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# EMOTIVA XPA-11 GEN3 - 11 CHANNEL POWER AMPLIFIER

**Brand:** Emotiva  
**Product Code:** XPA-11 Gen3



**Price: R54,990.00**

## Description

### EMOTIVA XPA-11 GEN3 - 11 CHANNEL POWER AMPLIFIER

The new XPA-11 is an eleven-channel audiophile quality power amplifier. The XPA-11 is populated with three of our High-Powered Single Channel Modules, and four of our Stereo Modules, for a total of three high-powered channels and eight lower-powered channels. This combination is ideal for a surround sound system that is used for both music and home theater listening, and includes height speakers. The three front speakers, which are the most critical for both music and home theater listening, are powered by the three high-powered channels. The surround channels, and the height channels, are driven by the lower powered stereo modules. Even though the channels differ in terms of maximum power output, they feature perfectly matched electrical characteristics, and the same superb Class A/B sound quality.

The XPA-11 is perfect for powering:

- A 7.1.4 or 5.1.6 Dolby Atmos or DTS-X system
- A 7.1 or 7.2 channel system that also includes two pairs of smaller speakers in other zones

## Configuration:

5 x High-Powered Single-Channel Modules

2 x Stereo Modules

*The power output capabilities of the various channels on the XPA-11 were optimized to provide the best sound quality in real-world listening conditions; the front channels, which are the most critical for both dynamic music reproduction and crystal clear dialog, receive the most power. (This is especially the case if your system features large tower speakers in the front, a large center channel speaker, bookshelf or wall mounted surrounds, and ceiling mounted height speakers.)*

## Power output (High-Powered Single Channel Modules):

300 watts/channel RMS into 8 Ohms; two channels driven

490 watts/channel RMS into 4 Ohms; two channels driven

## Power output (Stereo Modules):

65 watts/channel RMS into 8 Ohms; two channels driven

100 watts/channel RMS into 4 Ohms; two channels driven

## Sound Quality First

- Designed first and foremost to sound superb in all types of audio systems with all types of music.
- Low noise, low distortion, wideband amplifier design with traditional Class A/B output stage ensures smooth, detailed sound, without a trace of strain or harshness.
- Totally stable with real world speakers in real systems; not just on a test bench.

## Modern Efficient Circuit Design

- Optimized Soft-Switch Class H<sup>TM</sup> power supply topology delivers improved efficiency without compromising audio performance.
- Switched Mode Power Supply (SMPS) offers all of the performance of a traditional linear power supply, with improved efficiency and reliability, and reduced overall weight.

## Quality Construction

- Top quality parts and construction throughout for years of reliable trouble-free service.
- Heavy steel 4RU chassis with milled aluminum faceplate offers strength and rugged good looks.
- Solid machined gold-plated RCA input connectors provide a reliable connection with a wide variety of audio interconnects.
- Fully modular construction allows you to purchase as many channels as you need today, and then add more channels later when and if you need them.
- Designed, assembled, and tested in the U.S.A. at our plant here in Franklin, Tennessee

### **Flexible Signal Connections and Power Options**

- Gold plated five-way speaker binding posts with clear shields allow you to use a wide range of speaker cables with bare wires, lugs, or banana plugs.
- Choice of balanced or unbalanced input for each channel, independently controlled by reliable metal toggle switches.
- Remote trigger input and output allow the XPA-11 Gen3 to control and be controlled by other trigger-enabled equipment.
- World compliant AC line voltage operation enables the XPA-11 Gen3 to operate on any line voltage between 100 VAC and 250 VAC 50/60Hz.
- Standard IEC power inlet fits all standard IEC power cables and most custom audiophile power cables.

### **Protection**

- Audiophile-grade fault protection is entirely transparent under normal listening conditions, yet protects the amp and your other equipment from virtually all common faults.
- The XPA-11 Gen3 is protected from AC line faults by a rugged resettable rear

panel push-button circuit breaker.

## **Circuit Topology**

- The XPA-11 Gen3 is a fully modular audio power amplifier with a high-efficiency switch mode power supply (SMPS), independent, fully discrete, dual differential, high current, short signal path Class A/B amplifier modules, Optimized Class H™ power supply topology, and microprocessor-controlled fault protection.
- The XPA-11 is powered by a high efficiency, audiophile grade, Switch Mode Power Supply (SMPS).

## **Audio Specifications**

The XPA-11 Gen3 features three of our High-Powered Single Channel Modules and four of our Stereo Modules.

### **Audio Specifications (High-Powered Single Channel Modules):**

- Power Output:
  - 300 watts RMS/channel; 20 Hz – 20 kHz; THD<0.1%; 8 Ohms; one channel driven.
  - 550 watts RMS/channel; 20 Hz – 20 kHz; THD<0.2%; 4 Ohms; one channel driven.
  - 300 watts RMS/channel; THD<0.1%; 8 Ohms; two channels driven.
  - 490 watts RMS/channel; THD<0.1%; 4 Ohms; two channels driven.
- Power Bandwidth (at rated power; 8 Ohm load): 20 Hz to 20 kHz (+ / – 0.1 dB).
- Broad Band Frequency Response: 5 Hz to 80 kHz +0/-2 dB.
- THD + noise: < 0.005%; at 100 watts RMS; 1 kHz; 8 Ohms.
- Signal to Noise Ratio (8 Ohm load):
  - > 115 dB; ref FTC rated power; unbalanced input (A-weighted).
  - > 86 dB; ref 1 watt; unbalanced input (A-weighted).
- Minimum Recommended Load Impedance (per channel): 4 Ohms (which equals one 4 Ohm load or two paralleled 8 Ohm loads).

- Damping Factor (8 Ohm load): > 500.
- Input Sensitivity (for rated power; 8 Ohm load): 1.5 V.
- Gain: 29 dB.
- Input Impedance:  
33 kOhms (balanced).  
23.5 kOhms (unbalanced).

### **Audio Specifications (Stereo Modules):**

- Power Output:  
65 watts RMS/channel; 20 Hz – 20 kHz; THD<0.1%; 8 Ohms; one channel driven.  
100 watts RMS/channel; 20 Hz – 20 kHz; THD<0.2%; 4 Ohms; one channel driven.  
65 watts RMS/channel; THD<0.1%; 8 Ohms; two channels driven.  
100 watts RMS/channel; THD<0.1%; 4 Ohms; two channels driven.
- Power Bandwidth (at rated power; 8 Ohm load): 20 Hz to 20 kHz (+ / – 0.1 dB).
- Broad Band Frequency Response: 50 Hz to 80 kHz +0/-1.5 dB.
- THD + noise: < 0.02%; at 60 watts RMS; 1 kHz; 8 Ohms
- Signal to Noise Ratio (8 Ohm load):  
> 105 dB; ref FTC rated power; unbalanced input (A-weighted).  
> 85 dB; ref 1 watt; unbalanced input (A-weighted).
- Minimum Recommended Load Impedance (per channel): 4 Ohms  
(which equals one 4 Ohm load or two paralleled 8 Ohm loads).
- Damping Factor (8 Ohm load): > 500.
- Input Sensitivity (for rated power; 8 Ohm load): 0.8 V (800 mV).
- Gain: 29 dB.

- Input Impedance:  
33 kOhms (balanced).  
23.5 kOhms (unbalanced).

## **Input And Output Connections**

- Input Connections (High-Powered Single Channel Modules):  
Unbalanced (RCA); balanced (XLR); one each per channel, independently selectable.
- Input Connections (Stereo Modules):  
2 Unbalanced (RCA); 2 balanced (XLR); two per channel, independently selectable.
- Speaker Output Connections: Audiophile grade, gold plated, 5-way binding posts.
- Trigger:  
Trigger Input: 5 – 12 V (AC or DC); Trigger Output: 12 VDC; can drive any load up to 120 mA.

## **Power Requirements**

- Between 100 VAC and 250 VAC @ 50 / 60 Hz (automatically detected).

## **Front Panel Controls and Indicators**

- Standby: push button (halo ring changes color to indicate Standby or On).
- Status LEDs: one per channel; blue.  
Status LEDs change to red to indicate a fault condition.

## **Rear Panel Controls**

- AC Power switch: rocker switch (switches AC main power).
- Status LEDs switch: disables front panel Status LEDs and dims Standby button halo.

- Input selector switches (one per channel):  
metal toggle switches; select between balanced and unbalanced inputs.
- Circuit Breaker: press button to reset circuit breaker.

## Protection

- The XPA Gen3 is protected against excessive operating temperature, shorted speaker connections, ground faults, and other common fault conditions.

## Mechanical

- Dimensions:  
17" wide x 8" high x 19" deep (unboxed; including feet).  
17" wide x 7" high x 19" deep (unboxed; without feet).  
24-1/2" wide x 12" high x 24-3/4" deep (boxed).
- Weight:  
53 lbs (unboxed).  
58 lbs (boxed).

## Product Gallery

