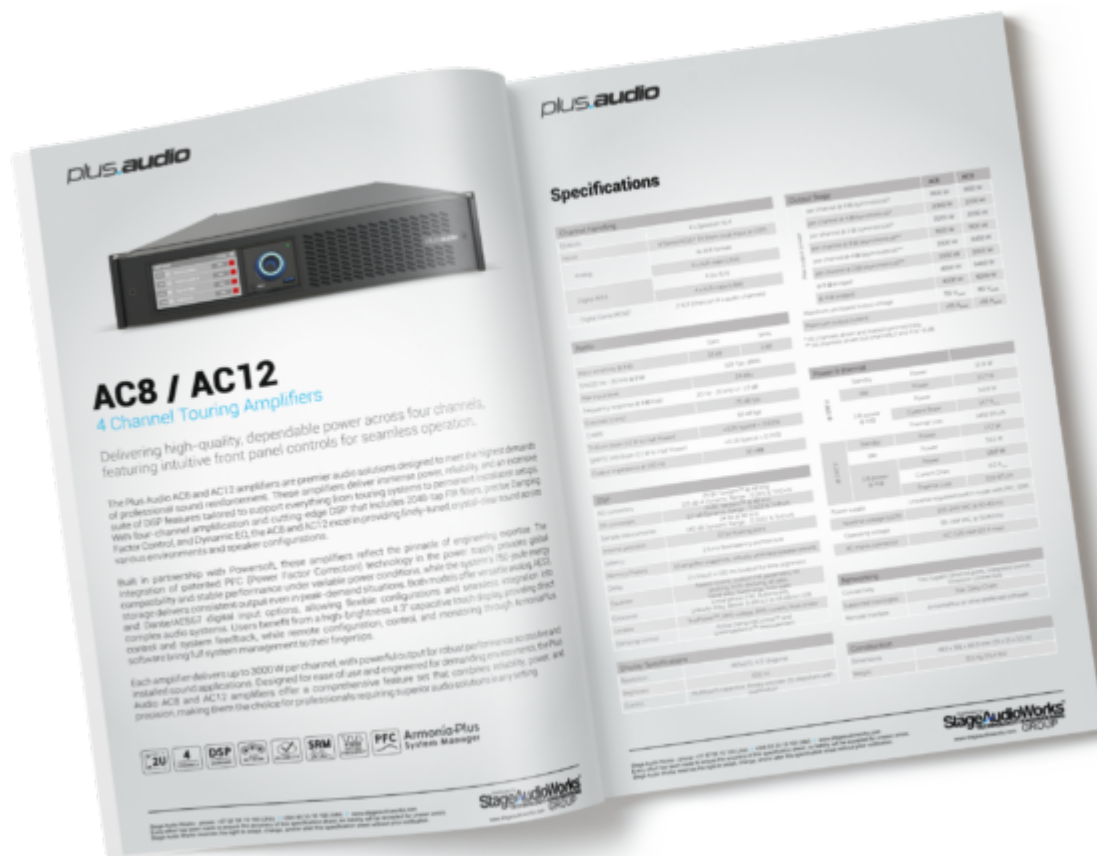# AC8

Description

The Plus Audio AC8 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 AC8 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 AC8 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 bring full system management to their fingertips.

The AC8 delivers up to 2300 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 AC8 amplifier offers 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 interface integrated into Armonia Pro Audio Suite™
- 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, 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	Single channel mode: 2000 W @ 2 Ω, 2000 W @ 4 Ω,
(per channel)	Bridge mode: 4000 W @ 4 Ω, 4000 W @ 8 Ω
Max output voltage	155 V peak
Max output current	> 55 A peak
Power consumption	@ 100 V – Standby: 16 W | 1/8 Power @ 4 Ω: 1460 W
	@ 240 V – Standby: 17 W | 1/8 Power @ 4 Ω: 1440 W
Current Draw (1/8 Power @ 4 Ω)	@ 100 V – 15.3 A
	@ 240 V – 6.6 A
Thermal dissipation (1/8 Power @ 4 Ω)	@100 V – 1550 BTU/h
	@240 V – 1480 BTU/h
AC Mains Power	Universal regulated switch mode with PFC, SRM
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 – 0.005 % THD+N
DA Converters	24 Bit Tandem™ @ 48 kHz
	117 dB-A Dynamic Range – 0.003 % THD+N
Sample rate converter	24 Bit @ 96 kHz
	140 dB Dynamic Range – 0.0001 % THD+N
Internal precision	32 bit floating point
Latency	2.5 ms fixed latency architecture
Memory/Presets	50 amplifier snapshots, virtually unlimited speaker pr
Equalizer	Raised-cosine, custom FIR, parametric IIR: peaking, h
Crossover	linear phase (FIR), Butterworth, Linkwitz-Riley, Bessel
Delay	2 s (input) + 100 ms (output) for time alignment
Limiters	TruePower™, RMS voltage, RMS current, Peak limiter
Damping control	Active DampingControl™ and LiveImpedance measur
Display dimensions	480mm x 272mm / 4.3″
Display brightness	600 nit
Display control	Multitouch capacitive. Rotary encoder 20 steps/turn v
Input connectors	4 x XLR-F – Analog signal input (4 x XLR-M, Link)
	2 x XLR-F – AES3 signal input (2 x XLR-M, Link)

2 x XLR EtherCon (4 x Dante/AES3 Channels)

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