



NETWORKED 4-CHANNEL AUDIO POWER AMPLIFIERS

Models NQ-A4060, NQ-A4120, NQ-A4300



Model NQ-A4300 shown

DESCRIPTION

Bogen's Nyquist based networked audio power amplifiers offer cost-effective performance for permanent installations and commercial sound, and are designed to meet the rigorous requirements of today's sophisticated sound systems. Designed with the commercial sound contractor in mind, they provide unparalleled flexibility and versatility without the need for add-on modules. They offer state-of-the-art, built-in DSP software for extensive and comprehensive signal processing, including factory loudspeaker presets, which turns the amplifier into a complete audio solution.

These 4-channel amplifiers are available in 240, 480, and 1200-watt models, each with the same features to provide power and performance, no matter how large or small the application.

In addition to their extensive flexibility, the Nyquist Networked Power Amplifiers use the latest in Class D amplifier technology and provide unparalleled sonic quality, exceptional reliability, and reduced heat output for increased operating efficiency.

FEATURES

- 2 dedicated Balanced Line Inputs (both Phoenix plug & XLR)
- Line Input that can be routed-out over the Nyquist network
- Network-based audio input (paging, audio distribution)
- 4 ohm, 8 ohm, 25V, and 70V outputs
- GUI based DSP control
 - 16-band Graphic Equalizer
 - Signal Present and Clip Monitor
 - Adjustable High Pass, Low Pass, and Bandpass Filters
 - Noise Gate
 - Compressor/Limiter
 - 7-band Parametric Equalizer
- Switch selectable 4-Channel or 2-Channel bridged operation
- Safety: CAN/CSA C22.2 No. 62368-1:2014; UL62368-1:2014; EN 62368-1:2014
- EMC: FCC Part 15b Class A; ICES-003, Issue 6: 2016; EN 55032:2012; EN 55035:2017
- 1/2 Rack Width—Wall, Rack, or Shelf mountable – 2RU packages
- 19" Rack Mount Kit (NQ-RMK03; sold separately)

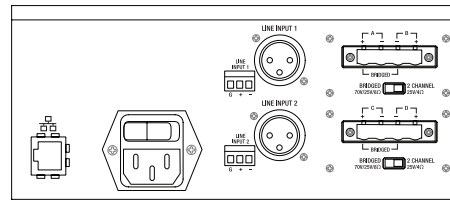
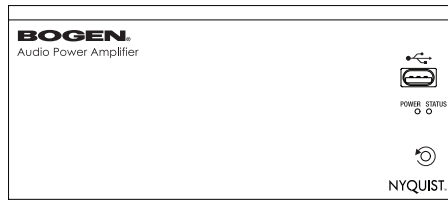
A & E SPECIFICATIONS

The Nyquist based four channel amplifier shall be a model ____, rated at ____ watts RMS per channel (NQ-A4060/4x60 watts, NQ-A4120/4x120 watts, and NQ-A4300/4x300 watts) with switch selectable 4-Channel or 2-Channel bridged operation. The amplifier shall have two dedicated Balanced Line Inputs with both Phoenix plug and XLR connections for each input. The amplifier shall provide a frequency response from 20-20 kHz +/- 0.25 dB at rated power. Distortion shall be less than 0.03%. The amplifier shall include GUI based DSP controls; 16-band Graphic Equalizer; Signal Present and Clip Monitor; Adjustable High Pass, Low Pass, and Bandpass Filters; Noise Gate; Compressor/Limiter; and 7-band Parametric Equalizer. Outputs shall be provided for 4-, 8-ohm, 25V, and 70V distributed systems. The amplifier shall be rack mountable 1/2 Rack Width—Wall, Rack, or Shelf mountable 1RU and 2RU packages or by using a 19" Rack Mount Kit (NQ-RMK03; sold separately). It shall carry the necessary safety agency listings for both the US and Canada. The amplifier shall employ convection air cooling. Amplifiers that require fans for cooling shall not be considered equal.



The **C4000 Series** is built upon Bogen's award winning Nyquist software-based IP communications platform, which provides users with unparalleled flexibility and scalability in whatever their application.

Models NQ-A4060,
NQ-A4120, & NQ-A4300
Front/Rear Panels



TECHNICAL SPECIFICATIONS

I C A T I O N S		NQ-A4060	NQ-A4120	NQ-A4300
Power Output 4-Ch. Mode (per Ch.)		60W @ 25V/4 ohms	120W @ 25V/4 ohms	300W @ 25V/4 ohms
Power Output 2-Ch. Bridged Mode (per Ch.)		120W @ 70V/25V/8 ohms	240W @ 70V/25V/8 ohms	600W @ 70V/25V/8 ohms
Line-In Sensitivity (Gain min./max.)		Continuously variable from 2V to 0.1V RMS		
S/N Ratio (20k BW)		97 dB		
Power Output Bandwidth		20 Hz-20 kHz < .03% THD+N		
THD+N @ 1 kHz rated power		< .03%		
Rated Load Impedance (min. per Ch.)		8 ohms Bridged / 4 ohms Non-Bridged		
Frequency Response @ 1 Watt		20 Hz-20 kHz +/- 0.25 dB		
Class of Operation		Class D		
Connectors	Power Input Output	10A Line Cord C14 IEC Inlet	10A Line Cord C14 IEC Inlet	12A Line Cord C14 IEC Inlet
		Balanced 3-pin Phoenix Plug/Header, Balanced 3-pin Neutrik XLR, RJ45, USB 2.0 Type A		
		4-pin 'touch proof' Phoenix Plug/Header		
Line Inputs		Two (2) 10k ohm electronically balanced, 3-pin Phoenix and 3-pin Neutrik XLR		
AC Input Voltage Range		85 VAC to 265 VAC 50/60 Hz		
Maximum AC Current		4A	6A	12A
Indicators		Status & Power LEDs (front) / Network LEDs (rear)		
Operating Temperature Range		-15 C to +40 C		
Thermal Emissions (Full Power)		180 BTU/hr.	270 BTU/hr.	450 BTU/hr.
Cooling		Convection		
Protection		RF, DC, Low Frequency, Thermal, Low Impedance, Short Circuit, Clip Limiting		
DSP Based Audio Features		16-band Graphic Equalizer; Signal Present and Clip Monitor; Adjustable High Pass, Low Pass, and Bandpass Filters; Noise Gate; Compressor/Limiter; 7-band Parametric Equalizer		
Special Features		Sleep Mode (defeatable), Power Factor Correction (PFC), 89% Amplifier Efficiency, On/Off Muting, Bridge Mode Switch		
Networking		Cat5 or better 10/100 network connectivity to Bogen's Nyquist network		
Product Weight		6.3 lbs.	6.3 lbs.	8.6 lbs.
Physical Dimensions:		1/2 Rack Width x 2RU*		
*Double Rack Space (2RU)		8.00" W x 3.43" H x 13.48" D (Depth includes Phoenix connectors: width is without rack mount brackets attached; height excludes rubber mounting feet)		

Limited Warranty, Exclusion of Certain Damages

The **NQ-A4060, NQ-A4120, NQ-A4300** are warranted to be free from defects in materials and workmanship for five (5) years from the date of sale to the original purchaser. Any part of the product covered by this warranty that, with normal installation and use, becomes defective (as confirmed by Bogen upon inspection) during the warranty period will be repaired or replaced by Bogen, at Bogen's option, with new or refurbished product, provided the product is shipped insured and prepaid to: Bogen Factory Service Department: 4570 Shelby Air Drive, Suite 11, Memphis, TN 38118, USA. Repaired or replacement product(s) will be returned to you freight prepaid. This warranty does not extend to any of our products that have been subjected to abuse, misuse, improper storage, neglect, accident, improper installation or have been modified or repaired or altered in any manner whatsoever, or where the serial number or date code has been removed or defaced.

THE FOREGOING LIMITED WARRANTY IS BOGEN'S SOLE AND EXCLUSIVE WARRANTY AND THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY. BOGEN MAKES NO OTHER WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED AND EXCLUDED TO THE MAXIMUM EXTENT ALLOWABLE BY LAW. Bogen's liability arising out of the manufacture, sale or supplying of products or their use or disposition, whether based upon warranty, contract, tort or otherwise, shall be limited to the price of the product. IN NO EVENT SHALL BOGEN BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, LOSS OF DATA OR LOSS OF USE DAMAGES) ARISING OUT OF THE MANUFACTURE, SALE OR SUPPLYING OF PRODUCTS, EVEN IF BOGEN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSSES. Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

Products that are out of warranty will also be repaired by Bogen Factory Service Department -- same address as above or call 201-934-8500, at owner's expense. Returned products which do not qualify for warranty service, may be repaired or replaced at Bogen's option with a previously repaired or refurbished item. The parts and labor involved in these repairs are warranted for 90 days when repaired by the Bogen Factory Service Department. All parts and labor charges as well as shipping charges will be at the owner's expense.

All returns require a Return Authorization number. For most efficient warranty or repair service, please include a description of the failure.

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BOGEN®
COMMUNICATIONS, INC.

1200 MacArthur Blvd., Suite 304, Mahwah, NJ 07430 • 1-800-999-2809
www.bogencom.com

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