

3XL

HIGH-PERFORMANCE 350 WATTS PER CHANNEL AMPLIFIER WITH INTEGRATED DSP

THE IDEAL SOLUTION FOR OUTDOOR AUDIO AMPLIFICATION

350 WATTS PER CHANNEL POWER AMPLIFIER WITH INTEGRATED DSP

The 3XL's unique array of digital features allows integrators to configure it for any combination of outdoor speakers and subwoofers. Beyond its amplification power, the 3XL allows any input to be routed to either the amplifier channel or the line level output or both simultaneously.

The 3XL is a dual mono, direct-drive, transformer-less design for maximum damping factor and precise bass control. Two separate Class-D power amplifier modules, with dedicated PFC/Switched-Mode power supply, are crafted onto one chassis. Each channel operates independently in either low-impedance mode (4/8/16 Ohms) or high-impedance mode

(70V/100V), allowing connection of 70/100V speakers on one channel while simultaneously driving one or two 8-Ohm subwoofers on the other channel.

The 3XL is remarkably easy to set up and use. NEAR has thoughtfully programmed-in up to 16 DSP presets, perfectly crossed-over, equalized and power limited for the most common combinations of NEAR speakers. These are easily accessed and set via front-panel control. More advanced users can access the full array of DSP features through a (Graphic User Interface) GUI by connecting a computer to the 3XL using the supplied Ethernet cable.

For more information on the 3XL DSP Power Amplifier, please visit our website at: www.bogen.com.

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350 WATTS PER CHANNEL POWER AMPLIFIER WITH INTEGRATED DSP

FEATURES

- High power output: 2 x 350W @ 4/8/16 ohms or 70V/100V
- Universal power: Switched-Mode power supply with active (Power Factor Correction) PFC and wide range input
- Class D amplifier output stages with efficiency up to 90%
- Protection: Self-limiting and shutdown protection circuitry including Clip, Over-current, Over/Under voltage, Output DC and Over-temperature
- Line output circuit for use in driving additional power amplifiers or other line level devices
- Excellent sonic performance with 24 bit high-end converters coupled with 48kHz/24 bit DSP sample rate
- Very low-noise, highly efficient fan cooling system
- NEAR custom DSP engine:
 - 5 band parametric equalization per input channel
 - 7 band parametric equalization per output channel
 - Each band can be switched to Bell, Low/High Shelving, Low/High-Pass, and Notch filtering
- Crossover filters with slopes from 6dB/Octave up to 48dB/Octave including Butterworth, Bessel, Linkwitz-Riley types
- Adjustable RMS Compressor, including variable ratio and knee, for each input and adjustable Peak Limiter for each output
- Adjustable Delay time up to 960ms for every input and output channel
- Storage for 16 presets for system configurations
- Front panel interactive LCD display for local access and configuration via rotary push button control
- Flexible transformer-less output Speaker Drive mode settings for low-impedance or high-impedance applications
- Ethernet interface connection for system setup, monitoring, and control via an intuitive Windows-based GUI application for the integrator/user
- Automatic Stand-By Mode; selectable Sleep Mode
- Accessories (sold separately):
 - AC Power Line Cord – UK version (P/N: ACLCUK)
BS 546 to IEC-320-C13 plug connectors; 1.5m length
 - AC Power Line Cord – EU version (P/N: ACLCEU)
CEE 7/7 to IEC-320-C13 plug connectors; 1.5m length



SPECIFICATIONS

POWER & AMPLIFIER

Number of Channels	2
Dynamic Power (6dB Crest Factor)	2 x 350W
Input Sensitivity	1V
Output Circuitry	Class-D
Output Types	4/8/16-ohm, 70V, 100V
THD @ Rated power 4 ohms (1kHz)	0.02% (1W), 0.05% (60W), 0.08% (100W)
S/N Ratio (20K BW)	104dB ref. 70V, full power
Frequency Response	20Hz – 20kHz, -1.5dB (1W, 4 ohm to 8 ohm load)
Damping Factor	>120 (4 ohms/1kHz input signal)
Power Supply	Switched-Mode, with PFC
Operating Range	100-240 VAC (50Hz/60Hz), 1.5A
Protections	Clip, Over-Current, Over/Under Voltage, Output DC, and Over-Temperature
Analog Input	2 x XLR electronically balanced, 2 x RCA unbalanced
Analog Output	2 x pluggable terminal Amplifier BTL, 1 x XLR electronically balanced, 1 x RCA unbalanced
GUI Application	Windows XP® or later, 512MB RAM min.

GENERAL

Dimensions	19" W x 3.5" H x 15-1/2" D (483mm x 89mm x 394mm) - 2RU
Weight, Net/Shipping	17.7 lbs. (8.06 Kg) / 24.18 lbs. (10.97 Kg)

3XL REAR PANEL



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