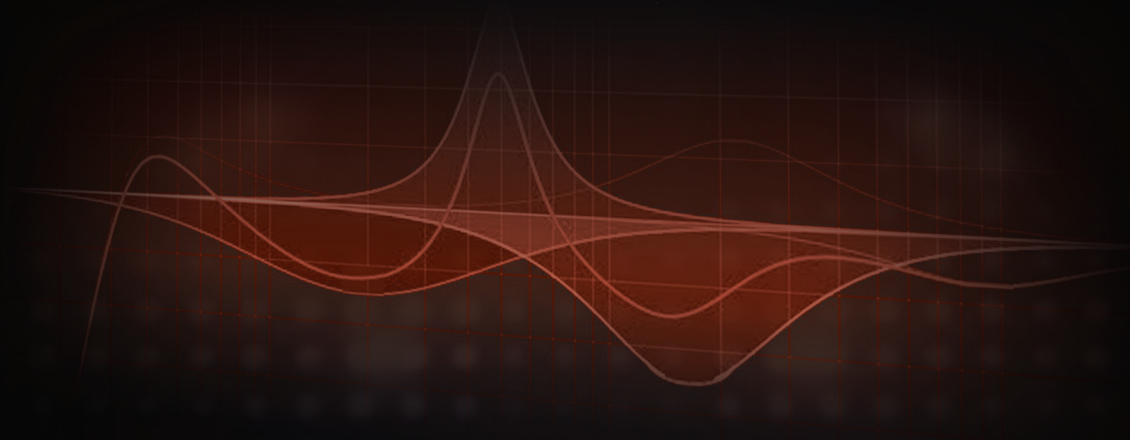




PKN Audio



HIGH POWER

PROFESSIONAL DIGITAL AMPLIFIERS

WWW.PKNAUDIO.COM



ULTIMATE NETWORKABLE PROFESSIONAL TOURING AMPLIFIER
WITH REMOTE CONTROL OVER ETHERNET AND DISPLAY.
USER CONFIGURABLE SETTINGS.



- HIGH OUTPUT POWER AND HIGH EFFICIENCY
- ADVANCED HIGH FREQUENCY SWITCHING TECHNOLOGY
- SMALL SIZE, LOW WEIGHT, IDEAL FOR TOURING APPLICATIONS
- NETWORKABLE AMPLIFIER OVER STANDARD ETHERNET
- AMPCONTROL SOFTWARE AND JAVA BASED CONTROL
- ALL FUNCTIONS CAN BE ACCESSIBLE BY REMOTE
- GRAPHICS LCD FOR EASY SETUP AND DIAGNOSTICS
- TWO JOG BUTTON FOR FAST NAVIGATING
- DIGITAL VOLUME AND INPUT SENSITIVITY CONTROL
- BUILT-IN PROGRAMMABLE LIMITER
- OUTPUT PEAK AND AVERAGE VOLTAGE,CURRENT MEASURING
- DISPLAYS ACTUAL LOAD IMPEDANCE
- EMBEDDED WEBSERVER FOR SET&VIEW PARAMETERS BY A WEB BROWSER
- FIVE USER PROFILES
- INTELLIGENT PROTECTIVE FUNCTIONS
- HIGH FREQUENCY RESONANAT POWER SUPPLY WITH ACTIVE PFC FUNCTION
- WIDE MAINS VOLTAGE OPERATION RANGE

Parameter	XE2500	XE4000	XE5002	XE6000	XE10000
Power requirements	160V - 270VAC, (50-60Hz)				
Max. Power Consumption	2600W	5500W	5650W	7900W	8000W
Soft starting	yes				
Power Supply	High frequency resonant includes active PFC				
Mains connection	Neutrik Powercon				
Working temperature range	0 - 40C				
Storage temperature range	-25C - 60C				
Output power @ 16 Ohms	2 x 320W	2 x 680W	2 x 490W	2 x 1000W	2x 1300W
Output power @ 8 Ohms	2 x 700W	2 x 1300W	2 x 980W	2 x 1900W	2x 2600W
Output power @ 4 Ohms	2 x 1300W	2 x 2100W	2 x 1800W	2 x 3650W	2x 5000W
Output power @ 2,6 Ohms	2 x 1900W	2 x 2000W	2 x 2600W	2 x 3000W	2x 3200W
Output power @ 2 Ohms	2 x 1500W	2 x 1800W	2 x 3200W	2 x 2200W	2x 3600W
Minimum load impedance	2 Ohms				
Frequency (+/- 3dB, 8 Ohms)	5 Hz - 20 kHz				
Slew rate	50V / us			60V / us	62V / us
Damping factor	>400	>500	>550	>600	>700
End Stages	High Frequency semi soft switched PWM in balanced configuration				
Output connections	Four pole Neutrik SPEAKON (1+2- in parallel, 1-2- in parallel)				
Signal to Noise ratio A-Weighted 20Hz - 20kHz	100 dB	102 dB	101dB	107 dB	105 dB
Nominal sensitivity for maximum output level (balanced)	1.4V (rms)	1.7V (rms)	1.5V (rms)	1.7V (rms)	1.9V (rms)
Input Impedance (Referred to ground)	10 KOhms + 10 KOhms (+/- 1%)				
Input terminals	Neutrik XLR				
Built in Limiter	Programmable limiter (1V / Step)				
Output level meter	LEDbar, status LEDs (AGR, Short, Temp, Protect, Ready)				
Display	Graphics LCD				
Control terminals	JOGS, buttons				
Volume control	Set by control JOG wheels or remote -95,5dB - 0dB (in 0,5 dB steps)				
Input sensitivity	-95,5db - 0dB (steps 0,5 dB)				
Limiter settings range	10 - 100V	10 - 155V	10 - 126V	10 - 170V	10 - 200V
User profiles	5 user profile				
Protections	Short circuit, Overload,Low impedance,Thermal, DC fault				
Cooling	Forced air cooling with regulated DC fans				
Direction of air flow	Front to rear				
Remote control	10/100 Mbps Ethernet				
Weight	8 Kgs	9 Kgs	9.1Kgs	9,5 Kgs	9,6 Kgs
External dimensions	19" rack 483 x 440 x 44mm (1RU)				

XD SERIES HIGH POWER

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**LIGHTWEIGHT POWERFUL TOURING AMPLIFIER
WITH ACTIVE POWER FACTOR CORRECTION
AND SEVERAL PROTECTIVE FUNCTIONS.**



- HIGH OUTPUT POWER
- SMALL SIZES, LOW WEIGHT (< 9KGS)
- EASY PORTABLE / IDEAL FOR TOURING APPLICATIONS
- INTELLIGENT PROTECTIVE FUNCTIONS
- BUILT-IN LIMITER
- FULL SWITCHING ENERGY CONVERSION

- EMBEDDED MICROCONTROLLER
- VERY HIGH POWER EFFICIENCY
- TWO LED BARS DISPLAY OUTPUT LEVELS
- RUGGED STEEL CHASSIS
- TWO KNOBS FOR LEVEL SETTINGS
- RESONANT POWER SUPPLY INCLUDES ACTIVE PFC

Parameter	XD2500	XD4000	XD5002	XD6000	XD10000
Power requirements	160V - 270VAC, (50-60Hz)				
Max. Power Consumption	2600W	5500W	5650W	7900W	8000W
Soft starting	yes				
Power Supply	High frequency resonant includes active PFC				
Mains connection	Neutrik Powercon				
Working temperature range	0 - 40C				
Storage temperature range	-25C - 60C				
Output power @ 16 Ohms	2 x 320W	2 x 680W	2 x 490W	2 x 1000W	2 x 1300W
Output power @ 8 Ohms	2 x 700W	2 x 1300W	2 x 980W	2 x 1900W	2 x 2600W
Output power @ 4 Ohms	2 x 1300W	2 x 2100W	2 x 1800W	2 x 3650W	2 x 5000W
Output power @ 2,6 Ohms	2 x 1900W	2 x 2000W	2 x 2600W	2 x 3000W	2 x 3200W
Output power @ 2 Ohms	2 x 1500W	2 x 1800W	2 x 3200W	2 x 2200W	2 x 3600W
Minimum load impedance	2 Ohms				
Frequency (+/- 3dB, 8 Ohms)	5 Hz - 20 kHz				
Slew rate	50V / us			60V / us	62V / us
Damping factor	>400	>500	>550	>600	>700
End Stages	High Frequency semi soft switched PWM in balanced configuration				
Output connections	Four pole Neutrik SPEAKON (1+2- in parallel, 1-2- in parallel)				
Signal to Noise ratio A-Weighted 20Hz - 20kHz	100 dB	102 dB	101dB	107 dB	105 dB
Nominal sensitivity for maximum output level (balanced)	1.4V (rms)	1.7V (rms)	1.5V (rms)	1.7V (rms)	1.9V (rms)
Input Impedance (Referred to ground)	10 KOhms + 10 KOhms (+/- 1%)				
Input terminals	Neutrik XLR				
Built in Limiter	yes				
Output level meter	LEDbar, status LEDs (AGR, Short, Temp, Protect, Ready)				
Protections	Short circuit, Overload, Low impedance, Thermal, DC fault				
Cooling	Forced air cooling with regulated DC fans				
Direction of air flow	Front to rear				
Weight	8 Kgs	9 Kgs	9.1Kgs	9,5 Kgs	9,6 Kgs
External dimensions	19" rack 483 x 440 x 44mm (1RU)				

XE-DSP SERIES HIGH POWER

WWW.PKNAUDIO.COM



EVERYTHING THAT WE LOVE IN THE XE SERIES, AND MUCH MORE!
AN ALL-IN-ONE SOLUTION
FOR ALL YOUR PROFESSIONAL AMPLIFIER NEEDS, DSP FEATURES
AND DIGITAL AUDIO OVER IP STREAMING, WITH AN EXTENSIVE,
AND COMPREHENSIVE CONTROLLER SOFTWARE.



- UP TO 96KHZ 32BIT DIGITAL SIGNAL PROCESSING
- HIGH QUALITY AKM A/D & D/A CONVERTERS
- MORE THAN A DOZEN FULLY CUSTOMIZABLE DSP FEATURE
- FIR FILTER FOR CUSTOM IMPULSE RESPONSE LOADING
- 2 ANALOG IN & OUTPUT + 2 DIGITAL IN & OUTPUT
- MATRIX SIGNAL ROUTING BETWEEN EVERY IN AND OUTPUT

- COMPLIANT WITH AES67, ST2110-30 AND RAVENNA STANDARDS
- LOSSLESS AUDIO QUALITY WITH ULTRA LOW LATENCY (MAX 5MS)
- CONTROL AND MONITOR MULTIPLE DEVICES IN ONE SOFTWARE
- EASY PRESET MANAGEMENT, IMPORT & EXPORT TO DSP AND PC
- PHYSICAL RELAY CIRCUIT, TO ENABLE OR BYPASS DSP

Parameter	XE2500 DSP	XE4000 DSP	XE5002 DSP	XE6000 DSP	XE10000 DSP
Power Requirements	160V - 270VAC, (50-60Hz)				
Max. Power Consumption	2600W	5500W	5650W	7900W	8000W
Working Temperature Range	0 - 40C				
Output Power @ 16 Ohms	2 x 320W	2 x 680W	2 x 490W	2 x 1000W	2x 1300W
Output Power @ 8 Ohms	2 x 700W	2 x 1300W	2 x 980W	2 x 1900W	2x 2600W
Output Power @ 4 Ohms	2 x 1300W	2 x 2100W	2 x 1800W	2 x 3650W	2x 5000W
Output Power @ 2,6 Ohms	2 x 1900W	2 x 2000W	2 x 2600W	2 x 3000W	2x 3200W
Output Power @ 2 Ohms	2 x 1500W	2 x 1800W	2 x 3200W	2 x 2200W	2x 3600W
Minimum Load Impedance	2 Ohms				
Frequency Response	5 Hz - 20 kHz (+/- 3dB, 8 Ohms)				
Slew Rate	50V / us			60V / us	62V / us
Damping Factor	>400	>500	>550	>600	>700
End Stages	High Frequency Semi-Soft Switched PWM in Balanced Configuration				
Output Connections	Four Pole Amphenol SPEAKON (1+2+ in parallel, 1-2- in parallel)				
"Signal to Noise Ratio A-Weighted 20Hz - 20kHz"	100 dB	102 dB	101dB	107 dB	105 dB
Nominal Sensitivity for Maximum Output Level (Balanced)	1.4V (rms)	1.7V (rms)	1.5V (rms)	1.7V (rms)	1.9V (rms)
DSP Features	HPF, LPF, PEQ, Delay, Phase Inversion, FIR Filter, Compressor, Limiter, Expander, Ducker, Noise Gate, Signal Generator, Feedback Suppression, Auto Mixer				
DSP Presets	Up to 20 Custom User Presets + 1 Factory Default				
DSP Sample Rate Bit Depth	48/96kHz 16/24/32Bit				
Digital Audio Stream Compliant	AES67 / ST2110-30 / Ravenna				
Digital Channels	2 Ch In / 2 Ch Out via Ethernet				
DSP & Digital Audio Latency	1-5ms (Adjustable)				
Built-in Limiters (Non-DSP)	Output: Adjustable Advanced Limiter (1V / Step), Adjustable Limiter Wizard (Impedance/Wattage) Input: Compressor Limiter (for analog input protection)				
Advanced Limiter Settings	10 - 100V	10 - 155V	10 - 126V	10 - 170V	10 - 200V
Visual Status Feedback	LEDbar, status LEDs (AGR, Short, Temp, Protect, Ready), Graphics LCD Display				
Control Terminals	JOGS, Buttons, PKN Audio DSP Control Software				
Volume Control	-95,5dB - 0dB Set by Control JOG Wheels (0,5 dB / Step), PKN Audio DSP Control Software				
Input Sensitivity	-95,5db - 0dB Set by Control JOG Wheels (0,5 dB / Step), PKN Audio DSP Control Software				
Protections	Input limiter, Short Circuit, Overload, Low Impedance, Thermal, DC Fault				
Cooling	Active Air Cooling with Regulated DC Fans				
Direction of Air Flow	Front to Rear				
Remote Control	10/100/1000 Mbps Ethernet, PKN Audio DSP Control Software				
Weight	8 Kgs	9 Kgs	9.1Kgs	9.5 Kgs	9,6 Kgs
External dimensions	19" rack 483 x 440 x 44mm (1RU)				



PKN Audio

MADE IN HUNGARY (EU)

DISTRIBUTOR

