

# NE Series Two-Channel Amplifiers

## NE Series specifications

800 | 1600 | 2400 |



Ashly's Two-channel NE amplifiers are designed to meet the specifications of the performance installation and constant voltage markets. The ne800, ne1600 and the ne2400 will add a new level of power and control from the simplest to most advanced audio system applications. The ne800 provides 400W, ne1600, 800W and ne2400, 1200W per channel at four ohms.

All NE two channel power amplifiers come standard with XLR and Euroblock input connectors, and Speakon/Euroblock output connectors. All models include balanced analog inputs, bridge mono mode, an 80Hz hi-pass filter, input sensitivity switch, full Ethernet control using Protea NE Software, remote standby for power up, and DC remote level control using an Ashly WR-1 or equivalent.

The NE two-channel amplifiers also include balanced, buffered Analog Aux Outputs on XLR and Euroblock connectors. With no DSP Module installed in the amplifier, the Aux Outputs are simply a buffered signal matching the inputs. If the amplifier has DSP installed, each Aux Output can be independently configured, in addition to the two main amplifier channels, with its own DSP processing and any input source, including AES/EBU or CobraNet (if installed) to drive other power amplifiers.

With a factory installed DSP Module, and using Protea NE software, each amplifier input channel can be configured with DSP blocks to have its own dynamics control, gain functions, graphic and/or parametric EQ, Hi-pass/Lo-pass filters, time delay, metering, and test signal generator. A mixer section with assignable routing allows any input to drive any or all amplifier outputs. Outputs have the same DSP functions as inputs, with the addition of a fast, automated crossover setup. Both inputs and outputs can copy/paste their settings to other channels, or can link with one or more other channels to track their settings. Presets can be used to store and retrieve global parameters of an amplifier's control surface and DSP section from a file. In addition, Sub Presets allow for a collection of individual DSP function parameters within and across both channels of an amplifier to be stored and recalled as a set, affecting only those parameters which have been tagged. Up to 35 presets/subpresets can be stored within the amplifier, and can be recalled in real time via Ethernet from a computer using Protea NE software.

The AES/EBU Input Module is a factory installed option allowing NE two channel amplifiers to accept AES/EBU digital inputs. This protocol allows 2 channels of digital audio to be transmitted over a single cable, thus maintaining a completely digital signal path until just before the power amplification stage. 48kHz & 96kHz data rates are supported. The optional CobraNet Module allows the NE two channel amplifier to be part of a networked audio distribution system. It is a combination of software, hardware and network protocol which allows distribution of multiple channels of realtime, high quality digital audio over a standard Ethernet Network.

Network Enabled (NE) amplifiers offer ease of use, full setup, control and monitoring using standard 10/100 Ethernet protocol and Protea NE Software. No special outboard control units are needed. NE Series amplifiers are offered two ways; standard and "pe" (Protea Enabled) with Ashly's world renowned Protea digital signal processing.

### Features:

- 10/100 Ethernet is Standard
- Protea DSP/AES Input Options
- CobraNet Input Option
- Complete Amplifier Control
- DC Voltage Control
- Ethernet Remote Control & Monitoring
- High Efficiency Switched Mode Power Supply
- Stepped, Calibrated Input Attenuators
- Input Sensitivity 26dB, 36dB or 1.4V
- DC Voltage Control of Input & Remote Power Turn-On/Off
- Power switch can be disabled by software
- Temperature Sensitive Variable Speed Fan Front to Back Airflow
- 80Hz Subsonic Filter
- 4-Stage Level Meters
- Output Current & Temp Indicators
- Safety/Compliance: FCC/RoHS

### Watts per channel

Model	8 ohms	4 ohms	8 ohms mono bridge
800	225	400	800
1600	450	800	1600
2400	700	1200	2400

### Options:

- Protea DSP Input
- AES Input
- CobraNet Input

### Constant Voltage Models Available:

- ne800: 25V, 70V, 100V
- ne1600: 70V, 100V
- ne2400: 100V

### Accessories:

- WR-1 Remote Level Control

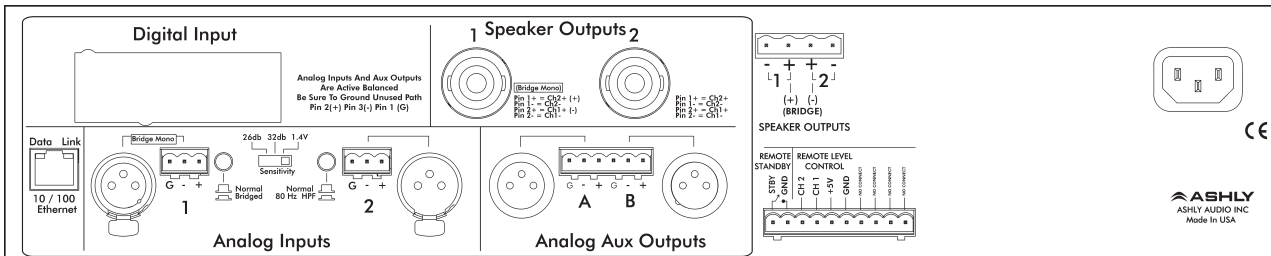
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Model	800	1600	2400
Rated Power 8 ohms (per channel)	225W	450W	700W
Rated Power 4 ohms (per channel)	400W	800W	1200W
Rated Power 8 ohms (Bridged)	800W	1600W	2400W
Rated Power 25V   70V   100V	400W   400W   400W	NR   800W   800W	NR   1200W   1200W
S/N (20 Hz-20 kHz, unweighted)	>98dB	>105dB	>108dB
1/8 Power, Pink Noise, 4 ohms	180W	330W	500W
1/8 Idle	0.5A, 35W	0.6A 40W	0.7A, 45W
Output Circuitry	Class-D	Class-D	Class-D
Power Cable	15A Edison	15A Edison	15A Edison
Weight: Net Shipping	21 lbs (9.53kg) 27.0 lbs. (12.25kg)	21 lbs (9.53kg) 27.0 lbs. (12.25kg)	21 lbs (9.53kg) 27.0 lbs. (12.25kg)

Frequency Response (8 ohms)	20 Hz - 20k Hz, $\pm 1.0$ dB
Distortion (SMPTE, typical)	<0.5% (8 ohm load, 10dB below rated power)
Distortion (THD+N, typical)	<0.5% (8 ohm load, 10dB below rated power)
Input Impedance	20k ohms, balanced
Input Sensitivity	26dB, 32dB or 1.4V
Maximum Input Level	+21dBu
Damping Factor	>250 (8 ohm load, <1KHz)
Front Controls	AC Power Switch, Individual input attenuators
Cooling	Temperature dependent speed controlled fan, Front-in, Rear-out flow
Control Network	onboard, standard 10/100 Ethernet
Connectors (each channel)	Input: XLR Female, Euroblock, Looping: XLR male, Euroblock Output: Speakon, Euroblock
Connections (Remote)	Standby, Level: Euroblock
Front indicators	per channel: Clip, -6dB, -12dB, -18dB, Temp, Current, Bridge Power, Standby, Protect, Power Switch Disable, Comm
Amplifier and Load Protection	inrush current limitation, temperature monitoring, output over-current protection, mains fuses
Dimensions	Height: 3.50" (88.9mm) 2RU Width: 19" (483 mm) Depth: 15.5" (394mm)
Environmental	40-120deg. F, (4-49deg. C) noncondensing



Notes:  
0dBu = 0.775 VRMS  
Power ratings are per channel at 1% THD+N

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