



Power Amplifiers Two-channel

CF-series

CF500**CF700**

MOSFET Output Transistors

- AB Class Topology
- Switching Power Supply
- Dust Filter
- Forced Cooling
- 2U Height
- Input Level Controls
- Illuminated Front Panel
- Signal Indicators
- Clip and Alarm Indicators
- Mode Switch
- Stereo - Mono - Bridge
- Switchable High Pass Filter (45 Hz, 24 dB/octave)
- Built-in Crossover
- Detachable Power Cord
- XLR Input Connectors
- SpeakON Output Connectors
- 2-stage Overload Protection
- Short Circuit Protection
- Thermal Protection
- Clip Limiter
- Electronically DC Protect (switch-off power supply)
- 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 a traditional, well-proven AB class topology. This topology is well suited for low-power amplifiers, and is a good compromise between good sound quality, low cost and heat generation.

The amplifiers use forced cooling system common to both channels, based on one (in **CF500**) or two (in **CF700**) fans. 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 125Hz 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.

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.

CF-Series, except 4Ohms models, also includes models designed for only 8Ohms loads. This allows the user to get the necessary power for less money. To obtain the necessary power at 8 Ohms (this is an impedance of most popular loudspeakers with the power of 250-350 W), 4 Ohms amplifier should be twice more power.

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	CF500-4cr	CF500-8cr	CF700-4cr	CF700-8cr
Output Power (4 Ohms)	2 x 250 W	—	2 x 350 W	—
(8 Ohms)	2 x 160 W	2 x 250 W	2 x 220 W	2 x 350 W
(bridge, 8 Ohms)	450 W	—	600W	—
(bridge, 16 Ohms)	290 W	450 W	390 W	600 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	6.5 kg			
Height	2U			
Depth in Rack	324 mm			
Dimensions	482 mm (W) x 96 mm (H) x 362 mm (D)			

