**NETWORKED 2-CHANNEL
AUDIO POWER GEN 2 AMPLIFIERS**

Models NQ-A2060-G2, NQ-A2120-G2, NQ-A2300-G2

Models NQ-A2060-G2 & NQ-A2300-G2 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 preloaded Bogen NEAR loudspeaker presets, helping to optimize speaker performance and sound quality. Customers can also create and save their own speaker presets to fine tune the audio to their specific listening environments.

These 2-channel amplifiers are available in 120, 240, and 600-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 Input (both Phoenix plug & RCA)**
- **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 2-channel or 1-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 – 1RU and 2RU packages**
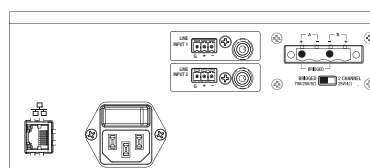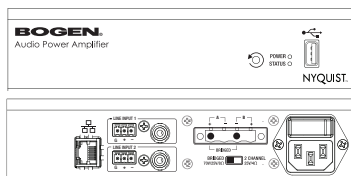- **19" Rack Mount Kit (NQ-RMK03; sold separately)**

A & E SPECIFICATIONS

The Nyquist based two channel amplifier shall be a model _____, rated at ____ watts RMS per channel (NQ-A2060-G2/2x60 watts, NQ-A2120-G2/2x120 watts, and NQ-A2300-G2/2x300 watts) with switch selectable 2-channel or 1-channel bridged operation. The amplifier shall have two dedicated Balanced Line Input with both Phoenix plug & RCA connections. 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 Equalize; 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-ohm, 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 United States and Canada. The amplifier shall employ convection air cooling. Amplifiers that require fans for cooling shall not be considered equal.

POWERED BY

NYQUIST

The **E7000 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.

Model NQ-A2300-G2 Front/Rear Panels

TECHNICAL SPECIFICATIONS

		NQ-A2060-G2	NQ-A2120-G2	NQ-A2300-G2
Power Output 2-Ch. Mode (per Ch.)		60W @ 25V/4 ohms	120W @ 25V/4 ohms	300W @ 25V/4 ohms
Power Output 1-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 (20 kHz 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	10A Line Cord C14 IEC Inlet		
	Input	2 Balanced 3-pin Phoenix Plug/Header, 2 Balanced RCA Connector, RJ45, USB 2.0 Type A		
	Output	4-pin "touch proof" Phoenix Plug/Header		
Line Inputs		2 10k ohm electronically balanced, 2 3-pin Phoenix and 2 Balanced RCA Connectors		
AC Input Voltage Range		85 VAC to 265 VAC 50/60 Hz		
Maximum AC Current		2A	3A	6A
Indicators		Status & Power LEDs (front) / Network LEDs (rear)		
Operating Temperature Range		-15 C to +40 C		
Thermal Emissions (Full Power)		90 BTU/hr.	135 BTU/hr.	225 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		4.4 lbs.	4.4 lbs.	6.4 lbs.
Physical Dimensions:		1/2 Rack Width x 1RU*		1/2 Rack Width x 2RU**
***Single Rack Space (1RU)**		8.00" W x 1.70" H x 13.48" D (Depth includes Phoenix connectors; width is without rack mount brackets attached; height excludes rubber mounting feet)		
****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

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