



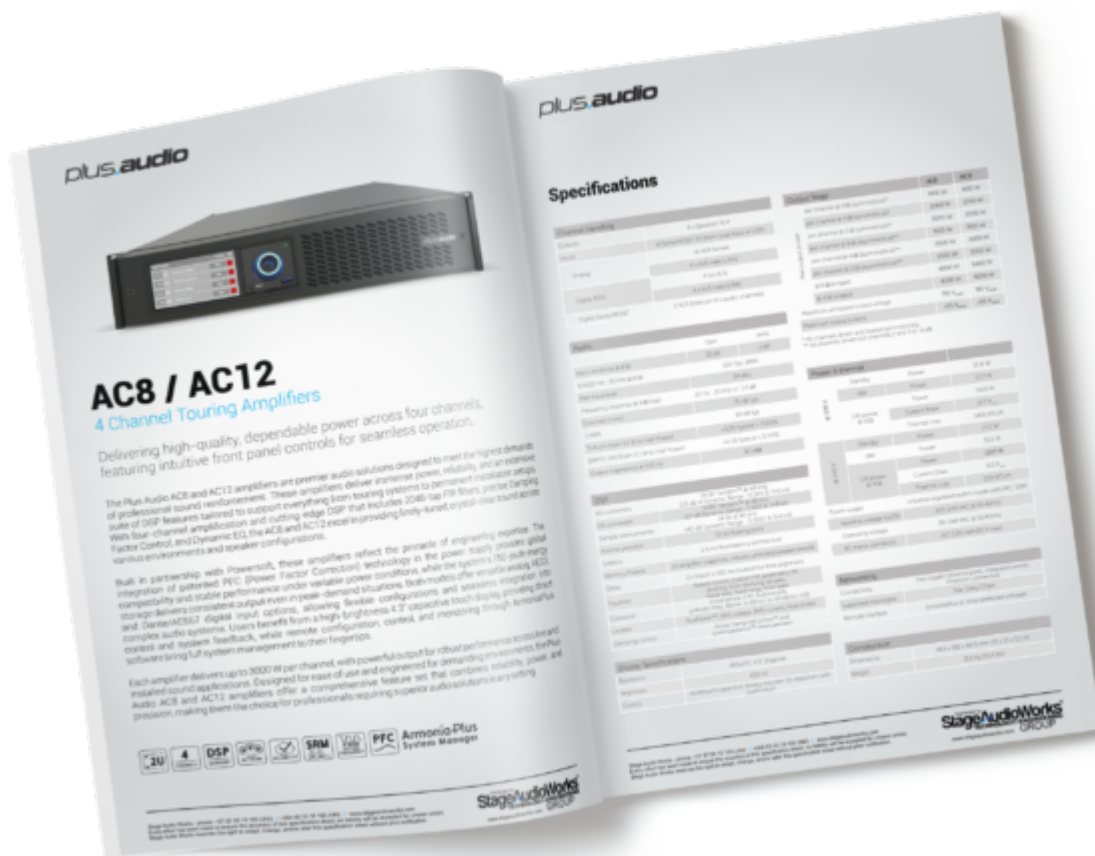
AC12

Description

The Plus Audio AC12 amplifier is a premium audio solution designed to meet the highest demands of professional sound reinforcement. This amplifier delivers immense power, reliability, and an extensive suite of DSP features tailored to support everything from touring systems to permanent installation setups. With four-channel amplification and cutting-edge DSP that includes 2048-tap FIR filters, precise Damping Factor Control, and Dynamic EQ, the AC12 provides finely tuned, crystal-clear sound across various environments and speaker configurations.

Built-in partnership with Powersoft, these amplifiers reflect the pinnacle of engineering expertise. The integration of patented PFC (Power Factor Correction) technology in the power supply provides global compatibility and stable performance under variable power conditions, while the system's 750-joule energy storage delivers consistent output even in peak-demand situations. The AC12 offers versatile analog, AES3, and Dante/AES67 digital input options, allowing flexible configurations and seamless integration into complex audio systems. Users benefit from a high-brightness 4.3" capacitive touch display, providing direct control and system feedback, while remote configuration, control, and monitoring through ArmoníaPlus software brings full system management to their fingertips.

The AC12 delivers up to 3000 W per channel, with powerful output for robust performance across live and installed sound applications. Designed for ease of use and engineered for demanding environments, the Plus Audio AC12 amplifiers offer a comprehensive feature set that combines reliability, power, and precision, making them the choice for professionals requiring superior audio solutions in any setting.



Meta Fields

Features :

- Innovative power supply design
- Flexible routing and mixing
- 4.3" touch screen display and rotary encoder for intuitive control
- Four input channels with physical analogue and digital AES3 link in/out connectors for maximum flexibility
- Analogue to Dante conversion and forwarding for ease of signal distribution
- Customisable input backup policy to automatically switch input source in case of signal failure for improved reliability
- Complete user control and monitoring interface in ArmoníaPlus
- Top-grade DSP with high dynamic range and extensive feature set
- Multi-stage signal processing
- Input and output IIR, FIR, IIR+FIR equalizers and raised-cosine filters
- Complete sets of limiters (Peak, RMS voltage, RMS current, Clip and TruePower™)
- Speaker cable loss compensation with Active DampingControl™
- Full protection circuitry: over/under AC voltage; troublesome signals (clipping, VHF, long-term RMS); DC; thermal; short circuit; and mute at power on/off

Specification :

Number of channels

4

Output power (per channel)	Single channel mode: 2000 W (1000 W per channel) Bridge mode: 4000 W (2000 W per channel)
Max output voltage	180 V peak
Max output current	> 55 A peak
Power consumption	@ 100 V – Standby: 16 W @ 240 V – Standby: 17 W
Current Draw (1/8 Power @ 4 Ω)	@ 100 V – 16.5 A @ 240 V – 8.9 A
Thermal dissipation (1/8 Power @ 4 Ω)	@100 V – 1670 BTU/h @240 V – 2000 BTU/h
AC Mains Power	Universal regulated switch mode power supply
Operating voltage	90 V – 264 VAC @ 50-60 Hz
Frequency response @ 8 Ω	20 Hz – 20 kHz (±1 dB)
Crosstalk (1kHz)	-75 dB typ.
THD+N (from 0.1 W to Half Power)	< 0.1% (typical < 0.05%)
SMPTE IMD (from 0.1 W to Half Power)	< 0.1% (typical < 0.05%)
Input impedance	20 kΩ balanced
AD Converters	24 Bit Tandem™ @ 48 kHz 125 dB-A Dynamic Range
DA Converters	24 Bit Tandem™ @ 48 kHz 117 dB-A Dynamic Range
Sample rate converter	24 Bit @ 96 kHz 140 dB Dynamic Range
Internal precision	32 bit floating point
Latency	2.5 ms fixed latency and 100 ms variable
Memory/Presets	50 amplifier snapshots
Equalizer	Raised-cosine, custom EQ, parametric EQ, notch, shelving, all-pass, band-pass, band-stop
Crossover	Linear phase (FIR), Butterworth, Linkwitz-Riley
Delay	2 s (input) + 100 ms (output)
Limiters	TruePower™, RMS voltage, peak-to-peak, crest factor
Damping control	Active DampingControl™
Display dimensions	98.7 x 56.2mm / 4.3" x 2.2"
Display resolution	480 x 272
Display brightness	600 nit
Display control	Multitouch capacitive. 10 touch points
Input connectors	4 x XLR-F – Analog signal 2 x XLR-F – AES3 signal

Network connectors	2 x etherCon (4 x Dant
Output connectors	2 x RJ45 port
Height	4 x speakON NL4
Width	88,9 mm / 3,5"
Depth	483 mm / 19"
Weight	381 mm / 15"
	11.3 kg