



Power Amplifier Two-channel

GS series

GS4D**GS5D****GS6D****GS7D****GS8D**

Top Class Four-channel **DSP**
from **DFM audio**, two channels for
amplifier, two channels for Line

OUT

•
Two Analog Input,
One **AES** Input

•
Two **Ethernet** Connectors for
Amplifier Control, Built-in Router

•
THRU-post DSP Line Output

•
TD Class Amplifier

•
Two Separate Switching
Power Supply

•
2-Stage Overload Protection

•
Short Circuit Protection

•
Thermal Protection

•
DC Speaker Protection

•
High Frequency Speaker
Protection

•
High Mains Voltage Protection
(included 400V mains)

•
Clip Limiter

•
Local Control from the Front Panel

•
LCD Indicator on the Front Panel

•
MUTE Buttons

•
Signal, Clip and Limiter Indicators

•
Forced Cooling

•
Easily Removable Dust Filters

•
Detachable Power Cord
(**PowerCon**)

•
SpeakON Output Connectors

The **GS** Series is designed for the most demanding live audio users, whether in touring rigs or fixed installations.

For those users, who need a combination of high performance amplifier with high-end integrated **DSP**, the **GSd** amplifier are the ideal choice, offering high power, reliability and precision signal processing.

The amplifier is equipped with a flexible and powerful high-end **DSP** from **DFM audio**, Germany. The close integration of processing and amplification allows the **DSP** to monitor and better respond to amplifier behavior, making dynamics processing far more accurate and effective than that typically achieved with separate components. The onboard **DSP** offers four channels of crossover filters, parametric **EQ**, **FIR** filter and alignment delay – everything needed to optimize a loudspeaker system.

The processed signal may be send via LINE OUT to another amplifier without DSP.

The processor settings can be controlled via **Ethernet** interface. Two **Ethernet** connectors and an integrated router allow you to connect many amplifiers in a chain without using any additional equipment.

For use in large installations, the processor has the tools for group control of many amplifiers simultaneously. The amplifier can be supplied with pre-formed library of passive speakers.

GS Series amplifiers are based on TD class topology. This topology almost uncompromising combines the best features of switching and analog amplifiers - high efficiency of switching and high quality sound of analog amplifiers.

GS Series amplifiers have switching power supply. Each channel is powered from separate power supply. This allows to continue working in case of failure of one of them.

The amplifiers use separate for each channels oversized forced cooling system. The amplifiers can stable work on 2 Ohms load resistance at ambient temperatures up to 50 degrees. The cooling system uses 4 powerful fans, the intensity of which changes smoothly depending on the output stage temperature.

Specifically for use in hard touring conditions amplifiers are equipped with reliable protection against high mains voltage. Even the connection to the ~400 V mains will not damage the amplifier!

To protect the amplifier from ingress of dust and foreign objects, amplifiers have a dust filter made of polyurethane foam. Due to its structure, the filter material allows repeated washing and flushing. The filter is easily installed and removed without any additional tools.

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. All protection systems are monitored by the control processor, built into each channel of the amplifier.

Model	GS4d	GS5d	GS6d	GS7d	GS8d
Output Power (2 Ohms)	2 x 2000 W	2 x 2500 W	2 x 3000 W	2 x 3500 W	—
(4 Ohms)	2 x 1500 W	2 x 2000 W	2 x 2300 W	2 x 3000 W	2 x 4000 W
(8 Ohms)	—	—	—	—	2 x 2200 W
(Bridge, 4 Ohms)	3600 W	4500 W	5400 W	6300 W	—
(Bridge, 8 Ohms)	2700 W	3600 W	4140 W	5400 W	7200 W
Peak Output Voltage	135 V	150 V	165 V	180 V	210 V
Frequency Response	20 Hz – 20 kHz (±0.2 dB, Pnom.)				
Total Harmonic Distortion	0.05 % (20 Hz – 20 kHz)				
Slew Rate	60 V/μs (channel) / 120 V/μs (bridge)				
Damping Factor	800 (1 kHz, 8 Ohms)				
Crosstalk	60 dB (1 kHz)				
Signal-to-Noise Ratio	100 dB (unweighted)				
Gain	35 dB				
Input Impedance	10 kOhms (balanced)				
Power Requirements	~230 V, 50/60 Hz				
Weight	13.5 kg	13.7 kg	13.9 kg	14.1 kg	14.3 kg
Height	2U				
Depth in Rack	460 mm				
Dimensions	482 mm (W) x 96 mm (H) x 468 mm (D)				
DSP Functions	Crossovers, 20 PEQ per channel, delay up to 1.5 sec/channel, RMS and Peak Limiters, two banks of FIR filter (500 tap each) per channel, speaker library (96 speaker), 92 user presets				
DSP Parameters	SHARC DSP, 96 kHz sampling rate / 40 bit floating point ADC: 120 dB SNR, -100 dB THD/N +18 dBu Input Level DAC: 120 dB SNR, -104 dB THD/N +18 dBu Output Level				

