



PLENUM-RATED 20W INTEGRATED AMPLIFIER

Model NQ-GA20P2



DESCRIPTION

Bogen's plenum-rated Nyquist 20-watt integrated amplifier offers cost-effective performance for permanent installations and commercial sound. Designed with the educational market in mind, the amplifier's plenum-rating provides unparalleled flexibility and versatility to help simplify site design.

The GA20P2 easily works as a page zone extender to facilitate voice access to a single zone of one-way paging over the Nyquist network. It also works great in background music applications – leveraging the powerful audio management and distribution capabilities of Bogen's Nyquist platform.

In addition to its extensive flexibility, the NQ-GA20P2 uses the latest in Class D amplifier technology and provides unparalleled sonic quality, exceptional reliability, and reduced power consumption to permit standalone Power-over-Ethernet Plus (PoE+) operation over the local network.

FEATURES

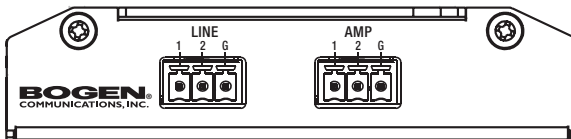
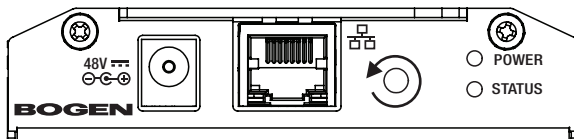
- Single 20-watt, 8-ohm speaker output
- Single Balanced Line Output
- RJ-45 for Nyquist network connection
- PoE+ 802.3at compliant
- Nyquist network-based audio output (paging, intercom, audio distribution)
- Web-based configuration
- Front panel Power and Status LEDs
- In-wall, in-ceiling, shelf, or device mountable UL 2043 plenum-rated package
- Integrated slotted mounting flanges
- Optional 48VDC External Power Supply (PS4830W; sold separately)

A & E SPECIFICATIONS

The Nyquist plenum-rated amplifier shall be a model NQ-GA20P2 20-watt integrated amplifier and shall utilize UL 2043 plenum-rated packaging. The amplifier shall be capable of being powered with an 802.3at compliant Power-over-Ethernet Plus (PoE+) switch, PoE+ power injector, or 48VDC external power supply PS4830W. The amplifier shall provide a frequency response from 20-20 kHz +/- 0.25 dB at rated power. Distortion shall be less than 0.05% THD+N. The amplifier shall include GUI-based configuration. Outputs shall be provided for both line level or 8-ohm speaker connections. Audio line level output shall be 2.2V RMS @10kΩ (+27 dB) electronically balanced.



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.



TECHNICAL SPECIFICATIONS

NQ-GA20P2

Power Output	20W @ 8 ohms
S/N Ratio (20k BW)	80 db
Power Output Bandwidth	20 Hz - 20 kHz < .1% THD+N
THD+N @ 1 kHz Rated Power	< .05% THD+N
Rated Load Impedance	8 ohms
Frequency Response @ 1 Watt	20 Hz - 20 kHz +/- 0.25 dB
Audio Amplifier Class of Operation	D
External DC Power	48 - 56VDC .3A (5.5mm x 2.1mm Barrel Jack)
DC Input Range	30-Watt 48V to 56V
PoE+ (Power over Ethernet)	IEEE 802.3 at standard, Class 4 device (RJ45)
Power Amplifier Output Connector	3-pin 3.5mm Phoenix Plug/Header
Audio Line Level Output Connector	3-pin 3.5mm Phoenix Plug/Header
Audio Line Level Output	2.2V RMS @10kΩ (+27 dB) Electronically Balanced
Indicators	Power & Status LEDs (front) / Network LEDs (front)
Operating Temperature Range	-15 C to +40 C
Protection	ESD, RF, DC, Low Frequency, Thermal, Low Impedance, Short Circuit, Clip Limiting
Networking	Cat5 or better 10/100 network connectivity to Bogen's Nyquist network
Certifications	CE and FCC Part 15b Class A; ICES-003, Issue 6: 2016; EN 55032:2012; EN 55035:2017; UL 2043; carries NRTL Safety Mark
Product Weight	0.7 lbs.
Physical Dimensions	3.75' W x 7/8' H x 6.2' D (Depth includes Phoenix connector)

Limited Warranty, Exclusion of Certain Damages

The **NQ-GA20P2** is 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 items. 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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