NX Multi-Mode Power Amplifiers

Power Amplifiers w/ Selectable Outputs & Ethernet Control

NX Multi-Mode Power Amplifiers are designed to meet the most demanding live sound environments and fixed audio installations anywhere—performance venues, stadiums, arenas, convention centers as well as schools, store fronts, and worship spaces.

Available as three separate amplifier series, NX offers 2 or 4-channel models as NX (base model series), NXE (networkable), or NXP (networkable + DSP).

All NXE Models Include:

- Ethernet Control using Protea™ NE software. Also, serial data control by Ashly programmable remotes or third party controllers, aux preamp outputs, instant standby mode, preset recall, fault condition logic outputs, optional Dante™, CobraNet™, or AES/3 digital audio capability (factory-installed).

- Real-Time Clock with Event Scheduler. Assign automatic execution of selected functions and tasks. The event scheduler is programmed using PneS software and stored in the amplifier.

 Ashly Remote Control via iPad® app. Use our Ashly Remote free app available for custom design of secure wireless control over a network.

Class-D Switching Amplifier Technology. NXE features a switch-mode power supply which automatically detects 110 – 120VAC or 220 – 240VAC operation and makes NXE one of the lightest in its class.

Multi-Mode Operation. Selectable Outputs on each channel allow you to choose the desired output mode. Set the DIP-switch configuration for Low Impedance (2, 4, and 8 Ohm), or Constant Voltage (70V or 100V) and you’re set to go.

Energy Efficiency. NXE has power-saving Ashly EMS™ (Energy Management System) which provides an automatic sleep-mode drawing less than 1 Watt (dedefatable).

Multiple Internal Power Supplies. NXE provides increased channel separation and reliability.

### Power AmPifiers with Selectable OutsPuts & Ethernet Control

**Ashly Remote Control via iPad® app.** Use our Ashly Remote free app available for custom design of secure wireless control over a network.

**Class-D Switching Amplifier Technology.** NXE features a switch-mode power supply which automatically detects 110 – 120VAC or 220 – 240VAC operation and makes NXE one of the lightest in its class.

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**Energy Efficiency.** NXE has power-saving Ashly EMS™ (Energy Management System) which provides an automatic sleep-mode drawing less than 1 Watt (dedefatable).

**Multiple Internal Power Supplies.** NXE provides increased channel separation and reliability.
NXE Additional Features:
- Selectable 80Hz Hipass filter, limiter, and input gain per channel, via rear panel
- Remote DC level control per channel
- Extensive protection circuitry, continuously variable cooling fans
- Ethernet port for software control and monitoring of amplifier functions, with front panel COM activity LED
- Serial data port available for Ashly WR-5 and RD-8C programmable remote control (optional RS-232 converter INA-1 available for third party controllers)
- Instant Standby Mode, 30% reduction in idle power consumption, triggered by contact closure, software control, or event scheduler
- Preset recall via contact closure, software control, remote control, or event scheduler
- Programmable power-on delay
- Aux preamp line outputs for driving other amplifiers
- Fault condition logic outputs, per channel
- Neutrik® Combo XLR – 1/4” TRS jack plus Euroblock input connectors
- Neutrik® twist locking loudspeaker connectors
- Neutrik® speakON® Detachable AC mains connector
- Safety/Compliance: cTUVus, CE, FCC, RoHS

Rear Panel Configuration (4-Channel nXe Shown)

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Notes: 0dBu = 0.775 VRMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage Gain</td>
<td>Selectable at 26dB, 32dB, 38dB, or 1.4V</td>
</tr>
<tr>
<td>Damping Factor</td>
<td>&gt;250 (8 Ohms load &lt;3kHz)</td>
</tr>
<tr>
<td>Input High Pass Filter</td>
<td>80Hz 2nd order</td>
</tr>
<tr>
<td>Distortion (SMpte, typical)</td>
<td>&lt;0.5%</td>
</tr>
<tr>
<td>Distortion (THD, typical)</td>
<td>≤0.3% (8 Ohms, 10dB below rated power, 20Hz–20kHz)</td>
</tr>
<tr>
<td>Channel Separation</td>
<td>-75dB (dB from full output, 1kHz)</td>
</tr>
<tr>
<td>Signal-to-Noise (20Hz–20kHz, unweighted)</td>
<td>&gt;114dB (all 3.0x models) &amp; &gt;111dB (all 1.5x models)</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>20Hz–20kHz, +/-0.05dB</td>
</tr>
<tr>
<td>Balanced Input Connector</td>
<td>Euroblock 3.5mm, 1/4” TRS and XLR Combo jack</td>
</tr>
<tr>
<td>Input Impedance</td>
<td>10k Ohms</td>
</tr>
<tr>
<td>Maximum Input Level</td>
<td>+21dBu</td>
</tr>
<tr>
<td>Speaker Output Connector</td>
<td>Neutrik® speakON®</td>
</tr>
<tr>
<td>Control Network</td>
<td>Compatible w/ standard 100MB Ethernet</td>
</tr>
<tr>
<td>AUX Output Connector</td>
<td>Balanced Euroblock 3.5mm</td>
</tr>
<tr>
<td>AUX Output Maximum Level</td>
<td>+21dBu</td>
</tr>
<tr>
<td>Remote Standby Contact Closure</td>
<td>Euroblock 3.5mm, close contact to GND for standby mode</td>
</tr>
<tr>
<td>Preset Recall Contact Closure</td>
<td>Euroblock 3.5mm, close contact to GND for preset 1-4 recall</td>
</tr>
<tr>
<td>Data Connection</td>
<td>Euroblock 3.5mm - Gnd, +18V, In, Out</td>
</tr>
<tr>
<td>Fault Condition Logic Outputs</td>
<td>Fault indicated by loss of 1Hz “heartbeat” pulse signal</td>
</tr>
<tr>
<td>Remote DC Level Control</td>
<td>Euroblock 3.5mm - Gnd, CV, V + per input</td>
</tr>
<tr>
<td>Attenuators (per channel)</td>
<td>Front panel, software, offset link group, and remote. Fully off = Mute</td>
</tr>
<tr>
<td>Amplifier Protection</td>
<td>Inrush current limitation, temperature monitoring, output over-power protection, mains fuses</td>
</tr>
<tr>
<td>Cooling</td>
<td>Continuously variable temperature controlled axial fans(s)</td>
</tr>
<tr>
<td>Environmental</td>
<td>32–113 deg F, (9–45 deg, C) (noncondensing)</td>
</tr>
</tbody>
</table>

Power Requirements (50 – 60Hz)
- Nominal (Automatic Sensing SMPS) 110 – 120VAC 220 – 240VAC
- Operating Range 70 – 135VAC 140 – 270VAC
- Minimum power-up 85VAC 170VAC
- Power Cable Connector 20A powerCON® (32A powerCON® 3.04 model only)

Weights and Dimensions
- Unit Weight 1.54/3.04: 28.7lbs (13kg) 1.52/3.02: 22.7lbs (10.3kg) 4002/8002: 22.2lbs (10.1kg) 4004/8004: 25.9lbs (11.7kg)
- Shipping Weight 1.54/3.04: 35.2lbs (16kg) 1.52/3.02: 29.2lbs (13.3kg) 4002/8002: 28.7lbs (13.1kg) 4004/8004: 32.4lbs (14.8kg)
- Unit Dimensions (all models) 19”W x 3.5”H x 16.84”D (488mm x 89mm x 428mm) 24.5”W x 22”H x 5.25”D (622mm x 559mm x 133mm)

Front Panel LED Indicators
- POWER (white) Switch: On, Off, Standby (flashing)
- PROTECT (red) On (fault condition or shut down), Off
- SLEEP (blue) On, amplifier is asleep from audio inactivity
- DISABLE (yellow) On, power switch & front panel attenuators are disabled
- CDMM (green) On, for Ethernet data or Device ID
- Per Channel
  - CLIP (red) Cl @ 1dB below full output / Mute
  - SIGNAL (green) -1dB below rated output
  - CURRENT (green) Proportional to output
  - TEMP (yellow) On dim at 90% max operating temperature, full bright + protect at 102%
  - BRIDGE (green) On, Off

Remote Accessories
- WR-1 2-Channel Level Control
- WR-1.5 Level and Preset Recall
- WR-2 Four-Position Switch
- WR-5 Programmable Button Controller
- neWR-5 Programmable Button Controller
- FR-8 8-Channel Network Fader Remote
- FR-16 16-Channel Network Fader Remote
- Ashly Remote Remote Control Application for Apple® iPad®

Digital Input Options (Factory installed)
- Dante® Digital Interface (NXE, NXP only) part number: OPDante
- CobraNet® Digital Interface (NXE, NXP only) part number: CMN-2

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The power amplifier shall be an Ashly nXe1.52. The unit shall be a 2 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 2,450W per channel at Low Z, 70V mode, and 1,250W in 100V mode. There shall be an automatic but beatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply shall auto-detect 110 – 120VAC or 220 – 240VAC mains, and a Neutrik® powerCON shall be used for the AC cord. Each channel shall have selectable output mode of Low Z, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, fault condition logic outputs, optional network audio and AES3 digital audio capability with the addition of a 4-Channel DAC card. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <22.7 lbs (10.3kg), measure 19"W x 3.5"H x 16.8"D (483mm x 89mm x 428mm), and mount in a standard 19" rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly nXe3.02. The unit shall be a 2 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 2,450W per channel at Low Z, 70V mode, and 1,250W in 100V mode. There shall be an automatic but beatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply shall auto-detect 110 – 120VAC or 220 – 240VAC mains, and a Neutrik® powerCON shall be used for the AC cord. Each channel shall have selectable output mode of Low Z, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, fault condition logic outputs, optional network audio and AES3 digital audio capability with the addition of a 4-Channel DAC card. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <22.7 lbs (10.3kg), measure 19"W x 3.5"H x 16.8"D (483mm x 89mm x 428mm), and mount in a standard 19" rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly nXe3.04. The unit shall be a 4 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 3,000W per channel at Low Z, 2,450W per channel in 70V mode, and 1,250W in 100V mode. There shall be an automatic but beatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply shall auto-detect 110 – 120VAC or 220 – 240VAC mains, and a Neutrik® powerCON shall be used for the AC cord. Each channel shall have selectable output mode of Low Z, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, fault condition logic outputs, optional network audio and AES3 digital audio capability with the addition of a 4-Channel DAC card. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <28.7 lbs (13kg), measure 19"W x 3.5"H x 16.8"D (483mm x 89mm x 428mm), and mount in a standard 19" rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly nXe1.54. The unit shall be a 4 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 1,500W per channel at Low Z and 70V modes, and 1,250W in 100V mode. There shall be an automatic but beatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply shall auto-detect 110 – 120VAC or 220 – 240VAC mains, and a Neutrik® powerCON shall be used for the AC cord. Each channel shall have selectable output mode of Low Z, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, fault condition logic outputs, optional network audio and AES3 digital audio capability with the addition of a 4-Channel DAC card. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <28.7 lbs (13kg), measure 19"W x 3.5"H x 16.8"D (483mm x 89mm x 428mm), and mount in a standard 19" rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly nXe1.52. The unit shall be a 2 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 2,450W per channel at Low Z, 70V mode, and 1,250W in 100V mode. There shall be an automatic but beatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply shall auto-detect 110 – 120VAC or 220 – 240VAC mains, and a Neutrik® powerCON shall be used for the AC cord. Each channel shall have selectable output mode of Low Z, 70V, or 100V, an 80Hz high-pass filter, input limiter, and input gain settings of 26dB, 32dB, 38dB, or 1.4V. Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Temperature, Output Current, Output Signal, and Clipping/Mute status per channel. The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, fault condition logic outputs, optional network audio and AES3 digital audio capability with the addition of a 4-Channel DAC card. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <22.7 lbs (10.3kg), measure 19"W x 3.5"H x 16.8"D (483mm x 89mm x 428mm), and mount in a standard 19" rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.
The power amplifier shall be an Ashly nXe4002.

The unit shall be a 2 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 800W per channel at Low Z, 70V, and 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply shall auto-detect 110 – 120VAC or 220 – 240VAC mains, and a Neutrik® powerCON shall be used for the AC cord. Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel.

Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel.

The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, fault condition logic outputs, optional network audio and AES3 digital audio capability with the addition of a 4-Channel DAC card. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <25.9 lbs (11.7kg), measure 19”W x 3.5”H x 16.8”D (483mm x 89mm x 428mm), and mount in a standard 19” rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly nXe8004.

The unit shall be a 4 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 800W per channel at Low Z, 70V, and 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply shall auto-detect 110 – 120VAC or 220 – 240VAC mains, and a Neutrik® powerCON shall be used for the AC cord. Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel.

Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel.

The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, fault condition logic outputs, optional network audio and AES3 digital audio capability with the addition of a 4-Channel DAC card. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <25.9 lbs (11.7kg), measure 19”W x 3.5”H x 16.8”D (483mm x 89mm x 428mm), and mount in a standard 19” rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly nXe8002.

The unit shall be a 2 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 400W per channel at Low Z, 70V, and 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply shall auto-detect 110 – 120VAC or 220 – 240VAC mains, and a Neutrik® powerCON shall be used for the AC cord. Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel.

Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel.

The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, fault condition logic outputs, optional network audio and AES3 digital audio capability with the addition of a 4-Channel DAC card. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <22.2 lbs (10.1kg), measure 19”W x 3.5”H x 16.8”D (483mm x 89mm x 428mm), and mount in a standard 19” rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly nXe4004.

The unit shall be a 4 channel multi-mode amplifier capable of driving 2 Ohm loads at full power. The maximum rated output power shall be 400W per channel at Low Z, 70V, and 100V mode. There shall be an automatic but defeatable sleep mode consuming <1W, and instant standby mode controlled by contact closure or software. A switch mode power supply shall auto-detect 110 – 120VAC or 220 – 240VAC mains, and a Neutrik® powerCON shall be used for the AC cord. Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel.

Each channel shall have remote DC level control. Input connectors shall be Neutrik® XLR/TRS combo jack and Euroblock, while output connectors shall be Neutrik® speakON. The unit shall have a front panel power switch and level controls that can be disabled. LEDs shall indicate Protect, Sleep, Disabled, Com, and Bridge mode status, as well as Temperature, Output Current, Output Signal, and Clipping/Mute status per channel.

The unit shall have Ethernet control with a real-time clock for event scheduling. The unit shall have serial data remote control, aux preamp outputs, preset control, fault condition logic outputs, optional network audio and AES3 digital audio capability with the addition of a 4-Channel DAC card. The amplifier shall have temperature dependent variable speed forced-air cooling. The unit shall weigh <22.2 lbs (10.1kg), measure 19”W x 3.5”H x 16.8”D (483mm x 89mm x 428mm), and mount in a standard 19” rack. There shall be a five year warranty for units purchased in the US. No other unit shall be acceptable unless all specifications represented herein are met or exceeded and submitted in writing by an independent testing agent.

The power amplifier shall be an Ashly nXe4002.