



MOOSE
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PROUDLY DEVELOPED AND
MANUFACTURED IN PORTUGAL

D8K

Digital power amplifier
6 channels, Class D
touch screen DSP



Presentation:

The new SIRIUS amp represents the next generation of powerful amplifiers designed to meet the specialized needs of sound contractors and rental companies offering high dynamic range, low distortion, high thermal capacity, proven reliability and ease of use for touring sound applications. The D8K has two dedicated high power channels (2500W each) and four mid power channels (800W each) turning this asymmetrical power distribution into the perfect match for the power requirements of typical multi-way loudspeakers system. Coupled to the class D modules this D8K offers a touch screen DSP that can be either adjusted by software (USB port) or directly through the front panel. This fully programmable DSP allows adjusting parameters such as crossover and parametric EQ filters, limiting, gain and alignment delay eliminating the need for additional outboard loudspeaker processors. Additionally other features such as 3p XLR signal link to connect another amplifier or 3p XLR sub output signal to connect active subs can be found on the rear panel. The amplifier protection scheme is one of the most comprehensive in the pro audio industry and all relevant protection features such as over current and short circuit protection, thermal protection, DC output protection and HF protection have been implemented individually for the SMPS as well as for each amplifier channel ensuring high reliability and to guarantee the use of the speaker system in perfect sound and safe operation. The power supply technology integrated in the amplifier provides universal mains operation for 120 V and 230 V with PFC, eliminating the need for market specific self-powered loudspeakers and related reliability issues. The power supply is regulated delivering consistent power world-wide and the enclosure is cooled by variable speed fans with side-to-back airflow. To work with D8K there is a Power distribution box - PD40 - available featuring 32A input CEE connector + 2x 32A CEE output connector and 2x 16A shuko sockets for other equipment. For protection, 2x 16A breakers.

Features:

- Professional and powerful class D amp
- High dynamic range and low distortion
- 2x 2500W / 4ohm high power channels
- 4x 800W / 4ohm mid power channels
- Fully programmable touch screen DSP
- Mute buttons on the front panel
- LED signal indicators on the front panel
- 2x SUB out to connect active subs
- Fully self-protected for SMPS and channels
- 85-264Vac Universal mains
- Solid construction for 19" 3U rack mounted

Other pictures:



D8K
Front view



D8K
Rear view



TOUR CASE
Perspective view



TOUR CASE
Rear view





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Technical specifications:

Acoustical

Type	Class D amplifier
Power rating @ 4ohm	2x 2500W + 4x 800W
Power rating @ 8ohm	2x 1500W + 4x 400W
Output Voltage	High power ch: 160Vp / 320 Vpp unloaded Mid power ch: 80Vp / 160 Vpp unloaded
Amplifier gain	High power ch: 32dB Mid power ch: 26dB
S/N Ratio	> 120dB (A-weighted, 20Hz - 20kHz, 8ohm load)
THD+N (typical)	< 0,05% (20Hz - 20kHz, 8ohm load, 3dB below rated power)
Frequency response	20Hz - 20kHz(+0/-0,25dB, 8ohm load, 3dB below rated power)
Damping factor	> 1000 (8ohm load, 1kHz and below)
Inputs	2x 3p female XLR
Outputs	2x 3p male XLR 2x 3p male XLR for active SUB 6x Speakon NL4®
Indicators	Signal and Mute per channel
Cooling	2x 80mm / 5V variable speed fan
DSP	Touch screen DSP, fully adjustable > 96KHz sampling frequency > 24 bit AD/DA converter > 32 bit DSP processor. > USB port available provided to be with PC. > Input channel with mute > 8 bands PEQ, polarity, delay (max delay time: 1s) > PEQ, gain set > Temperature testing controlled
Protections	Input limiter, short circuit, DC of output, under & over voltage, power stage overload, temperature prot. of transf. & heat-sinks
Power supply	UREC universal & regulated SMPS
Input voltage	85-268V ac Universal mains
AC Mains connector	Neutrik® powerCON, Power-in (blue) / Power-out (grey)

Physical

Construction	Rugged and solid steel construction, AL front panel
Dimensions	482x132x485mm - RACK 19" - 3U
Weight	12Kg

