

## Overview

XA-300.2 is an intelligent digital power amplifier specially designed for the AV integration market based on the concept of Internet of Things among X-AMP intelligent power amplifiers. It integrates remote management, digital signal transmission, digital signal processing, E-Link bus, closed-loop control, etc. These functions are integrated into one, and can be managed and controlled through the cloud through its own software or with a third-party IoT management platform, making system integration easier and more convenient. XA-300.2 The small and compact design of XA-300.2 can meet various installation methods such as cabinet installation, table bottom installation, wall installation, and machine back installation through flexible combination. Various built-in sensing devices detect various states of power amplifiers and speakers in real time, and use closed-loop control to automatically adjust various parameters in real time, so that power amplifiers and speakers are always in the best working state.

## Features

- Powerful DSP processing capability.
- SHARC floating-point processing chip-set
- 48kHz sample rate and 24bit depth .
- Input with redundant function
- Built-in 96 IIR filters of various types.
- Built-in 1024 order FIR filter
- Sound pressure dynamic EQ processing
- Compact 1/3 width opposite rack size.
- Real-time detection and protection.
- All-round real-time status monitoring.
- Open source platform.
- Compact size with high power output (2\*350W/8Ω)
- Overheat voltage limit, overload protection, output DC protection.
- LAN \RS-485 \USB communication protocol.
- 100V~240V global voltage power supply.

## Applications:

- Function Room
- Lecture Hall
- Meeting room
- conference room
- Concert Hall
- Executive lobby



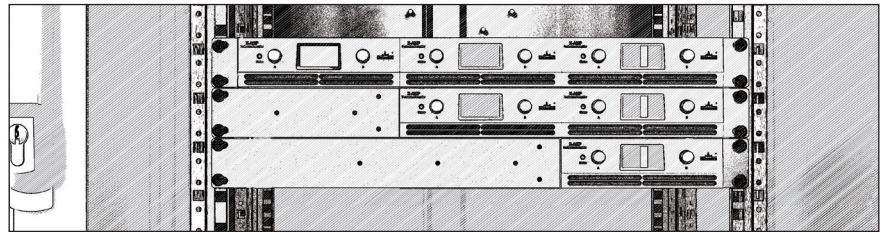
## Description

XA-300.2 intelligent power amplifier has built-in powerful DSP function, up to 96 IIR filter resource pools of various forms, 1024-order FIR filter, 6 real-time sampling limiter controls, providing comprehensive control and protection for speakers and power amplifiers . The built-in Dynamic EQ can simulate the effect of equal loudness circuit (Loudness), which can automatically boost low-frequency and high-frequency signals when listening at low volume such as conference rooms or commercial spaces, so as to obtain better tone balance.

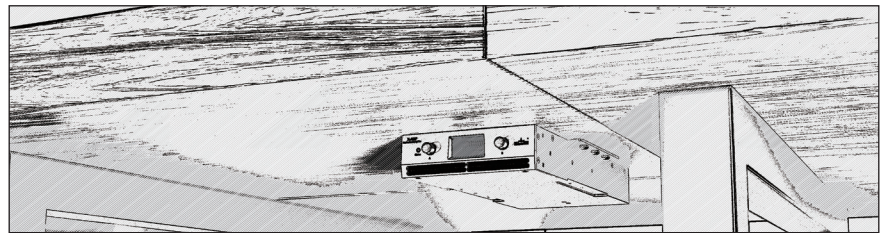
XA-300.2 Class D power amplifier with PFC technology provides high-efficiency output, effectively reduces energy consumption, reduces heat generation, and can automatically adapt to the global operating voltage of 100V ~ 240V. The XA-300.2 Load environment, whether the load is resistive, capacitive, inductive or the superposition of several characteristic impedances. The application of variable oscillation modulation technology and multiple feedback control greatly improves the low resistance load performance of the power amplifier. And can be used as a constant voltage power amplifier with 100V output through bridge connection.

Based on E-Link (Enewave Link Bus) bus technology and X-COM network protocol, it fully integrates the office LAN communication, RS-485 serial communication and USB communication make the connection and control of the system very simple and convenient.

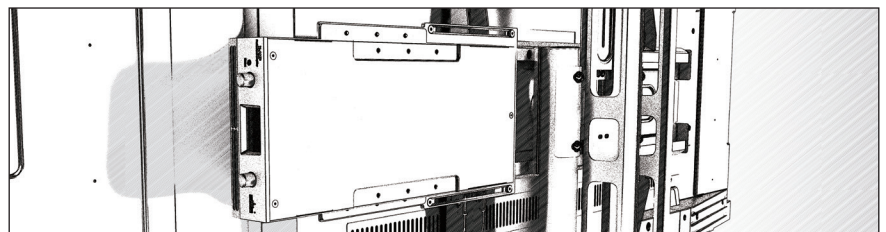
## Installation method



19"rackmount



Under of table



Wall mount or mounting behind of TV

## Specifications

### Amplifier

Rate power(RMS THD=1%,continue sine wave 1kHz , typical):  
 2x350W/8ohms;2x450W/4ohms (Dual)  
 1x900W/8ohms(Bridge)  
 1x900W/100V (Constant voltage)  
 Voltage gain :27.8dB(8Ω,1kHz)  
 THD+N/typical: 0.001%(10%RMS output power,1kHz,8Ω)  
 Frequency response:20Hz-20kHz (typical: ±0.2dB  
 (10%MS output power,8Ω)  
 Input impeacande:20kΩ(balance),10kΩ(unbalance)  
 S/N Ratio: ≥100dB(A weithg,20Hz-20kHz,8Ω)  
 Damping factor:1000@100Hz

### DSP architecture

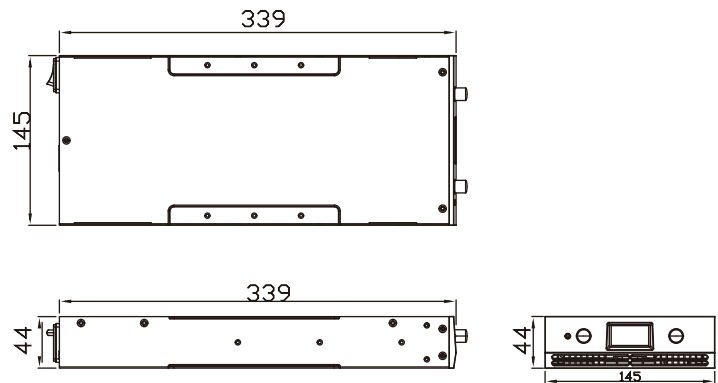
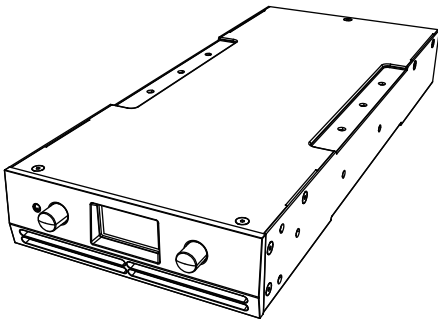
DSP chip-set:ADI SHARC float point procession chip-set  
 Sample rate & bit rate:48kHz / 24bit high dynamic  
 AD/DA dynamic: typical, 114dB  
 Protection :over thermal, over load, DC output  
 Processor: Gain,HPF,LPF,IIR parameter EQ ,  
 FIR filter,dynamicEQ, delay,output current limiter with  
 output feedback,voltage limiter, thermal limiter,Impedance  
 abnormality protection, overload protection etc.

### Unit specifications

Power supply: 100~240VAC, 50/60Hz  
 1U installation height, three modules can form a 19" standard  
 rack-mounted 6-channel power amplifier  
 Dimension: 145mm X mm X 44mm X 339mm (W X H X D)  
 Packing dimension: 305mm X 90mm X 470mm (W X H X D)  
 Net weight:1.95KG  
 Shipping weight: 3.75KG

## Dimensions

Unit:mm



Rack-mount adaptors

