



Power Amplifier Two-channel

CF-series

CF900 CF1200 CF1800 CF2400



- Bipolar Output Transistors
 - H Class Topology (AB class for CF900)
 - Switching Power Supply
 - Forced Cooling
 - Dust Filter
 - 2U Height
 - Input Level Controls
 - Signal Indicators
 - Clip and Alarm Indicators
 - Mode Switch
 - Stereo - Mono - Bridge
 - Switchable High Pass Filter (45 Hz, 24 dB/octave)
 - Built-in Crossover
 - Switchable Line Outputs
- Optional input section with input Sensitivity Switch
 - Detachable Power Cord
 - XLR Input Connectors
 - SpeakON Output Connectors
 - 2-stage Overload Protection
 - Short Circuit Protection
 - 2-stage Thermal Protection
 - Optoelectronic Clip Limiter
 - Triac DC Speaker Protect
 - High Frequency Speaker Protection
 - Soft Signal Start

CF-Series amplifiers are ideal for professional entertainers, who require maximum performance and portability on a limited budget.

CF-Series amplifiers are based on H class topology (AB class for **CF900**). This topology provides higher efficiency and less heat generation compared with traditional class AB circuitry and is a good compromise between high reliability, reduced heat generation, good sound quality, and moderate cost.

The amplifiers use forced cooling system separate for each channels. The cooling intensity changes smoothly depending on the output stage temperature and ensures the efficient operation of the amplifier at high ambient temperatures.

The amplifier has a low weight due to the use of switching power supply.

CF-Series amplifiers are equipped with crossover, that allows to create a subwoofer-satellite configuration without using external signal processing devices. Factory crossover point is 125 Hz and can be changed by replacing plug-in circuit boards, located on the input block. The frequency band of each channel is individually selectable via switches, located on the rear panel.

Line outputs are connected parallel to the line inputs in the THRU position of the Line Output switches. Also processed signal after crossover can be send to the line output (SUB and TOP switch positions).

When the amplifier is working with external signal processing devices, input section with input sensitivity switches can be set instead of the input section with crossover.

Switchable high-pass filter (45 Hz, 24 dB/octave) improves the reliability of the speaker by removing from the signal low frequency components (lower frequency limit of the loudspeaker), which are not reproduced by speakers and only cause useless «bumpy» cones.

Amplifiers are designed to work with 4 Ohms load impedance. The most powerful model of the **CF-series** also has a version (**CF2400-2**), designed for stable operation with 2 Ohms load impedance.

To protect the amplifier from ingress of dust and foreign objects amplifiers have a dust filter made of polyurethane foam. The filter is located under the easily removable front panel. Due to its structure, the filter material allows repeated washing and flushing. For cleaning the filter it is enough to remove the 4 fixing screws.

The amplifier is equipped with a full set of modern protection systems. These include short circuit protection, thermal protection, DC and high frequency speaker protections.

Model	CF900	CF1200	CF1800	CF2400	CF2400-2
Output Power (2 Ohms)	—	—	—	—	2 x 1200 B _T
(4 Ohms)	2 x 450 W	2 x 600 W	2 x 900 W	2 x 1200 W	2 x 700 W
(8 Ohms)	2 x 280 W	2 x 330 W	2 x 500 W	2 x 700 W	2 x 380 W
(Bridge, 4 Ohms)	—	—	—	—	2000 W
(Bridge, 8 Ohms)	900 W	1200 W	1450 W	2000 W	1400 W
Frequency Response	20 Hz – 20 kHz (±0.2 dB, P _{nom.}) / 10 Hz – 60 kHz (±1 dB, 1 W)				
Total Harmonic Distortion	0.003% (1 kHz) / 0.02% (20 Hz – 20 kHz)				
Slew Rate	40 V/μs (channel) / 80 V/μs (bridge)				
Damping Factor	400 (1 kHz, 8 Ohms)				
Crosstalk	60 dB (1 kHz)				
Signal-to-Noise Ratio	100 dB (unweighted)				
Sensitivity	0.775 V				
Input Impedance	10 kOhms (balanced)				
Crossover Frequency	125 Hz (12 dB/octave)				
High-pass Filter Cutoff Frequency	45 Hz (24 dB /octave)				
Power Requirements	~230 V AC, 50/60 Hz				
Weight	8.5 kg			9 kg	
Height	2U				
Depth in Rack	324 mm				
Dimensions	482 mm (W) x 96 mm (H) x 362 mm (D)				

