NX Multi-Mode Power Amplifiers

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 | nX 1504 | nX 1502 | nX 754 | nX 752
--- | --- | --- | --- | ---
Channels | 4 | 2 | 4 | 2

*Max Output Power: Measured in Watts Per Channel, Low Impedance Output Mode, All Channels Driven at Rated Load

| Low Impedance Output Mode, Bridged Output: Measured in Watts, All Channels Driven at Rated Load
| 4 Ohms | 150 | 150 | 75 | 75
| 8 Ohms | 150 | 150 | 75 | 75

| 25V, 70V, 100V Constant Voltage Output Mode: Measured in Watts, All Channels Driven at Rated Load
| 4 Ohms | 300 | 300 | 150 | 150
| 8 Ohms | 300 | 300 | 150 | 150

| Current Draw: Measured in Amps, Typical Input, Total for all Channels, 120VAC
| Sleep Mode | 0.27 | 0.2 | 0.27 | 0.2
| Idle (no input signal) | 0.05 | 0.35 | 0.50 | 0.35
| %Max Power @ 2 Ohms | 4.2 | 1.16 | 1.24 | 0.76

| Thermal Dissipation: BTU/hr, Typical Input, Total for all Channels
| 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
| %Max Power @ 2 Ohms | 505 | 325 | 355 | 215

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

1 <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.

**Power Requirements**

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

**Specifications**

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**Weights and Dimensions**

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**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

**Remote Accessories**

- **WR-1:** 2-Channel Level Control

**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

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DS-0317
The power amplifier shall be an Ashly nX752. 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 lbs (5.5kg), measure 19”W x 7.5”H x 14.5”D (483mm x 191mm 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.

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 <11.3 lbs (5.1kg), measure 19”W x 7.5”H x 14.5”D (483mm x 191mm 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.

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 7.5”H x 14.5”D (483mm x 191mm 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.

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 <11.3 lbs (5.1kg), measure 19”W x 7.5”H x 14.5”D (483mm x 191mm 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.