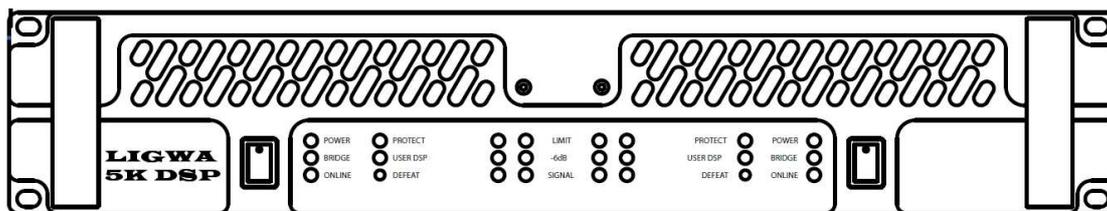


LIGWA 5K-DSP 4 CHANNEL AMPLIFIER



Net Weight	9kg (20lbs)
Dimensions	88mm (2U) x 482mm (19") x 360mm (14") (behind rack ears)
Amplifier Type	Class D
Power Output	1250w/ch @ 2ohms, 800w/ch @ 4ohms, 450w @ 8 ohms (RMS program, all ch. driven, 20Hz-20kHz); Bridged pair: 2500W @ 4ohms, 1600W @ 8 ohms, 900W @ 16 ohms
Connectors	Mains (per 5K-DSP): Neutrik 'Powercon', Audio input & link (per channel): 3 pin XLR, Output (per channel): Neutrik NL4 'Speakon', Network (input and link): RJ45, Aux facilities: RJ45
Indicators	per channel: Sig, Limit -6dB, Limit per channel pair: Power, Protect, Bridge, User DSP defeat
Frequency Response	20Hz - 20kHz±0.5dB (4 ohm load)
Options	Rear rack supports

The 5K-DSP is a 4-channel power amplifier integrating lightweight power supplies, high power sonically transparent Class D amplifiers, full system monitoring (including 'end of line') and a fully featured USB or network controlled 24 bit 96kHz DSP processing platform provided onboard as standard.

The 5K-DSP contains four 1250W channels of class D amplification, providing significant benefits in efficiency and power density over conventional amplifier types. The design has produced a short signal path which directly results in clean, fast amplification that is so efficient that even though capable of a total power output of 5000W, the variable-speed fans only run at high speed under extreme conditions.

The advantage of switching technology have been carried through to the extremely efficient lightweight power supply evolving in harmony with the amplifier section and therefore achieves an optimum match between the two. Intelligent detection of the mains supply voltage makes the unit suitable for global operation without requiring any reconfiguration. Each pair of channels contains a complete 96 kHz digital loudspeaker management and control subsystem, containing an extremely powerful state-of-the-art floating point SHARC based DSP engine. A simple PC connection allows customers to manipulate DSP parameters to optimise the performance and develop user settings - stored in the 5K-DSP so a PC is not necessary for operation - for particular applications.