

NX3.04
 NX3.02
 NX1.54
 NX1.52
 NX8004
 NX8002
 NX4004
 NX4002



NX SERIES

POWER AMPLIFIERS W/ PROGRAMMABLE OUTPUTS

Ashly's new line of *nX Power Amplifiers* feature lightweight, energy-efficient Class-D switching amplifier technology combined with a switch mode power supply. *nX* amplifiers are available in three product families (*nX*, *nXe*, *nXp*) and are designed to meet the most demanding live sound and fixed installation sound systems in stadiums, arenas, performance venues, worship spaces and convention centers.

nX Series is the base level amplifier in the line, available in either 2 or 4-channel models. Use rear panel DIP switches to program each channel output for either High-Z (70V or 100V Constant Voltage) or Low-Z (stable down to 2 Ohms) operation. When in sleep mode, the *nX* amplifiers draw less than 1 Watt.

***nX Series* Features:**

- 2 and 4-channel high-output, lightweight amplifiers with programmable output on each channel (High-Z or Low-Z, selected via rear panel DIP switches)
- Power-saving, *Energy Management System*[‡] (Ashly EMS™) automatic <1W sleep-mode (defeatable)

- Front panel power switch and level controls (can be disabled for security)
- Rear panel DIP switches per channel for selection of high pass filter, limiter, input gain, and High-Z or Low-Z speaker output configuration
- Remote DC level control on each input channel
- Switch mode power supply automatically detects 120V or 240V AC operation
- Extensive protection circuitry, continuously variable cooling fans
- Multiple independent internal power supplies provide increased channel separation and reliability
- Neutrik® Combo XLR – 1/4" TRS jack plus Euroblock input connectors
- Neutrik® speakON® twist locking loud-speaker connectors for security, safety, and reliability
- Neutrik® powerCON® detachable AC mains connector

3000 & 1500 Watt Models

800 & 400 Watt Models

nX Series	nX 3.04	nX 3.02	nX 1.54	nX 1.52	nX 8004	nX 8002	nX 4004	nX 4002
Channels	4	2	4	2	4	2	4	2
<i>*Max Output Power: Measured in Watts, Per Channel, Low-Z Output, All Channels Driven</i>								
2 Ohms	3,000	3,000	1,500	1,500	800	800	400	400
4 Ohms	2,000	2,000	1,500	1,500	800	800	400	400
8 Ohms	1,250	1,250	1,250	1,250	800	800	400	400
<i>*Low Z Output: Measured in Watts, Bridge Mode, All Channels Driven</i>								
4 Ohms	6,000	6,000	3,000	3,000	1600	1600	800	800
8 Ohms	4,000	4,000	3,000	3,000	1600	1600	800	800
<i>*70V, 100V Output: Measured in Watts, All Channels Driven</i>								
70V (per channel)	2,450	2,450	1,500	1,500	800	800	400	400
100V (per channel)	1,250	1,250	1,250	1,250	800	800	400	400
<i>Total Power Draw: Measured in Watts, Total for all Channels</i>								
Sleep Mode	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Standby Mode	70	40	70	40	40	25	40	25
Idle (no signal)	100	55	100	55	70	40	70	40
<i>Current Draw: Measured in Amps, Total for all Channels, 120VAC, Divide by 2 for 240V</i>								
Sleep Mode	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Standby Mode	1.30	0.70	1.30	0.70	0.70	0.38	0.70	0.38
Idle (no signal)	1.85	1.00	1.85	1.00	1.30	0.70	1.30	0.70
<i>Max Current Draw: Measured in Amps, Typical Input, All Channels Driven, Divide by 2 for 240V</i>								
½ Max Power @ 2 Ohms	29.5	14.7	16.0	8.0	8.8	4.6	8.8	4.6
<i>Thermal Dissipation: BTU/hr, Typical Input, Total for all Channels</i>								
Sleep mode	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
Standby mode	238	136	238	136	136	85	136	85
Idle (no signal)	340	187	340	187	238	136	238	136
½ Max Power @ 2 Ohms	2,720	1,360	1,700	850	970	495	595	305

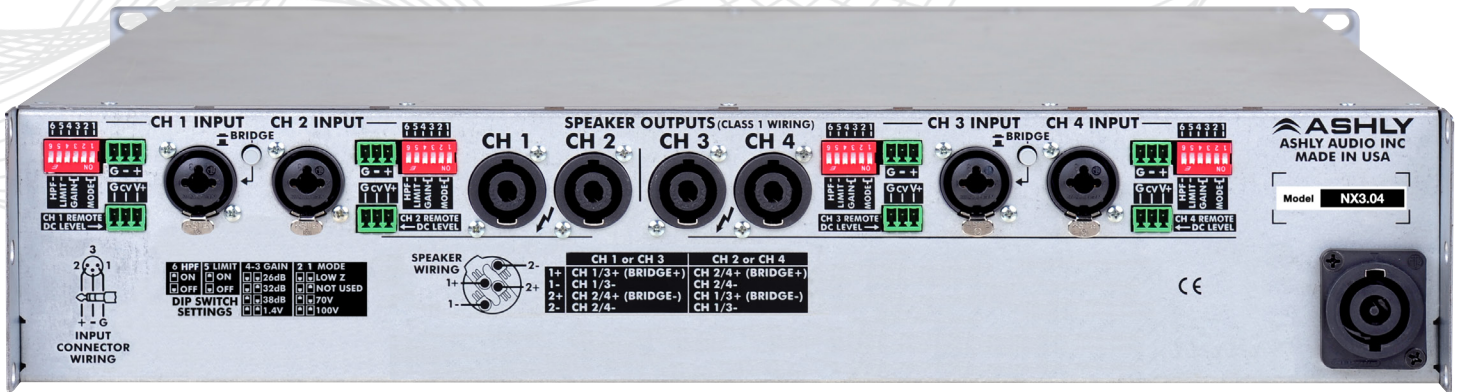
* Measurements based on CEA-2006/490A, 20ms 1kHz 1% THD+N, 480ms 1kHz -20dB.

‡ <1W sleep mode can be defeated for applications that are subject to third-party performance standards that prohibit a sleep mode, including those used for Mass Notification and Emergency Communication Systems and those subject to ANSI/UL 2572.

Note: When making a true comparison of energy efficiency, one must look at the Thermal Dissipation (BTU/hr) numbers for a product. All other efficiency, i.e. "percentage" numbers are not standards based, and therefore may be marketing hype. Ashly Audio builds highly efficient Class-D amplification with SMPS that will equal or surpass the competition on BTU/hr thermal output (unused energy given off as heat). Please check our published BTU/hr specifications for more information.



nXuses Neutrik®
Components



nX 3.04 Rear Panel Configuration

Specifications	Notes: <i>OdBu = 0.775 VRMS</i>
Voltage Gain	Selectable at 26dB, 32dB, 38dB, or 1.4V
Damping Factor	>250 (8 Ohms load <1kHz)
Input High Pass Filter	80Hz 2nd order
Distortion (SMPTE, typical)	<0.5%
Distortion (THD-N, typical)	<0.5% (8 Ohms, 10dB below rated power, 20Hz–20kHz)
Channel Separation	-75dB (dB from full output, 1kHz)
Signal to Noise (20Hz–20kHz, unweighted)	>114dB (all 3.0x models) >111dB (all 1.5x models) >108dB (all 800x models) >105dB (all 400x models)
Frequency Response	20Hz–20kHz, +/-0.05dB
Balanced Input Connector	Euroblock 3.5mm, 1/4" TRS and XLR Combo jack
Input Impedance	10k Ohms
Maximum Input Level	+21dBu
Speaker Output Connector	Neutrik® speakON®
Remote DC Level Control	Euroblock 3.5mm - Gnd, CV, V+ per input
Attenuators (per channel)	Front panel and remote. Fully off = Mute
Amplifier Protection	Inrush current limitation, temperature monitoring, output over-power protection, mains fuses
Cooling	Continuously variable temperature controlled axial fan(s)
Environmental	32–113 deg F, (0–45 deg, C) (noncondensing)

Front Panel LED Indicators	
<i>White LED</i>	
POWER	Switch: On, Off, Standby (flashing)
<i>Red LED</i>	
CLIP/MUTE	Per Channel: Clip @ 1dB below full output / Mute
PROTECT	On (fault condition or shut down), Off
<i>Green LED</i>	
SIGNAL	Per Channel: -18dB below rated output
BRIDGE	Per Channel Pair: On, Off
COM	On, for Ethernet data or Device ID
CURRENT	Per Channel: Proportional to output
<i>Yellow LED</i>	
TEMP	Per Channel: On dim at 90% max operating temperature, full bright + protect at 100%
SLEEP	On, amplifier is asleep from audio inactivity
DISABLE	On, power switch & front panel attenuators are disabled

Weights and Dimensions	
Unit Weight	1.54/3.04: 28lbs (12.7kg) 1.52/3.02: 22lbs (10kg) 4002/8002: 21.5lbs (9.75kg) 4004/8004: 25.2lbs (11.4kg)
Shipping Weight	1.54/3.04: 34lbs (15.5kg) 1.52/3.02: 28lbs (12.8kg) 4002/8002: 27.6lbs (12.5kg) 4004/8004: 31.3lbs (14.2kg)
Unit Dimensions (all models)	19"W x 3.5"H x 16.84"D (483mm x 89mm x 428mm)
Shipping Dimensions	24.5"W x 22"H x 5.25"D (622mm x 559mm x 133mm)

Power Requirements (@ 50/60Hz)		
Nominal (Automatic Sensing SMPS)	120VAC	240VAC
Operating Range	70–135VAC	140–270VAC
Minimum power-up	85VAC	170VAC
Power Cable Connector	20A powerCON® (32A powerCON® 3.04 model only)	

Remote Accessories	
WR-1	2-Channel Level Control
WR-1.5	Level Control

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