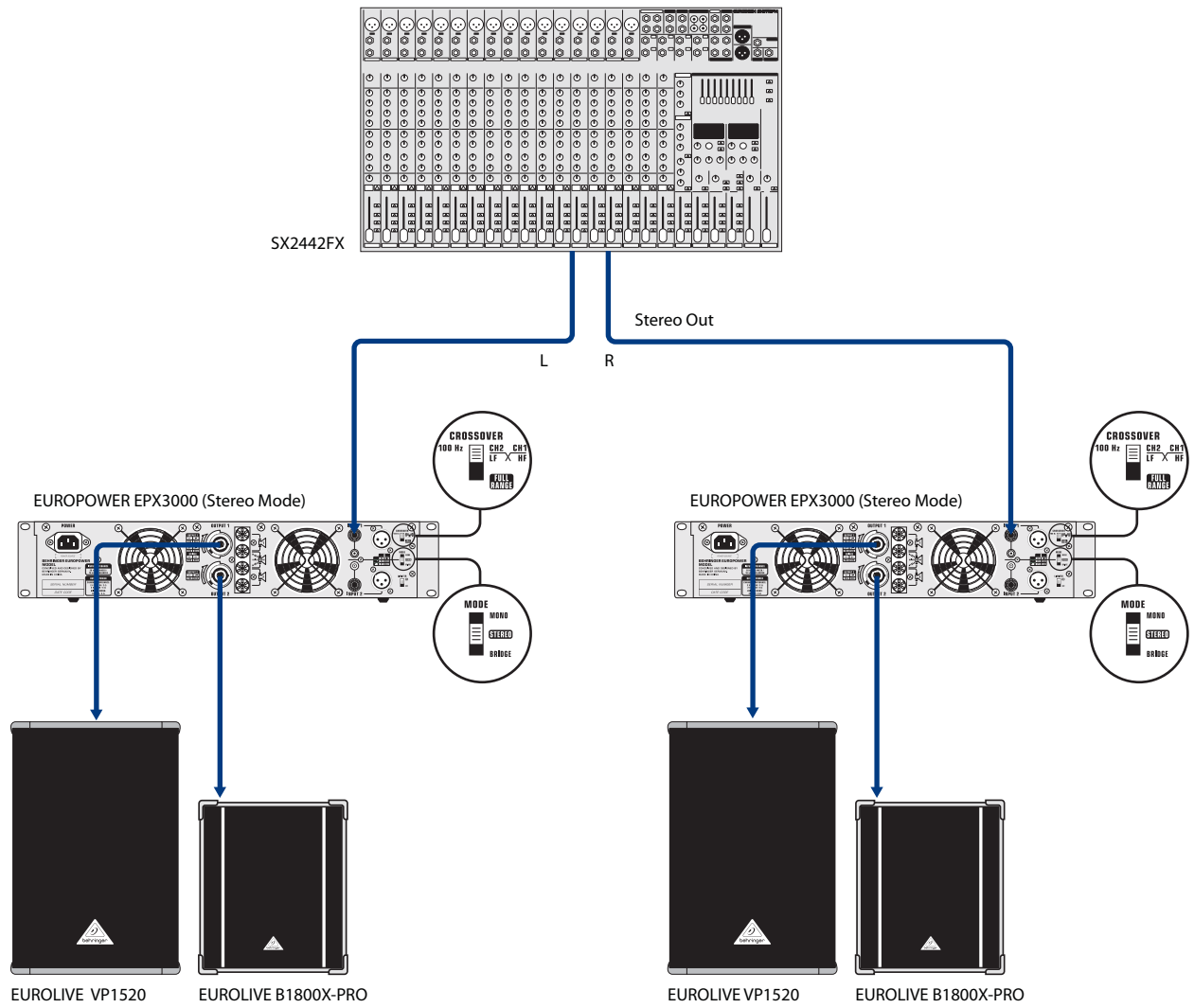


Mono Mode



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Biamp Mode



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Specifications

Output Power

RMS Power

Stereo Mode (both channels driven)

EPX3000

8 Ω / 1 kHz @ 0.1% THD 550 W

4 Ω / 1 kHz @ 0.1% THD 900 W

2 Ω / 1 kHz @ 1% THD 1500 W

EPX2000

8 Ω / 1 kHz @ 0.1% THD 350 W

4 Ω / 1 kHz @ 0.1% THD 600 W

2 Ω / 1 kHz @ 1% THD 1000 W

EPX3000

Bridged Mono

8 Ω / 1 kHz @ 0.1% THD 1800 W

4 Ω / 1 kHz @ 1% THD 3000 W

EPX2000

Bridged Mono

8 Ω / 1 kHz @ 0.1% THD 1250 W

4 Ω / 1 kHz @ 1% THD 2000 W

EPX3000

Peak Power

Stereo Mode (both channels driven)

8 Ω / 1 kHz 650 W

4 Ω / 1 kHz 1150 W

2 Ω / 1 kHz 2100 W

EPX2000

Peak Power

Stereo Mode (both channels driven)

8 Ω / 1 kHz 400 W

4 Ω / 1 kHz 800 W

2 Ω / 1 kHz 1450 W

EPX3000

Bridged Mono

8 Ω / 1 kHz 2250 W

4 Ω / 1 kHz 4000 W

EPX2000

Bridged Mono

8 Ω / 1 kHz 1650 W

4 Ω / 1 kHz 2900 W

EPX3000/EPX2000

Input Sensitivity 1 V

Distortion <0.01%

Frequency Response 20 Hz - 20 kHz, +0/-1 dB

Voltage Gain 35 dB

Damping Factor > 300 @ 8 Ω

Input impedance 10 kΩ unbalanced, 20 kΩ balanced

Signal-to-Noise > 100 dBA

Controls

Front POWER switch GAIN control (channel 1 and 2)

Rear MODE switch X-over Switch, BRIDGE MODE switch

EPX3000/EPX2000

Indicators

POWER Blue LEDs

CLIP (per channel) Blue LEDs

PROT (per channel) Blue LEDs

SIGNAL (per channel) White LEDs

-20dB~-10dB

SIGNAL (per channel) White LEDs

-10dB~ 0dB

Connectors

Inputs Balanced XLR, ¼" TRS, RCA

Outputs Speakon and "touch-proof" binding posts

EPX3000/EPX2000

Circuit protection

Cooling Continuously variable speed fan, back to front air flow

Amplifier protection Full short circuit, open circuit, thermal, ultrasonic, RF protection. Stable into reactive or mismatched loads

Output circuit type Class H

EPX3000

Power supply / Voltage (Fuses)

USA / Canada 120 V~, 60 Hz (T 30 A H 250 V)

UK / Australia 240 V~, 50 Hz (T 15A H 250 V)

Europe 230 V~, 50 Hz (T 15 A H 250 V)

Japan 100 V~, 50-60 Hz (T 30 A H 250 V)

Power consumption 4500W

Mains connector Standard IEC receptacle

EPX2000

Power supply / Voltage (Fuses)

USA / Canada 120 V~, 60 Hz (T 20 A H 250 V)

UK / Australia 240 V~, 50 Hz (T 10A H 250 V)

Europe 230 V~, 50 Hz (T 10 A H 250 V)

Japan 100 V~, 50-60 Hz (T 20 A H 250 V)

Power consumption 3000 W

Mains connector Standard IEC receptacle

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Dimensions/weight

Dimensions (H x W x D) 3.46 x 19.01 x 14.68"
88 x 483 x 373 mm

Weight 22.26 lbs / 10.10 kg

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

Europe MUSIC Group Services EU GmbH
Tel.: +49 2154 9206 4149 / Fax: +49 2154 9206 4199

USA/Canada MUSIC Group Services US Inc.
Tel.: +1 425 672 0816 / Fax: +1 425 673 7647

Singapore MUSIC Group Services SG (Pte.) Ltd
Tel.: +65 6845 1800 / Fax: +65 6214 0275

Australia MUSIC Group Services AU Pty Ltd
Tel.: +61 03 9877 7170 / Fax: +61 03 9877 7870

Japan MUSIC Group Services JP K.K.
Tel.: +81 3 5281 1180 / Fax: +81 3 5281 1181

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