Power amplifier
Four-channel

DF-series
with DSP

DF1404 DSP **DF1408 DSP** **DF2008 DSP** **DF2804 DSP**

D Class Topology
•
Built-in DSP
•
8 Factory Presets
•
DIP Preset Switch
•
USB Interface for DSP Setting
•
EQ, Filtering, Delay and Limiter DSP Functions
•
Overload Protection
•
Short Circuit Protection
•
Thermal Protect
•
Triak DC Protect
•
Input Level Controls
•
Two XLR Input Connectors
•
Two XLR Line Output Connectors (parallel to input)
•
Four SpeakON Output Connectors
•
Signal Indicators
•
Clip and Alarm Indicators
•
Thermal Indicator
•
Switching Power Supply
•
Power Factor Corrector (only for DF2008 DSP)
•
Forced Cooling
•
Dust Filter
•
Detachable Power Cord
•
2U Height

DF-series with **DSP** are modern amplifiers for professional entertainers, who require maximum performance and sound quality on a limited budget. Amplifiers are designed for application in PA systems with high requirements for precise tuning of the parameters, but without the need for operative change.

Built-in **DSP** accurately handles the audio signal due to its functions of equalization, filtering, delay and limiter. Processor has 2 inputs and 4 outputs and provides free signal routing from any input to any output.

DSP enables users to choose between eight factory preset settings. Any of presets can be modified, using a computer connected via **USB** interface (software – **SigmaStudio** by **Analog Devices**, **Inc.**).

DF-series with **DSP** 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.

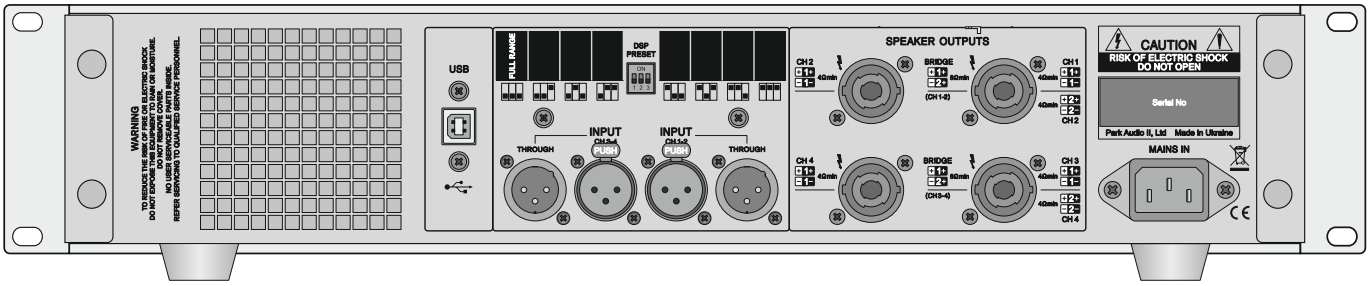
DF - series with **DSP**, except 4 Ohms models, also includes models, designed for only 8 Ohms loads. This allows the user to get the necessary power for less money. To obtain the necessary power at 8 Ohms (this is a impedance of most popular loudspeakers with the power of 250-500 W), 4 Ohms amplifier 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	DF1404 DSP	DF1408 DSP	DF2008 DSP PFC	DF2804 DSP
Output Power (4 Ohms)	**4 x 350 W**	—	—	**4 x 700 W**
(8 Ohms)	**4 x 200 W**	**4 x 350 W**	**4 x 500 W**	**4 x 380 W**
(bridge, 8 Ohms)	**2 x 700 W**	—	—	**2 x 1400 W**
(bridge, 16 Ohms)	**2 x 350 W**	**2 x 700 W**	**2 x 1000 W**	**2 x 760 W**
Frequency Response	**20 Hz – 20 kHz** (±0.5dB ,Pnom .)			
Total Harmonic Distortion	**0.05 %** (20Hz – 20kHz)			
Slew Rate	**20 V/µs** (channel) / **40 V/µs** (bridge)			
Damping Factor	**over 200** (1kHz, 8 Ohms)			
Crosstalk	**60 dB** (1kHz)			
Signal-to-Noise Ratio	**95 dB** (unweighted)			
Sensitivity	**0.775 V**			
Input Impedance	**10 kOhms** (balanced)			
Maximum Input Level	**2.45 V** (+10 dBu)			
Number of Presets*	**8**			
Built-in DSP	**Sampling rate – 48 kHz, DAC/ADC – 24-bit, internal processing – 56-bit, 2 inputs, 4 outputs**			
Power Requirements	**~230 V, 50/60 Hz**	**~230 V, 50/60 Hz**	**~160-250 V, 50/60 Hz**	**~230 V, 50/60 Hz**
Weight	**6.8 kg**	**6.8 kg**	**7.4 kg**	**7.6 kg**
Height	**2U**			
Depth in Rack	**324 mm**			
Dimensions	**482 mm** (W) x **96 mm** (H) x **362 mm** (D)			

* Detailed factory DSP presets description can be found in the Download sections on our site www.parkaudio.ua.



Park Audio II, Ltd Ukraine, Vinnytsia, tel. +38(0432) 655-366 e-mail: park@parkaudio.ua
+38 095 583-77-90 www.parkaudio.ua