

Christie CDA3 Professional power amplifier



3000W in a sleek, efficient and powerful Class D design

Ideal for cinema audio applications, the Christie® CDA3 professional power amplifier utilizes an advanced high-speed Class D architecture and high current switch mode power supply. It offers high-power output and efficiency with very low heat output and fast transient response and stability, even with low impedance loads. Featuring two fully independent channels, with operation in parallel, stereo and bridged modes, the Christie CDA3 handles a range of demanding applications with ease.

Key features

Class D architecture	870W per channel at 4 ohms @ <0.1% THD
High-power output, high efficiency and stable performance	Switch mode power supply
Two channels of independent, fourth-order 100Hz crossovers	Neutrik XLR/TRS 1/4" inputs, balanced +4dB professional level
Active, Signal Present, DC Protection and Thermal LED indicators	Neutrik Speakon high current locking output connectors
Parallel/Bridge/Stereo mode switch	Limited three year warranty
Stepped input level controls	

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Reliability and quality built in

Designed for long-term continuous operation, the Christie CDA3 features high quality components, including extra large capacitors and inductors, automatic clip limiting circuitry and DC voltage protection with LED status indicators to prevent damage to speakers.



Specifications		
Rated power	bridge 4 ohms	• 3150W @ 1kHz 1% T.H.D.
	bridge 8 ohms	• 1770W @ 1kHz 1% T.H.D.
	2 x 2 ohms	• 1575W per channel @ 1 kHz 1% T.H.D. both channels driven
	2 x 4 ohms	• 870W per channel @ 1 kHz at <0.1% T.H.D. both channels driven
	2 x 8 ohms	• 450W per channel @ 1 kHz at <0.1% T.H.D. both channels driven
	1 x 2 ohms	• 1710W @ 1kHz at <0.1% T.H.D.
	1 x 4 ohms	• 950W @ 1kHz at <0.1% T.H.D.
	1 x 8 ohms	• 475W @ 1kHz at <0.1% T.H.D.
Minimum load impedance	• 2 ohms	
Maximum RMS voltage swing	• 71V	
Frequency response	• 20Hz-60kHz; -0.2dB, -3dB @ 1W	
T.H.D.	2 x 2 ohms	• <0.1% @ 1400W per channel from 20Hz-4kHz, decreasing to 1200W @ 20kHz
	2 x 4 ohms	• <0.1% @ 850W per channel from 20Hz-20kHz
	2 x 8 ohms	• <0.1% @ 435W per channel from 20Hz-20kHz
Input CMRR	• >-76dB @ 1kHz	
Voltage gain	• x75 (+37dB)	
Crossover	• 100Hz switchable 2nd order high pass and 3rd order low pass per channel	
Crosstalk	• >-76dB @ 1kHz at 100W power @ 4 ohms	
Hum and noise	• >-103dB, "A" weighted referenced to rated power @ 4 ohms	
Slew rate	• >12V/μs	
Damping factor (8 ohms)	• >255:1 @ 20Hz-1kHz @ 8 ohms	
Phase response	• +20 to -70° from 20Hz-20kHz	
Input sensitivity	• 0.785V ±3% for 1kHz 4 ohm rated power • 0.780V ±3% for 1kHz 2 ohm rated power	
Input impedance	• 15k ohms balanced • 7.5k ohms unbalanced.	
Current draw	@ 1/8 power	• 960W @ 2 ohms • 612W @ 4 ohms • 396W @ 8 ohms
	@ 1/3 power	• 2064W @ 2 ohms • 1212W @ 4 ohms • 739W @ 8 ohms
Cooling	• Temperature dependent variable speed 80mm DC fan	
Controls	• 2 front panel attenuators • Crossover select switch for H.P.F, Normal and L.P.F.	
	• Input mode switch for Stereo, Bridge and Parallel	
Indicator LEDs	• 2 DDT (ACL clip limiting) • 2 signal presence • 2 active status • 2 temp • 2 DC protect	
Protection	• Thermal • DC • Subsonic • Incorrect loads • Under and over voltage	
Connectors	inputs	• Neutrik Dual Combi 1/4" XLR
	outputs	• Three Neutrik Speakon connectors for two channels plus common bridge
Construction	• 18 ga. galvanized steel	
Dimensions	• (LxWxH) 10.5 x 19 x 3.5" (266 x 482 x 89mm) behind front panel + 0.6" for handle • 2 RU mounting	
Net weight	• 11.5lbs (5.21kg) ¹	
Gross weight	• 13.9lbs (6.30kg)	
Warranty	• Limited three year warranty	

Rated power readings made with BW: <10Hz to 22kHz. All power measurements made at 120 VAC.
2 ohm power is time limited by circuit breaker.
Input power requirements: 120 VAC, 60Hz, 7.5A.

¹ Net weight does not include power cord.

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