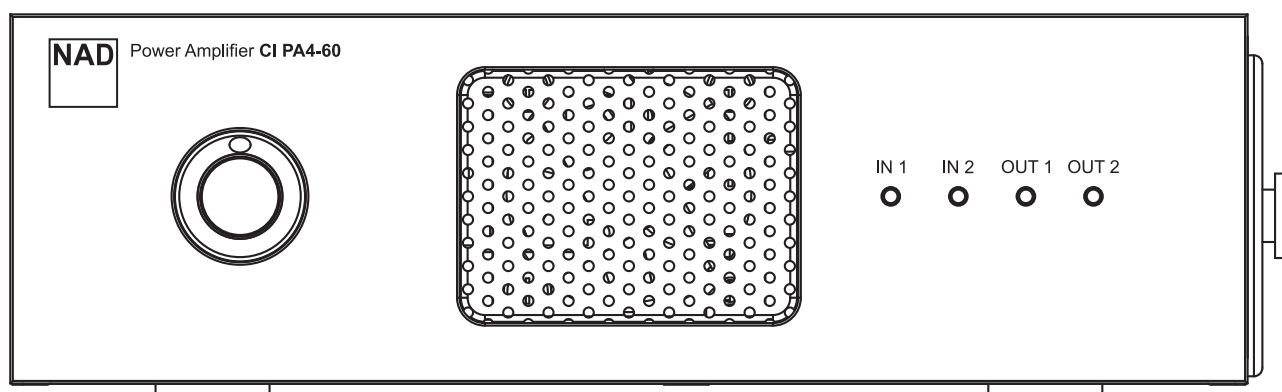




CI PA4-60


Power Amplifier

ENGLISH



Owner's Manual

IMPORTANT SAFETY INSTRUCTIONS

- **Read instructions** - All the safety and operating instructions should be read before the product is operated.
- **Retain instructions** - The safety and operating instructions should be retained for future reference.
- **Heed Warnings** - All warnings on the product and in the operating instructions should be adhered to.
- **Follow Instructions** - All operating and use instructions should be followed.
- **Cleaning** - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- **Attachments** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- **Water and Moisture** - Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- **Accessories** - Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
-  **Cart** - A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
- **Ventilation** - Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- **Power Sources** - This product should be operated only from the type of power source indicated on the marking label and connected to a MAINS socket outlet with a protective earthing connection. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.
- **Power Cord Protection** - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- **Mains Plug** - Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- **Outdoor Antenna Grounding** - If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
- **Lightning** - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- **Power Lines** - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- **Overloading** - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- **Flame Sources** - No naked flame sources, such as lighted candles, should be placed on the product.
- **Object and Liquid Entry** - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- **Damage Requiring Service** - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power-supply cord or plug is damaged.
 - If liquid has been spilled, or objects have fallen into the product.
 - If the product has been exposed to rain or water.
 - If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance-this indicates a need for service.
- **Replacement Parts** - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- **Safety Check** - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

WARNING



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.



WARNING : SHOCK HAZARD - DO NOT OPEN
ATTENTION : RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR

CAUTION REGARDING PLACEMENT

To maintain proper ventilation, be sure to leave a space around the unit (from the largest outer dimensions including projections) than is equal to, or greater than shown below.

Left and Right Panels: 10 cm

Rear Panel: 10 cm

Top Panel: 10 cm

RESPONSIBLE PARTY

Lenbrook International
 633 Granite Court
 Pickering, ON L1W 3K1
 Canada
 Tel: 1 905 8316555

CAN ICES-3 (B)/NMB-3(B)

This Class B digital apparatus complies with Canadian ICES-3

EU CONFORMITY STATEMENT

This product and, if applicable, the supplied accessories are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Radio Equipment Directive 2015/35/EU and EMC Directive 2014/30/EU.



FCC STATEMENT

This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

CAUTION

- Changes or modifications to this equipment not expressly approved by NAD Electronics for compliance could void the user's authority to operate this equipment.
- This device complies with Part 15 of the FCC Rules / Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
 - 1 This device may not cause harmful interference, and
 - 2 This device must accept any interference received, including interference that may cause undesired operation.
- This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment.
- Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.
- To prevent electric shock, match wide blade of plug to wide slot, fully insert.
- Marking and rating plate can be found at the rear panel or bottom panel of the apparatus.
- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.
- Mains plug is used as disconnect device and it should remain readily operable during intended use. In order to disconnect the apparatus from the mains completely, the mains plug should be disconnected from the mains socket outlet completely.
- An appliance with a protective earth terminal should be connected to a mains outlet with a protective earth connection.
- The device for operation in the band 5150–5250 MHz is for indoor use only to reduce the potential for harmful interference to co-channel mobile satellite systems.
- Operating temperature: 0 – 40 °C

IF IN DOUBT CONSULT A COMPETENT ELECTRICIAN.

NOTES ON ENVIRONMENTAL PROTECTION



At the end of its useful life, this product must not be disposed of with regular household waste but must be returned to a collection point for the recycling of electrical and electronic equipment. The symbol on the product, user's manual and packaging point this out.

The materials can be reused in accordance with their markings. Through re-use, recycling of raw materials, or other forms of recycling of old products, you are making an important contribution to the protection of our environment.

Your local administrative office can advise you of the responsible waste disposal point.

INFORMATION ABOUT COLLECTION AND DISPOSAL OF WASTE BATTERIES (DIRECTIVE 2006/66/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF EUROPEAN UNION) (FOR EUROPEAN CUSTOMERS ONLY)



Pb



Hg

Cd

Batteries bearing any of these symbols indicate that they should be treated as "separate collection" and not as municipal waste. It is encouraged that necessary measures are implemented to maximize the separate collection of waste batteries and to minimize the disposal of batteries as mixed municipal waste.

End-users are exhorted not to dispose waste batteries as unsorted municipal waste. In order to achieve a high level of recycling waste batteries, discard waste batteries separately and properly through

an accessible collection point in your vicinity. For more information about collection and recycling of waste batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

By ensuring compliance and conformance to proper disposal of waste batteries, potential hazardous effects on human health is prevented and the negative impact of batteries and waste batteries on the environment is minimized, thus contributing to the protection, preservation and quality improvement of the environment.

GETTING STARTED

WHAT'S IN THE BOX

Packed with your CI PA4-60 you will find

- Two detachable mains power cord
- 2 pieces of 4-position terminal block (for Speakers)
- 1 piece of 4-position terminal block (for TRIGGER IN/OUT)
- 2 pieces of bracket (long)
- 2 pieces of bracket (short)
- 4 pieces of rubber feet
- Important Safety Instruction sheet
- Quick Setup Guide

QUICK START

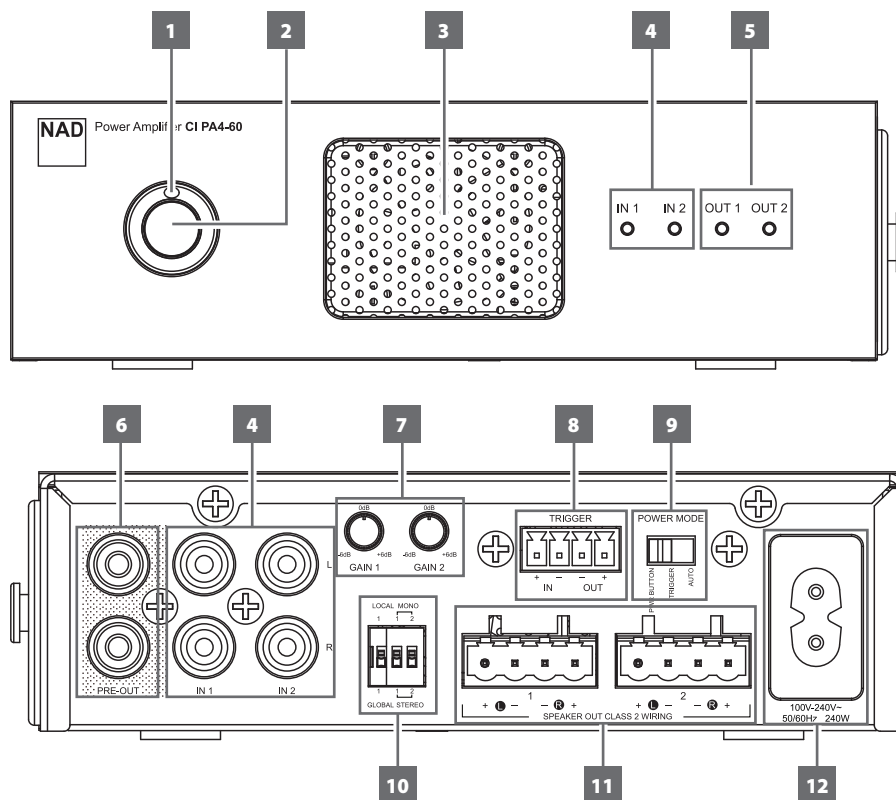
Refer to the supplied CI PA4-60 Quick Setup Guide for basic instructions in setting up your new NAD CI PA4-60. The following important notes must also be observed when setting up your CI PA4-60.

IMPORTANT SETUP NOTES

- Before setting up or making connections, ensure that the CI PA4-60 and other devices to be connected to CI PA4-60 are unplugged or powered down.
- Connect external speaker cables to supplied SPEAKER terminal blocks ensuring that the connections match CI PA4-60's rear panel SPEAKER OUT terminal markings.
- Bare wire or loose strands from the speaker cables must not touch the rear panel or other speaker terminals.
- After installing the external speaker cables to the supplied SPEAKER terminal blocks, plug in the wired-up SPEAKER terminal blocks to corresponding SPEAKERS (1, 2) rear panel terminals of CI PA4-60.
- Before connecting the power cord's plug to the mains power outlet, ensure that the other end of the power cord is firmly connected to CI PA4-60's AC Mains input socket.
- Press front panel POWER button to switch ON CI PA4-60 from standby mode. Input and Output channels with audio will have their corresponding front panel IN 1, IN 2, OUT 1 and OUT 2 LED indicators illuminated blue.

SAVE THE PACKAGING

Please save the box and all the packaging in which your CI PA4-60 arrived. Should you move or otherwise need to transport your CI PA4-60, this is by far the safest container to do so. We've seen too many otherwise perfect components damaged in transit for lack of a proper shipping carton, so please: Save that box!



ATTENTION!

Please ensure that the CI PA4-60 is powered off or unplugged from the mains power outlet before making any connections. It is also advisable to power down or unplug all associated components while making or breaking any signal or AC power connections.

1 POWER LED INDICATOR

- This indicator will light up amber when CI PA4-60 is at standby mode. When CI PA4-60 is powered up from standby mode, this indicator will illuminate blue.

LED STATUS INDICATORS

LED INDICATOR	LED INDICATOR COLOR	DESCRIPTION
POWER	Amber	Standby mode
	Blue	Operating mode
	Red	Booting
	Red	DC error
	Red	Under voltage
	Red	Over temperature
IN 1, IN 2	Blue	Active input signal
	Off	No active input signal
OUT 1, OUT 2	Blue	Active output signal
	Off	No active output signal
	Red	AMP current error
	Red	Over temperature
	Flashing Red	10 degrees below over temperature limit

DC ERROR

- Triggered when DC voltage is detected across the speaker terminals.

UNDER VOLTAGE

- Engaged when power supply voltage drops below 55V

OVER TEMPERATURE

- Activates when temperature exceeds 85°C.
- Resets when temperature drops below 70°C.

AMP CURRENT ERROR

- Triggered by a short circuit at the amplifier output

10 DEGREES BELOW OVER TEMPERATURE LIMIT

- Activates when temperature reaches 75°C (10°C below over temperature limit)

2 POWER BUTTON

- Press this button to switch ON CI PA4-60 from standby mode. The POWER LED indicator will turn from amber to blue.
- Pressing the POWER button again turns the unit back to standby mode. The POWER LED indicator will turn from blue to amber.

NOTE

The rear panel POWER MODE selector switch must be set to PWR BUTTON for the unit to power up via front panel POWER button.

3 FAN

The CI PA4-60 front panel features a cooling fan. Fan speed is automatically adjusted according to the following temperature thresholds:

- Low Speed:** The fan activates at 50°C and turns off when the temperature drops below 45°C.
- Medium Speed:** The fan activates at 60°C and shifts back to low speed if the temperature falls below 55°C.
- High Speed:** The fan activates at 70°C and returns to medium speed when the temperature drops below 65°C.

4 IN 1, IN 2

- The IN 1 and IN 2 LED indicators on the front panel will illuminate blue when there is an active input signal present at their respective rear panel input ports (IN1 and IN2). If no active input signal is detected at either port, the corresponding LED indicator will remain unlit.

IDENTIFICATION OF CONTROLS

5 OUT 1, OUT 2

- OUT 1 and OUT 2 correspond to SPEAKER OUT 1 and SPEAKER OUT 2 terminals on the rear panel. When audio is present at SPEAKER OUT 1 or 2, the matching OUT 1 or OUT 2 LED indicators on the front panel will illuminate blue. If no audio is detected, the corresponding LED indicator will remain unlit.

6 PRE-OUT

- The PRE-OUT terminals provide a line-level "loop through" output, allowing the input signal from IN 1 to be sent to another device such as an additional amplifier or receiver.
- The output signal level at the PRE-OUT matches the input signal from IN 1, enabling the same source to be shared with other equipment.
- The PRE-OUT remains active even when the CI PA4-60 is in Standby mode.

USING PRE-OUT IN A DAISY-CHAIN SETUP (WITH GLOBAL/LOCAL SETTING)

To distribute a single source to more than four output channels, two CI PA4-60 amplifiers can be daisy-chained, creating an effective 8-channel system.

- Connect your audio source to IN 1 of the first CI PA4-60.
- Set the first CI PA4-60's GLOBAL/LOCAL switch to GLOBAL so the source plays on all four channels.
- Use an RCA cable to connect PRE-OUT from the first CI PA4-60 to IN 1 of the second CI PA4-60.
- Adjust the second CI PA4-60's GLOBAL/LOCAL setting to achieve either six or eight output channels from the same source.

7 GAIN 1, GAIN 2

- Gain refers to the adjustment of the input signal level before it is processed or amplified. Proper input gain ensures the signal is strong enough to maintain quality without introducing distortion or unwanted noise. It sets the foundation for clean and balanced audio by establishing the correct initial signal strength.
- If there are inconsistencies with signal sensing, the input gain should be increased. It is recommended to initially set the gain to maximum. If any unwanted noise is introduced, gradually reduce the level until the noise disappears—this represents the optimal gain setting for that source. Input gain can also be used to balance audio levels across multiple sources with varying output levels.
- To adjust the gain level for IN1 and IN 2, rotate GAIN 1 or GAIN 2 control knobs clockwise to increase or counterclockwise to decrease the input gain.

8 TRIGGER

TRIGGER IN/OUT +/-

- Use the supplied TRIGGER terminal block to connect TRIGGER IN/OUT +/- terminals to corresponding terminals of compatible external +12V TRIGGER source. Install the wired-up TRIGGER terminal block to CI PA4-60's TRIGGER IN/OUT +/- rear panel terminals.

TRIGGER IN +/-

- The TRIGGER IN allows the CI PA4-60 to be remotely switched between standby and operating modes by the external controlling device connected to TRIGGER IN.
- The external controlling device, such as compatible preamplifiers, integrated amplifiers, receivers, etc., must be equipped with +12V trigger output to use this feature.

TRIGGER OUT +/-

- The TRIGGER OUT is used for controlling external equipment equipped with a +12V trigger input. This output will be 12V when the CI PA4-60 is ON and 0V when it is at standby mode.

9 POWER MODE

The CI PA4-60 offers three selectable power modes for flexible operation. To choose a mode, slide the POWER MODE selector switch to any of the following settings:

- Power Button
- Trigger
- Auto

a POWER BUTTON

- This is the default setting. The CI PA4-60 is powered on and off manually by pressing the POWER button located on the front panel.

b TRIGGER

- The CI PA4-60 powers on or off based on the presence or absence of a +12V DC signal at the TRIGGER IN terminals.
- The amplifier can be remotely switched between standby and operating modes by a compatible external device connected to the TRIGGER IN +/- terminals (refer also to item about TRIGGER IN +/-).

c AUTO

- This feature uses signal sensing to manage power.
- The Auto mode enables the CI PA4-60 to automatically transition from standby to operating mode when triggered by an active line input signal.
- When an input signal is detected on Input IN 1 or IN 2, the amplifier will power on automatically.
- If no input signal is present for a continuous period of 15 minutes, the amplifier will return to standby mode.

10 LOCAL 1/GLOBAL 1, MONO/STEREO

LOCAL 1/GLOBAL 1 Configuration

LOCAL 1

- Input IN 1 is routed to SPEAKER OUT 1.
- Input IN 2 is routed to SPEAKER OUT 2.
- Each input is independently routed to its corresponding output.

GLOBAL 1

- Input IN 1 is routed to both SPEAKER OUT 1 and SPEAKER OUT 2, enabling a single input source to drive all four speaker channels.
- Any MONO/STEREO setting applied to IN 1 will also be applied across both outputs.

MONO/STEREO Output Modes

Default Configuration

- Inputs IN 1 and IN 2 are set to STEREO 1 and STEREO 2, respectively.

Mono Output Selection

- To output a mono signal, set the switch to MONO 1 and/or MONO 2.
- This configuration sums the left and right channels of the selected input into a single mono output.

11 SPEAKER OUT 1, SPEAKER OUT 2

- The supplied SPEAKER terminal blocks support wire sizes up to 10 AWG (American Wire Gauge). Refer to the table below for additional guidance on AWG sizes and recommended wire lengths.

SPEAKER WIRE GAUGE	MAXIMUM SPEAKER WIRE LENGTH		
	4 Ohms Speakers	6 Ohms Speakers	8 Ohms Speakers
18 AWG	16 feet	24 feet	32 feet
16 AWG	24 feet	36 feet	48 feet
14 AWG	40 feet	60 feet	80 feet
12 AWG	60 feet	90 feet	120 feet
10 AWG	100 feet	150 feet	200 feet

- Connect external speaker cables to supplied SPEAKER terminal blocks ensuring that the connections match CI PA4-60's SPEAKER OUT terminal markings.
- To illustrate, connect CI PA4-60 "1L+" terminal to corresponding "+" terminal of your external speaker and "1L-" connected to external speaker's "-" terminal. Follow the same connection configuration when connecting SPEAKER OUT terminals 1R-, 1R+, 2L+, 2L-, 2R-, and 2R+.
- After installing the external speaker cables to the supplied SPEAKER terminal blocks, plug in the wired-up SPEAKER terminal blocks to corresponding SPEAKER OUT (1- 2) terminals of CI PA4-60.

12 AC MAINS INPUT

- The CI PA4-60 comes supplied with two separate AC power cords. Select the AC power cord appropriate for your region.
- Before connecting the power cord's plug to the mains power outlet, ensure that the other end of the power cord is firmly connected to CI PA4-60's AC Mains input socket.
- Always unplug the power cord from the mains power source first, before disconnecting the other end from the CI PA4-60's AC Mains input socket.

DYNAMIC POWER MANAGEMENT

CI PA4-60 features an intelligent Dynamic Power Management system that maximizes available power based on connected speaker loads—without the need for bridging. With 240W of total power available, integrated current sensors monitor each output channel and automatically distribute power where it's needed.

For example, if a load is detected on SPEAKER OUT 1, the amplifier delivers the full 120W per channel. When a load is detected also on SPEAKER OUT 2, a precision DSP limiter is engaged, reallocating the power evenly—60W per channel—across both outputs. This dynamic approach ensures optimal efficiency and full utilization of the amplifier's power, regardless of how many channels are in use.

Unlike traditional bridging, this system requires no special wiring and maintains consistent performance by preserving load impedance and damping factor. The amplifier is also fully stable into 4-ohm loads across all configurations, making it a robust solution for flexible installations.

DYNAMIC POWER MANAGEMENT

Each output pair is equipped with current sensors that intelligently detect the presence of a speaker load. Based on this detection, the amplifier dynamically allocates available power for optimal performance—no manual setup or bridging required.

The table below illustrates how power is routed depending on which outputs are active.

SPEAKER OUT 1		SPEAKER OUT 2	
Left Channel	Right Channel	Left Channel	Right Channel
60W	60W	60W	60W
120W	120W	No load	No load
No load	No load	120W	120W
>200W	No load	No load	No load
No load	>200W	No load	No load
No load	No load	>200W	No load
No load	No load	No load	>200W

NOTE

>200W in Mono is only available into 4 ohms load.

HEAT OUTPUT (BTU)

CONDITION		230V/50HZ			120V/60HZ		
		INPUT POWER (W)	OUTPUT POWER TO SPEAKER (W)	HEAT OUTPUT (BTU/HR)	INPUT POWER (W)	OUTPUT POWER TO SPEAKER (W)	HEAT OUTPUT (BTU/HR)
Eco mode Standby Power at 8 ohms		0.24	-	0.82	0.21	-	0.72
Idle power at 8 ohms		12.76	-	-	14.06	-	-
Output power at 8 ohms, all channels driven	1/8 rated power	60.53	7.5	180.95	61.20	7.5	183.23
	1/3 rated power	115.77	20	326.78	118.41	20	335.79
	1/2 rated power	161.95	30	450.23	164.16	30	457.77
	Full rated power	295.67	60	804.14	304.80	60	835.29
Output power at 4 ohms, all channels driven	1/8 rated power	60.45	7.5	180.67	60.72	7.5	181.59
	1/3 rated power	119.91	20	340.91	119.20	20	338.48
	1/2 rated power	164.39	30	458.56	164.98	30	460.57
	Full rated power	300.45	60	820.45	309.03	60	849.73
Output power at 8 ohms, two channels driven	1/8 rated power	54.04	15	133.21	54.56	15	134.98
	1/3 rated power	110.20	40	239.53	110.18	40	239.46
	1/2 rated power	154.02	60	320.81	154.34	60	321.90
	Full rated power	287.62	120	571.94	290.17	120	580.64
Output power at 4 ohms, two channels driven	1/8 rated power	54.10	15	133.41	54.82	15	135.87
	1/3 rated power	111.79	40	244.96	110.86	40	241.78
	1/2 rated power	157.48	60	332.62	156.74	60	330.09
	Full rated power	296.15	120	601.05	297.50	120	605.65



www.NADelectronics.com

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