



NX1504
NX1502
NX754
NX752



NX MULTI-MODE AMPLIFIERS

POWER AMPLIFIERS w/ SELECTABLE OUTPUTS

NX Multi-Mode Power Amplifiers are designed to meet the most demanding live sound and fixed installation sound systems in stadiums, arenas, performance venues, worship spaces and convention centers.

Available in three amplifier series, NX offers 2 or 4-channel models as NX (base model series), NXE (networkable), or NXP (networkable + DSP).

All NX Models Include:

Class-D Switching Amplifier Technology. NX features a universal switch-mode power supply with Power Factor Correction (PFC) that operates from 70VAC to 270VAC.

Multi-Mode Operation. Selectable Outputs allow you to choose the desired output mode on each channel. Set the DIP-switch configuration for Low Impedance (2, 4, and 8 Ohm), or 25V, 70V, or 100V Constant Voltage and you're set to go.

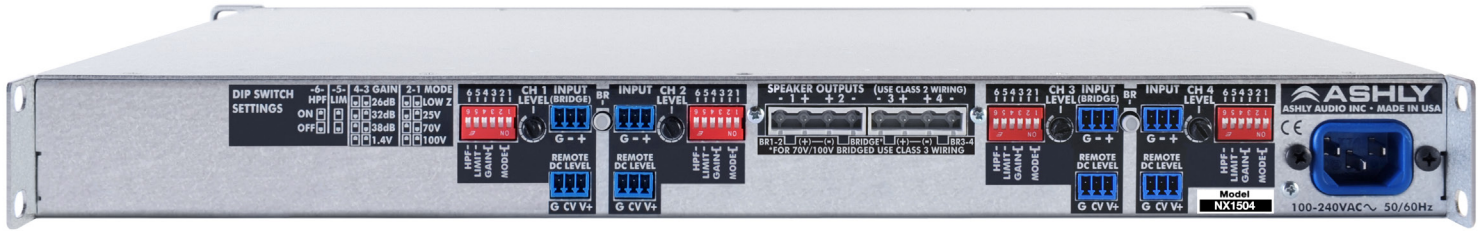
Energy Efficiency. NX has power-saving Ashly EMS™ (Energy Management System) which provides an automatic sleep-mode drawing less than 1 Watt (defeatable).

nX Series	150 Watt Models		75 Watt Models	
	nX 1504	nX 1502	nX 754	nX 752
Channels	4	2	4	2
<i>*Max Output Power: Measured in Watts Per Channel, Low Impedance Output Mode, All Channels Driven at Rated Load</i>				
2 Ohms	150	150	75	75
4 Ohms	150	150	75	75
8 Ohms	150	150	75	75
<i>*Low Impedance Output Mode, Bridged Output: Measured in Watts, All Channels Driven at Rated Load</i>				
4 Ohms	300	300	150	150
8 Ohms	300	300	150	150
<i>*25V, 70V, 100V Constant Voltage Output Mode: Measured in Watts, All Channels Driven at Rated Load</i>				
25V (per channel)	150	150	75	75
70V (per channel)	150	150	75	75
100V (per channel)	150	150	75	75
<i>Total AC Mains Power Draw: Measured in Watts, Typical input, all channels driven, 120VAC</i>				
Sleep Mode	< 1	< 1	< 1	< 1
Standby Mode	25	15	25	15
Idle (no signal)	53	33	53	33
½ Max Power @ 2 Ohms	230	133	142	82
<i>Current Draw: Measured in Amps, Typical Input, Total for all Channels, 120VAC, Divide by 2 for 240VAC</i>				
Sleep Mode	94mA	94mA	94mA	94mA
Standby Mode	0.27	0.2	0.27	0.2
Idle (no input signal)	0.50	0.35	0.50	0.35
½ Max Power @ 2 Ohms	2.2	1.16	1.24	0.76
<i>Thermal Dissipation: BTU/hr, Typical Input, Total for all Channels</i>				
Sleep mode	2.14	2.14	2.14	2.14
Standby mode	86.4	51	86.4	51
Idle (no input signal)	180	112	180	112
½ Max Power @ 2 Ohms	505	325	355	215

* 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.



Rear Panel Configuration (4-Channel nX Shown)

NX Additional Features:

- Selectable 80Hz 2nd-order Hi-pass filter, limiter, and input gain per channel
- Remote DC level control per channel
- Extensive protection circuitry, continuously variable cooling fan
- Euroblock input connectors
- Euroblock loudspeaker connectors
- Detachable AC mains line-cord connector
- Safety/Compliance: cTUVus (pending), CE, FCC, RoHS

Specifications		Notes: $0dBu = 0.775 VRMS$
Voltage Gain	Selectable at 26dB, 32dB, 38dB, or 1.4V	
Damping Factor	>250 (8 Ohm 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 (unweighted) 20Hz-20kHz, Gain@26dB	>99dB (all 150x models) >96dB (all 75x models)	
Frequency Response	20Hz-20kHz, +/-0.05dB	
Balanced Input Connector	Euroblock 3.5mm	
Input Impedance	10k Ohms	
Maximum Input Level	+21dBu	
Speaker Output Connector	Euroblock 7.62mm	
Remote DC Level Control	Euroblock 3.5mm – Gnd, CV, V+ per input	
Attenuators (per channel)	Rear panel, Fully off = Mute	
Amplifier Protection	Shorted output power limiting, over-temperature, DC-output, power-supply fault, mains-fuses & inrush-current limiting	
Cooling	Continuously variable temperature controlled fan	
Environmental	32°F-120°F, (0°C-49°C) non-condensing	

Weights and Dimensions	
Unit Dimensions	19"W x 1.75"H x 14.54"D (483mm x 45mm x 369mm)
Shipping Dimensions	25.2"W x 2.5"H x 19.5"D (641mm x 64mm x 495mm)
Unit Weight	1504/754 12.1lbs (5.5kg), 1502/752 11.3lbs (5.1kg)
Shipping Weight	1504/754 16.0lbs (15.0kg), 1502/752 14.2lbs (6.4kg)

Front Panel LED Indicators	
POWER (white)	Switch: On, Off, Standby (flashing)
PROTECT (red)	On (fault condition or shut down), Off
SLEEP (blue)	On, amplifier is asleep from audio inactivity
DISABLE (yellow)	On, power switch & attenuators are disabled
Per Channel	
CLIP/MUTE (red)	Clip @ 1dB below rated output / Mute
SIGNAL (green)	-18dB below rated output
CURRENT (green)	Brightness is proportional to output current
TEMP (yellow)	On dim at 90% max operating temperature, On full bright + protect at 100%
BRIDGE (green)	Per Channel Pair, On, Off

Remote Accessories	
WR-1	2-Channel Level Control

Power Requirements (50 – 60Hz)	
Nominal Voltage Input	100 – 240VAC
Operating Range	70 – 270VAC
Minimum power-up	70VAC
Power Supply Type	SMPS with active PFC (Power Factor Correction)
AC Mains Line Cord Connector	Detachable Nema 5-15 for USA (May vary for export)



NX SERIES

ARCHITECT & ENGINEERING SPECS

nX1504

The unit shall be a 4 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 150W per channel at Low Z, 150W per channel in 25V mode, 150W per channel in 70V mode, and 150W per channel in 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W. A switch mode power supply with active power factor correction (PFC) shall auto-detect 100 – 240VAC mains and operate from 70 – 270VAC. Each channel shall have selectable output mode of Low Z, 25V, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be 3.5mm Euroblock, while output connectors shall be 7.62mm Euroblock. The unit shall have a front panel power switch and rear level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <12.1 lbs (5.5kg), measure 19"W x 1.75"H x 14.54"D (483mm x 45mm x 369mm), and mount in a standard 19" rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly **nX1504**.

nX1502

The unit shall be a 2 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 150W per channel at Low Z, 150W per channel in 25V mode, 150W per channel in 70V mode, and 150W per channel in 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W. A switch mode power supply with active power factor correction (PFC) shall auto-detect 100 – 240VAC mains and operate from 70 – 270VAC. Each channel shall have selectable output mode of Low Z, 25V, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be 3.5mm Euroblock, while output connectors shall be 7.62mm Euroblock. The unit shall have a front panel power switch and rear level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <11.3 lbs (5.1kg), measure 19"W x 1.75"H x 14.54"D (483mm x 45mm x 369mm), and mount in a standard 19" rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly **nX1502**.

nXp754

The unit shall be a 4 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 75W per channel at Low Z, 75W per channel in 25V mode, 75W per channel in 70V mode, and 75W per channel in 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W. A switch mode power supply with active power factor correction (PFC) shall auto-detect 100 – 240VAC mains and operate from 70 – 270VAC. Each channel shall have selectable output mode of Low Z, 25V, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be 3.5mm Euroblock, while output connectors shall be 7.62mm Euroblock. The unit shall have a front panel power switch and rear level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <12.1 lbs (5.5kg), measure 19"W x 1.75"H x 14.54"D (483mm x 45mm x 369mm), and mount in a standard 19" rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly **nX754**.

nX752

The unit shall be a 2 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 75W per channel at Low Z, 75W per channel in 25V mode, 75W per channel in 70V mode, and 75W per channel in 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W. A switch mode power supply with active power factor correction (PFC) shall auto-detect 100 – 240VAC mains and operate from 70 – 270VAC. Each channel shall have selectable output mode of Low Z, 25V, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be 3.5mm Euroblock, while output connectors shall be 7.62mm Euroblock. The unit shall have a front panel power switch and rear level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <11.3 lbs (5.1kg), measure 19"W x 1.75"H x 14.54"D (483mm x 45mm x 369mm), and mount in a standard 19" rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly **nX752**.

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