



Power Amplifiers Two-channel

DF-series

DF1000-8**DF1400****DF2000****DF3200**

- D Class Topology
-
- Switching Power Supply
-
- Power Factor Corrector
(only for DF1000-8 and DF2000)
-
- Forced Cooling
-
- Dust Filter
-
- 2U Height
-
- Input Level Controls
-
- Signal Indicators
-
- Clip and Alarm Indicators
-
- Thermal Indicator
-
- Mode Switch
Stereo- Mono - Bridge
(DF3200 - only Stereo-Mono)
-
- Switchable High Pass Filter
(45 Hz, 24 dB/octave)
-
- Built-in Crossovers
-
- Switchable Line Outputs
-
- Optional Input Section with Input
Sensitivity Switch
-
- Detachable Power Cord
-
- XLR Input Connectors
-
- SpeakON Output Connectors
-
- Short Circuit Protection
-
- 2-stage Thermal Protection
-
- Optoelectronic Clip Limiter
-
- Triak DC Speaker Protect
-
- High Frequency Speaker Protection
-
- Soft Signal Start

DF-Series are modern class D amplifiers for professional entertainers, who require maximum performance and sound quality on a limited budget.

DF-Series amplifiers are based on a modern, high-performance D class topology. This topology provides high efficiency, low heat generation, large output power and together with a switching power supply – light weight and small dimensions. At the same time, the high switching frequency of the output stage provides sound quality not worse than the best analog amplifiers.

The amplifiers use forced cooling system common to all channels. The airflow direction is front to back. The cooling intensity changes smoothly depending on the output stage temperature, and ensures the efficient operation of the amplifier at high ambient temperatures.

DF-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.

DF-Series, except 4 Ohms models, also includes models designed for only 8 Ohms loads. This allows the user to get the necessary power for less money. To obtain the necessary power at 8 Ohms – 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	DF1000-8 MkII	DF1400 MkII	DF2000 MkII	DF3200 MkII
Output Power (4 Ohms)	—	2 x 700 W	2 x 1000 W	2 x 1600 W
(8 Ohms)	2 x 500 W	2 x 380 W	2 x 500 W	2 x 1000 W
(bridge, 8 Ohms)	—	1400 W	1900 W	—
(bridge, 16 Ohms)	960 W	760 W	1000 W	—
Frequency Response	20 Hz – 20 kHz (± 0.5 dB, P_{nom}) / 10 Hz – 30 kHz (± 1 dB, 1 W)			
Total Harmonic Distortion	0.05 % (20 Hz – 20 kHz)			
Slew Rate	20 V/ μ s (channel) / 40 V/ μ s (bridge)			
Damping Factor	over 200 (1 kHz, 8 Ohms)			
Crosstalk	60 dB (1 kHz)			
Signal-to-Noise Ratio	98 dB (unweighted)			
Input Impedance	10 kOhms (balanced)			
Crossover Frequency	125 Hz (12 dB/octave)			
Sensitivity	0.775 V			
High-pass Filter Cutoff Frequency	45 Hz (24 dB /octave)			
Power Requirements	~160-250 V, 50/60 Hz	~230 V, 50/60 Hz	~160-250 V, 50/60 Hz	~230 V, 50/60 Hz
Weight	6.5 kg	6.5 kg	6.5 kg	7.7 kg
Height	2U			
Depth in Rack	324 mm			
Dimensions	482 mm (W) x 96 mm (H) x 362 mm (D)			

