



# AC8 / AC12

## 4 Channel Touring Amplifiers

Delivering high-quality, dependable power across four channels, featuring intuitive front panel controls for seamless operation.

The Plus Audio AC8 and AC12 amplifiers are premier audio solutions designed to meet the highest demands of professional sound reinforcement. These amplifiers deliver 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 and AC12 excel in providing 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. Both models offer 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 amplifiers deliver up to 3000W (AC12) and 2300W (AC8) 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 and 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.





## Key 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
- Customizable 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

## Applications

- Small to large-scale touring systems
- Arenas & concert halls
- Stadiums & open-air events
- Venues & live clubs

# Specifications

Channel Handling	
Outputs	4 x Speakon NL4
Inputs	4 Dante/AES67 TX (from local input or DSP)
Analog	4x XLR female
	4 x XLR male (LINK)
Digital AES3	4 (2x XLR)
	4 x XLR male (LINK)
Digital Dante/AES67	2 XLR Ethercon (4 x audio channels)

Audio		
	Gain	Vrms
Input sensitivity @ 8 $\Omega$	32 dB	2.86
S/N (20 Hz - 20 kHz @ 8 $\Omega$ )	109 Typ. dB(A)	
Max input level	24 dBu	
Frequency response @ 8 $\Omega$ load	20 Hz - 20 kHz +/- 1.0 dB	
Crosstalk (1 kHz)	-75 dB typ.	
CMRR	65 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%)	
Output impedance at 100 Hz	30 m $\Omega$	

DSP	
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 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 presets
Delay	2 s (input) + 100 ms (output) for time alignment
Equalizer	Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass
Crossover	Linear phase (FIR), Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct (IIR)
Limiters	TruePower™, RMS voltage, RMS current, Peak limiter
Damping control	Active DampingControl™ and LiveImpedance™ measurement

Display Specifications	
Resolution	480x272, 4.3" diagonal
Brightness	600 nit
Control	Multitouch capacitive. Rotary encoder 20 steps/turn with pushbutton

Output Stage		AC8	AC12
Max output power	per channel @ 8 $\Omega$ (symmetrical)*	1400 W	1800 W
	per channel @ 4 $\Omega$ (symmetrical)*	2000 W	2700 W
	per channel @ 2 $\Omega$ (symmetrical)*	2000 W	2000 W
	per channel @ 8 $\Omega$ (asymmetrical)**	1500 W	1900 W
	per channel @ 4 $\Omega$ (asymmetrical)**	2300 W	3000 W
	per channel @ 2 $\Omega$ (asymmetrical)**	2000 W	2000 W
@ 8 $\Omega$ bridged		4000 W	5400 W
@ 4 $\Omega$ bridged		4000 W	4000 W
Maximum unclipped output voltage		155 V <sub>peak</sub>	180 V <sub>peak</sub>
Maximum output current		>55 A <sub>peak</sub>	>55 A <sub>peak</sub>

\* All channels driven and loaded symmetrically

\*\* All channels driven but channels 2 and 4 at -6 dB

Power & thermal			
@ 100 V	Standby	Power	15.8 W
	Idle	Power	33.7 W
	1/8 power @ 4 Ω	Power	1429 W
		Current Draw	14.7 A <sub>rms</sub>
		Thermal Loss	1458 BTU/h
@ 240 V	Standby	Power	17.2 W
	Idle	Power	33.5 W
	1/8 power @ 4 Ω	Power	1327 W
		Current Draw	6.0 A <sub>rms</sub>
		Thermal Loss	1111 BTU/h
Power supply		Universal regulated switch mode with PFC, SRM	
Nominal voltage (±10%)		100-240 VAC @ 50-60 Hz	
Operating voltage		90-264 VAC @ 50/60 Hz	
AC mains connector		IEC C20 inlet (20 A max)	

Networking	
Connectivity	Two Gigabit Ethernet ports, integrated switch, Ethercon connectors
Supported topologies	Star, Daisy Chain
Remote interface	ArmoniaPlus or other preferred software

Construction	
Dimensions	483 x 381 x 88.9 mm (19 x 15 x 3.5 in)
Weight	11.5 Kg (25.4 lbs)