HPX Amplifiers HPX SERIES DATASHEET

New generation of professional touring amplifiers offering from 4600 to 12000 watts.

The HPX series feature four channel models, ready for rough handling in the touring world.

They are at the forefront of audio design, offering a powerful, reliable and lightweight amplifier designed to deliver superior sound quality for your touring gigs.

Technical Data

	HPX-4600	HPX-8800	HPX-6400	HPX-12000 DSP available
Output Power				
@ 2 Ohms	4 x 2260 W	---	4 x 3025 W	---
@ 4 Ohms	4 x 1150 W	4 x 2200 W	4 x 1600 W	4 x 2950 W
@ 8 Ohms	4 x 600 W	4 x 1150 W	4 x 820 W	4 x 1550 W
Bridge @ 4 Ohms	2 x 4520 W	---	2 x 6050 W	---
Bridge @ 8 Ohms	2 x 2300 W	2 x 4400 W	2 x 3200 W	2 x 5900 W
High Impedance				
70V rms / 100V peak	4 x 2260 W	---	---	---
100V rms / 140V peak	---	4 x 2200 W	---	4 x 2950 W
Frequency Response				
Power Bandwidth ± 0.25 dB	20 Hz - 20 KHz	20 Hz - 20 KHz	20 Hz - 20 KHz	20 Hz - 20 KHz
Phase Response				
@ 1 W 20 Hz - 20 KHz	±15 deg	±15 deg	±15 deg	±15 deg
Total Harmonic Distortion				
20 Hz - 20 KHz	<0.05%	<0.05%	<0.05%	<0.05%
Intermodulation Distortion				
SMPTE	<0.05%	<0.05%	<0.05%	<0.05%
Damping Factor				
20 - 500 Hz @ 8 Ohms	>500	>500	>500	>500
Crosstalk				
20 Hz - 1 KHz	>80 dB	>80 dB	>80 dB	>80 dB
Voltage Gain	26 dB to 38 dB	26 dB to 38 dB	26 dB to 38 dB	26 dB to 38 dB
Sensitivity				
Rated Power(26/32/38 dB Gain)	3.5/1.7/0.9 V	4.8/2.4/1.2 V	4.1/2/1 V	5.6/2.8/1.4 V
Signal to Noise Ratio				
20 Hz - 20 KHz	112 dB	115 dB	113 dB	116 dB
Required AC Mains				
Operating Voltage (50 Hz - 60 Hz)	170V-265V AC	170V-265V AC	170V-265V AC	170V-265V AC
Power on Idling (@230V)	0.5 A	0.5 A	0.5 A	0.5 A
1/8 Rated Power (@230 min.Z)	11 A	10 A	14 A	13 A
Dimmensions				
W x H x D (mm)	483 x 89 x 460	483 x 89 x 460	483 x 89 x 460	483 x 89 x 460
W x H x D (inches)	19 x 3.5 x 18.1	19 x 3.5 x 18.1	19 x 3.5 x 18.1	19 x 3.5 x 18.1
Weight	12 Kg / 26.5 lbs	12 Kg / 26.5 lbs	12 Kg / 26.5 lbs	12 Kg / 26.5 lbs
Protections	Soft-start, Turn-on Turn-off transients, Over-heating, DC, RF, Short-circuit, Open or mismatched loads, ICL™, PMS™ and SSP™			

DSP features

• AD Converters: Advanced multibit Delta-Sigma architecture, 24 Bit, 120dB Dynamic Range, 0.00032%THD+N

• DA Converters: Advanced multibit Delta-Sigma architecture, 24 Bit, 120 dB Dynamic Range, 0.00045% THD+N

• AES3 Input: 140dB Dynamic Range, 0.0001% THD+N, Sample Rate Converter (16 to 24 bit, 44.1kHz to 192kHz)

• Maximum Input/Output: +20dBu

• DSPs internal process: 56-bit double-precision floating-point.

• Latency analog input: 0.6ms (2.67ms with FIR process)

• Equalizer: Custom FIR and IIR: Parametric (Q Adaptative or Constant), Shelving (Low/High, 6dB/12dB, Q variable), Butterworth (Low/High Pass), Low/High Pass (Q Variable), Band Pass, Stop Band, All pass (Q Variable)

• Crossover: Linear Phase FIR (Low/High pass, Band Pass and Custom) , Hybrid FIR-IIR, Butterworth/ Linkwitz-Riley/Bessel IIR (6dB/oct to 48dB/oct)

• Delay: 4x 341.25ms (118m) Input and 4x 52.08ms (18m)

• Output Limiters: RMS and Peak Power (Ratio, Knee, Attack, Hold and Release times variable)

Available options

• **Standard Signal Inputs Module:** The HPX Series amps are equipped as standard with a Neutrik® XLR input doubled by other XLR connectors for linking purpose, per channel

• **DSP HPX:** The HPX Series Digital Signal Processor is real time fully programmable through Ethernet, USB or directly from the front panel. There are two different versions: 4 Inputs/4 Outputs or 2 Inputs/2 Outputs totally free route configurable. Both versions include post-processor signal XLR output connectors to link the processed signal to another amplifier without DSP.

• **Dante Domain Manager™ (DDM) Networking Audio Input:** 4 inputs channels of Dante™ can be installed in the HPX Series equipped with DSP. Sampling frequency can be configured as 48, 96 or 192 kHz. Audio format is Dante Audio over IP and AES67 RTP. Two RJ45 connectors are configurable as 1 GHz/100 MHz for Primary/Secondary network, or standard switch.

• **AES3 Input:** Provides standard AES3 (AES/EBU) digital input using two input XLR connector in 4 channels models or one XLR connector in 2 channels models. It include a high performances sample rate converter to adapt any signal. You can select Digital/Analog input using the front panel Menu, where you can configure also the termination resistor.

• **Ethernet LAN Port:** standard RJ45 connector for Ethernet network connection. Using it you can control/ monitor the amplifier and the DSP.

• **GPIO module for HPX Series:** This General Purpose Input Output (GPIO) module, permits monitoring the amplifier ON/OFF status (GENERAL PURPOSE OUTPUT) to control an external device by an internal relay.

GENERAL PURPOSE OUT connector provides some contacts to monitoring the status. Contacts marked as OK will remain short-circuited when amp is correctly working and will be opened if the amplifier is in standby mode.