



Two Channel Power Amplifiers

DF series with DSP

DF1400 DSP DF2000 DSP DF3200 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
(post **DSP**)

- Two **SpeakON** Output Connectors

- Signal Indicators

- Clip and Alarm Indicators

- Thermal Indicator

- Switching Power Supply

- Power Factor Corrector
(only for **DF2000 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, which allows you to send signals to the power amplifier and line outputs with different processing.

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 both 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.

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	DF1400 DSP	DF2000 DSP	DF3200 DSP
Output Power (4 Ohms)	2 x 700 W	2 x 1000 W	2 x 1600 W
(8 Ohms)	2 x 380 W	2 x 500 W	2 x 1000 W
(bridge, 8 Ohms)	1400 W	1900 W	—
(bridge, 16 Ohms)	760 W	1000 W	—
Frequency Response	20 Hz – 20 kHz (± 0.5 dB, P _{nom} .)		
Total Harmonic Distortion	0.05 % (20Hz – 20kHz)		
Slew Rate	20 V/ μ s (channel) / 40 V/ μ s (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 (+10dBu)		
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	~160-250 V, 50/60 Hz	~230 V, 50/60 Hz
Weight	6.8 kg	7.4 kg	8 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.

