

## DIGAM K SERIES

- Enhanced DIGAM technology for a superior audio fidelity
- Up to 12kW output on 1U size
- Interactive LCD display
- Worldwide power supply with PFC

**The new two channels Powersoft flagship**



DIGAM K Series is a new milestone of switch mode amplification providing incredible power in 1 rack unit with the lowest weight and highest efficiency. DIGAM K Series sonic performances set a new target for professional audio market. DIGAM K Series offer various power ratings in 3 models ranging from 2 x 2500 watts to 2 x 4000 watts/ch. @ 4  $\Omega$ , still maintaining the 1 unit size. DIGAM K Series has become the flagship of Powersoft's technologies, ranking in the "Top Class" amplification of the global audio market.

### Output Specifications\*

|            | 2 $\Omega$ dual | 4 $\Omega$ dual | 8 $\Omega$ dual | 4 $\Omega$ bridge | 8 $\Omega$ bridge | 16 $\Omega$ bridge |
|------------|-----------------|-----------------|-----------------|-------------------|-------------------|--------------------|
| <b>K10</b> | 6000 W          | 4000 W          | 2000 W          | 12000 W           | 8000 W            | 4000 W             |
| <b>K 8</b> | 4800 W          | 3000 W          | 1500 W          | 9600 W            | 6000 W            | 3000 W             |
| <b>K 6</b> | 3600 W          | 2500 W          | 1300 W          | 7200 W            | 5000 W            | 2600 W             |

\*EIAJ Test 1kHz 1%THD

## Features:

- Advanced switch-mode worldwide operating power supply technology for high performance and compact size
- Power Factor Correction (PFC) for extremely low mains consumption and extremely wide mains operating range
- Variable speed fan for low noise
- Inrush Limiter for low AC inrush current, removing the need for expensive power sequencers
- XLR female / 6.3mm Jack / Neutrik® style input connectors with link capability
- Built-in defeatable clip limiters for each channel
- LCD matrix interactive display
- Digital gain/attenuator control
- User selectable maximum output power for each channel
- User selectable maximum mains current draw
- Comprehensive user friendly front panel display menu
- Fully protected circuit design including Duffonsonic, high frequency, thermal overload and short circuit
- Temperature forecast with LCD traced historical behaviour
- Downloadable log file of functional fault events with time related trace
- Load impedance measurement / display for each channel
- Output power measurements / display for each channel
- Mains voltage and current measurements / display
- Defeatable gate selection for each channel
- Gain/sensitivity user selection capability
- Hardware monitor available for fast local diagnosis
- Fixed frequency switchmode output stage for high grade sound accuracy
- Compact size: all models only 1RU for reduced rack cost and space
- Light weight: all models only 1kg (26 pounds) for easy racking and shipping
- Built in Remote Control (RS 485 interface) for full diagnostic operational setting and system monitoring
- Smart Card settings, parameters and upgrades functionality
- Lockable set-up by user selectable access key code
- DSP option capability
- Ethernet option capability

## Audio Section:

**Channels:** 2  
**Bandwidth (1W, 8Ω):** 5Hz – 20 KHz ±0.2dB  
**SNR (20Hz-20kHz Aweighted):** >110dB (K10) >109dB (K8) >108dB (K6),  
**Distortion THD:** Max < 0.5% rdm 0.1W to fullpower (typically < 0.05%)  
**Intermodulation distortion DIM30:** Max < 0.5% rdm 0.1W to fullpower (typically < 0.05%)  
**Intermodulation distortion SMPTE:** Max < 0.5% rdm 0.1W to fullpower (typically < 0.05%)  
**Damping Factor (8Ω):** >5000 (20Hz-200Hz)  
**Crosstalk:**  
**Voltage Gain:** 26dB; 29dB; 32dB; 35dB user selectable  
**Maximum Input Level:** +25dB absolute maximum  
**Slew Rate (8Ω):** 50V/μs (input filter bypassed)

## Power Section:

**AC Line Voltages:** 95 – 265V (50/60Hz)  
**Power Factor cos(φ):** More than 0.95 rdm 500W to fullpower  
**Operating Environment Temperature:** 0°C / + 45° C  
**Consumption Average:** 2300 VA (K10) 1900 VA (K8) 1500 VA (K6)

## Input/Output:

**Input Connectors:** Balanced to ground, XLR female combo jack 6.3 mm  
**Input Impedance:** 10 kΩ each electronically balanced to ground  
**Output Connectors:** High current Neutrik® 4pole Speakon® connectors (pins 1+ 2+ paralleled, 1- 2- paralleled)

## Protections:

**DC protection:** protects against infasonic signals  
**VHF protection:** protects the loudspeakers against strong very high frequency non-musical signals above the audible range.  
**Thermal protection:** prevents the amplifier from being overheated. The protection indicators on the front panel are switched on as a warning, before the protection process is initiated.  
**AC protection:** shuts down the power supply if the line voltage is outside the operating voltage.  
**Clip limiter:** prevents severely clipped waveforms from reaching the loudspeakers, whilst maintaining full peak power.

## Controls/Indicators:

**Front Panel:** interactive LCD display, smart card, led bar indicator.

## Construction:

**External Dimensions:** Standard rack 19" – 1 unit (HxWxD) 44x482x455 mm  
**Weight:** 12 kg

## Accessories:

**Networking:** Built-in 485 serial connection remote control

## Main Applications:

Touring, Installations

