

Power Amplifier - C Series

Technical data sheet

C Series

Two-channel power amplifiers for fixed install



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C1300FDi

DSP 2 x 650 w power amplifier for fixed install applications



Scan for more info

C1800FDi

DSP 2 x 950 w power amplifier for fixed install applications



Scan for more info

C2800FDi

DSP 2 x 1400 w power amplifier for fixed install applications



Scan for more info

C3600FDi

DSP 2 x 1800 w power amplifier for fixed install applications

Dynacord's C Series power amplifiers are designed for permanent installation applications, to provide background or live music in venue including bars, churches, restaurants, sports facilities, and performing arts centers.

C Series power amplifiers also feature an exciting new industrial design. Equipped with an extremely robust power supply and a powerful, linear amp design, flawless operation is guaranteed – even in the most demanding environments. A sophisticated protection circuitry ensures safe, reliable operation under all conditions. Four different models per series are available, with a total output power ranging from 1300 W to 3600 W at 4 ohms.

All models are also suitable for direct drive applications with 70V and/or 100V speaker lines, providing high flexibility for a variety of install scenarios. In addition, the amplifiers feature Euroblock connectors for convenient wiring, remote power-on delay, and GPIOs to interface with third-party controls. The efficient standby power mode reduces running costs and power consumption by up to 90%, leading to a very low total cost of ownership.

Like all Dynacord amplifiers, the C Series also offers high quality components and truly professional processing power and performance characteristics. Their engineering and applied technologies enable exceptional sound quality with plenty of headroom. SONICUE Sound System Software supports C Series, elevating them to the top league of professional amplifiers. The feature-rich onboard DSP gets a boost under SONICUE with 10 band PEQs and a dedicated array processing section. C Series are also equipped with FIR drive, a premium feature you find usually only with tour grade amplifiers, yielding a level of performance unheard of at this price point.

Features

- SONICUE provides enhanced DSP functionality to 10-band PEQs and a dedicated array processing section
- Rock solid amplifier technology engineered in Germany
- Extremely powerful, proven audio performance
- Low and high impedance outputs and remote GPIO control
- Highly efficient standby power mode reduces running costs and power consumption up to 90%.
- Sophisticated protection circuitry always protects the amplifiers and connected loudspeakers
- High-performance, bulletproof voltage handling
- Advanced FIR drive to optimize original factory loudspeaker settings yielding a level of unparalleled performance

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Models	C1300FDi	C1800FDi	C2800FDi	C3600FDi
	DSP 2 x 650 w power amplifier for fixed install applications	DSP 2 x 950 w power amplifier for fixed install applications	DSP 2 x 1400 w power amplifier for fixed install applications	DSP 2 x 1800 w power amplifier for fixed install applications
Maximum Output Power, Single Channel	2Ω=1100W; 2.6Ω= 950W; 4Ω= 660W; 8Ω= 350W (Load Impedance) High impedance = 70V Operation = 1 x 625W (Bridge Mode)	2Ω=1600W; 2.6Ω= 1300W; 4Ω= 950W 8Ω= 480W	2Ω= 2300W; 2.7Ω= 2000W; 4Ω= 1400W; 8Ω= 700W;	2Ω= 3200W; 2.7Ω= 2700W; 4Ω= 1800W; 8Ω= 950W
Maximum Output Power, Dual Channel	2Ω=1000W; 2.6Ω= 850W; 4Ω= 600W; 8Ω= 320W (Load Impedance)	Load Impedance= 2Ω=1400W; 2.6Ω=1200W; 4Ω=850W; 8Ω=450W; High Impedance= 70V Operation=2x 2500W (-1.5 dB);	Load Impedance= 2Ω=2200W; 2.7Ω=1800W; 4Ω=1300W; 8Ω=650W; High Impedance= 70V Operation=2x 1250W; 100V Operation=2x 2500W (-3.0 dB)	Load Impedance= 2Ω=3000W; 2.7Ω=2500W; 4Ω=1700W; 8Ω=900W; 100 V Operation=2 x 2500 W
Maximum Output Power, Bridged	High Impedance= 2Ω & 2.6Ω=1x 600W; Load Impedance= 4Ω=2000W; 8Ω=1200W;	Load Impedance= 4Ω=2800W; 8Ω=1700W; 100V Operation=1x 1250W	Load Impedance= 4Ω=4400W; 8Ω=2600W; High Impedance= Not recommended	Load Impedance= 4Ω=6000 W; 8Ω=3400 W; High Impedance= Not Recommended
Maximum RMS Voltage Swing, THD = 1%, 1kHz	55.3V	65.1V	78.8V	90.6V
Voltage Gain ref.1kHz			32.0dB	
IMD-SMPTE, 60 Hz, 7 kHz			< 0.1%	
DIM 30			< 0.05%	
Maximum Input Level			+21 dBu	
Crosstalk			< -80dB	
Frequency Response			10 Hz to 21 kHz (±1 dB)	
Input Impedance, active balanced			20kΩ	
Signal-to-Noise Ratio (A-weighted)	>104dB	>105dB	>107dB	>109dB
Output Noise , A-weighted			< -68dBu	
Output Stage Topology	Class AB	Class AB	Class H	Class H
Power Requirement	240 V, 230 V, 120 V or 100 V; 50 Hz to 60 Hz (factory configured)			
Power Consumption	550 W	700W	700W	850 W
Protection	Audio limiters, high temperature, DC, HF, Back-EMF, Peak current limiters, Inrush current limiters, Turn on delay			
Cooling	Front-to-rear, 3-stage-fans			
Safety Class	I			
Height x Width x Depth	3.46" (88mm) x 19.02" (483mm) x 18.2" (462.4mm)			
Weight Net	28.44lbs (12.9kg)	33.51lbs (15.2kg)	35.71lbs (16.2kg)	40.12lbs (18.2kg)
Signal Processing	FIR filters, audio limiters, output and array** delay, 10-band** user PEQ, 5-band array PEQ** per channel, load impedance			
Operating Temperature Range	+5°C to +40°C (40°F to +105°F)			
Remote control	SONICUE sound system software (requires firmware 2.0)			
High Impedance Operation	70V (in bridged mode)	70 V (dual channel), 100 V (bridged)	70 V, 100 V (dual channel & bridged)	70V Operation & 100V Operation
Remote Power ON/GPIO	Power remote via switch, delay time selectable Floating relay contacts (show protect mode) Inputs for preset selection	Power remote via switch, delay time selectable Floating relay contacts (show protect mode) Inputs for preset selection	Power remote via switch, delay time selectable Floating relay contacts (show protect mode) Inputs for preset selection	
Direct Drive Load Capability	Dual Channel: Not Available Bridge Mode 70V Operatoin: 1 x 625 w (0.0 dB) Bridge Mode 100V Operation: Not Available	Dual Channel 70V Operation: 2 x 1250 W (-1.5 dB) Dual Channel 100V Operation: Not available Bridge Mode 70V Operation: Not recommended Bridge Mode 100V Operation: 2 x 1250 W (-1.5 dB)	Dual Channel 70V Operation: 2 x 1250 W (0.0 dB) Dual Channel 100V Operation: 2 x 2500 W (-3.0 dB) Bridge Mode 70V Operation: Not recommended Bridge Mode 100V Operation: 1 x 1250 W (0.0 dB)	Dual Channel 70V Operation: Not recommended Dual Channel 100V Operation: 2 x 2500 W (-1.5 dB) Bridge Mode: Not recommended
Total Harmonic Distortion	< 0.05%			