

# A44D

4-channel high-performance power amplifier



- ✓ RENTAL
- ✓ INSTALLATIONS



## Features

- Class D with active distortion compensation
- The most accurate sound reproduction account of less deep feedback
- No noticeable thermal distortion when playing low frequencies
- Full control of the speaker cone due to extremely low output impedance
- No need to use Zobel chains, and since the feedback is taken directly from the output, distortion and non-linearities are corrected, which are included in the signal
- Switching power supply with active power factor corrector (PFC), so the efficiency can reach 96%
- The power supply is based on an LLC resonant half-bridge converter topology. Rectangular structures typical of capacitor circuits are converted into sine waves, greatly improving efficiency

## Compatibility

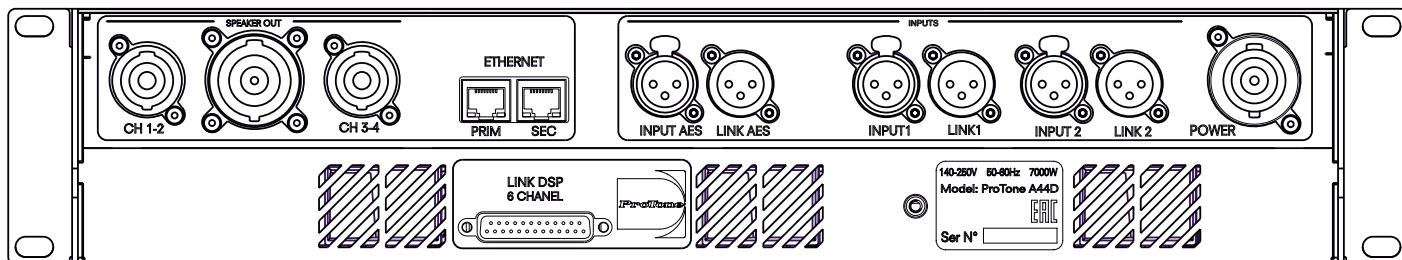
- Line arrays
- Full Range Speakers
- Subwoofers

## Application

- Stadiums and Sports Arenas
- Concert Halls & Clubs
- Bars and Restaurants
- Malls and shops
- Amusement parks
- Theme parks
- City parks and squares
- Educational institutions
- Open air events

# A44D

## 4-channel high-performance power amplifier



### Specifications

#### DSP

Input mixer	4 channels: 2 analog channels, 2 AES/EBU channels, routing
Input processing	10 band parametric equalizer
Output processing	Linear phase and classic crossover, 10 band parametric EQ, delay, limiter, gain, polarity switch
Conversion Resolution	24-bit
Sample rate/Internal precision	192/96 kHz / 32 bit
Maximum delay	2 seconds
Inputs and outputs	2 analog inputs, 1 AES/EBU(AES3) input
Dynamic range	114 dB
Supported Resolutions	Up to 24-bit
Supported sample rates	18 - 192 kHz
Remote control and monitoring of network connection	Dual port Interface Ethernet Gigabit
Remote control software	ProTone LM (Loudspeaker manager) ProTone SM (System manager)
Number of output channels	4
Maximum output voltage per channel	141V
Maximum output current per channel	60A
Circuit design	Class D with active distortion compensation

#### Output power according to

#### CEA-2006/490A (1% THD, 1 kHz)

**2,66 Ohm    4 Ohm    8 Ohm    16 Ohm**

One channel RMS (Maximum Sinusoidal Power)	3500 W	2800 W	1400 W	700 W
--	--------	--------	--------	-------

#### Sound characteristics

THD + N at 1 kHz and 1 dB below clipping	<0,05%
Signal-to-noise ratio	>112 dB
Damping factor (4 ohms, 20Hz - 20kHz)	>500
Frequency response (1W, 8 Ohms)	20Hz - 20kHz (+/- 0,5 dB)

#### Gain

Gain	37 dB
------	-------

#### Rear panel interfaces

Input connector	3-pin XLR, balanced
Output connector	SpeakON 8-pin - 1 pcs. SpeakON 4-pin - 2 pcs.
Cooling	Three fans, rear airflow, with temperature control speed

#### Mains power

Operating voltage, V 220 V 16A	140 - 250V (50-60Hz)
Maximum power consumption	3600 W

#### Weight and dimensions

Dimensions (WxHxD)	482x88x443 mm
Weight	15 kg