

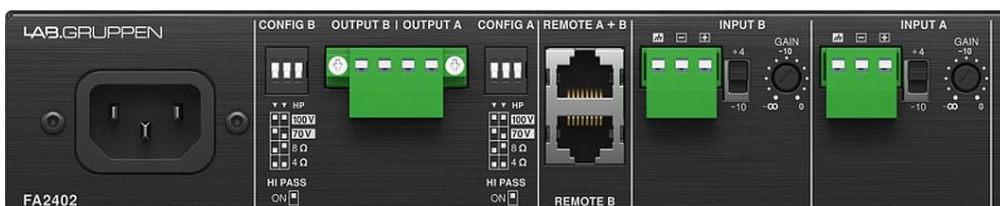
FA2402



2 x 240 Watt Commercial Amplifier with Direct Drive Technology and Energy Star Certification

Product Overview

2 x 240 Watt dual-channel Amplifier provides the perfect solution for commercial and industrial applications requiring great sounding distributed audio coupled with power conservation and reduced operating expense. Capable of delivering high-quality sound over both Low-Z (4/8 Ohm) and High-Z (70/100 V) loudspeaker configurations offering extreme flexibility on every channel. FA2402 is easy to install and operate – even for non-technical personnel. Simply put, the FA2402 is ideal-suited for bars & restaurants, retail destinations, hotels, corporate, education or other venues needing background music and/or a public address system.



Product Features

2 x 240 Watt amplifier for commercial and industrial applications

Low-Z (4/8 Ohm) and High-Z (70/100 V) operation per output with switchable high-pass filter

Energy Star * certified design conserves energy and drastically reduces operational cost

Direct drive, constant power technology for superior audio performance and reliability

GPI remote volume control using standard RJ-45 connector and Ethernet cable

Auto Ramp circuitry for quiet and fast power up/down enables real-world energy savings

Tamperproof gain controls for each channel on rear panel location

Rack-mountable 1U, half-rack width enclosure with joining brackets for rack, table and wall mounting

Euroblock type amplifier input and output connectors

Convection-cooled, fan-less amplifier technology for low noise

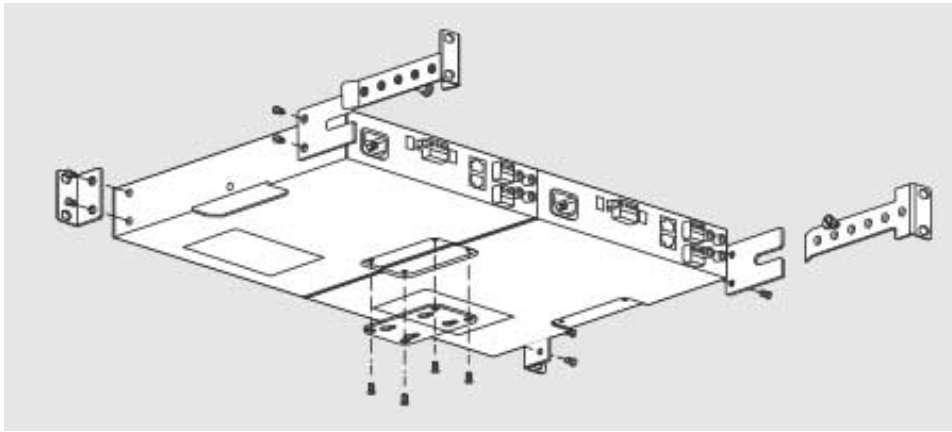
Comprehensive fail safe circuit protection ensures continued operation

Automatic Power On/Off

The FA2402 has a flexible power scheme with seamless and automatic power on/off based on the input signal, which reduces consumption when a signal is not present. With virtually zero configuration required, an energy smart and hassle-free amplifier system can easily be set up for hands-off operation. If the FA2402 is powered on but does not receive an input signal for 20 minutes, the system automatically enters sleep mode to reduce power consumption. As soon as the Auto Ramp circuit detects a signal, the system powers on and normal operation resumes. The amplifier can also be instantly forced into standby mode or awakened via the front panel power button.

Expandable Remote Control

The RJ45 receptacle on the rear panel opens up a broad range of remote control options, including the CRC-V Series of wall controllers and a stylish tabletop controller, the LAB.LEVEL. All can be interconnected via inexpensive and readily-available Ethernet cabling.



Easy to install

The FA2402 comes equipped with rubber feet, enabling the amps to be placed on a desk, shelf or any clear surface without any additional installation requirements. However, optional rack mounting hardware is also supplied, allowing one or several models to be housed and protected inside an enclosure. This adds extensive flexibility as a single product can be housed in a half 19" rack or full rack enclosure as well as a pair of amplifiers can easily be mounted side-by-side in a single rack space. With the included brackets the unit can also be mounted to a wall or under a table/shelf.

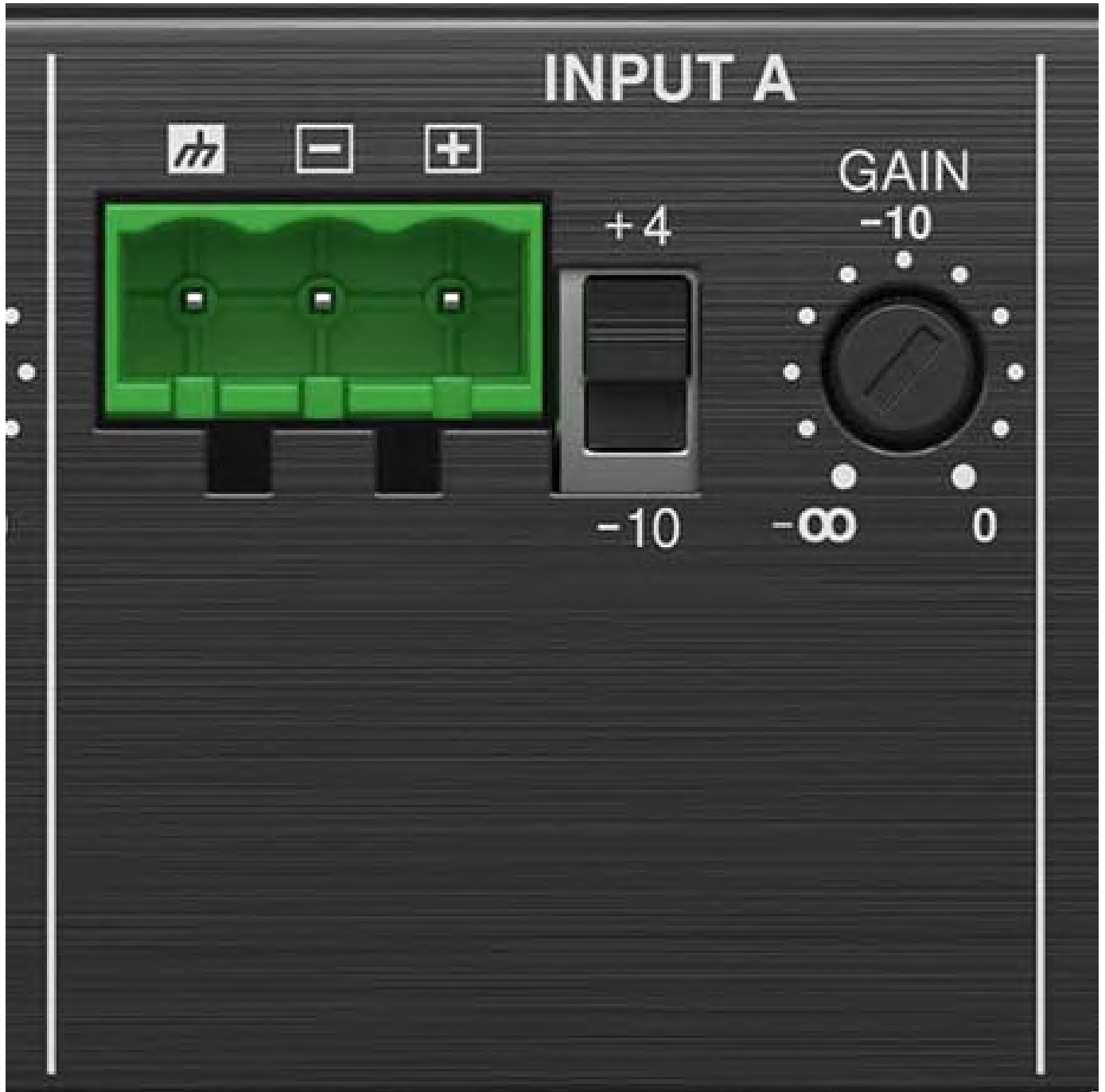
Energy Star * Certified

Not only does FA2402's direct drive constant power technology provide superior audio performance and reliability, it also consumes less mains power than competing models, which has earned it Energy Star * certification.

This amazing technology makes it possible to design and build powerful amplifier systems that not only save money on the electrical bill, but also reduce the requirements and cost at the installation for the mains supply. In fact, it is likely that installation can be done utilizing the in-place mains infrastructure. This adds up to significant installation and operational savings and protects the environment.

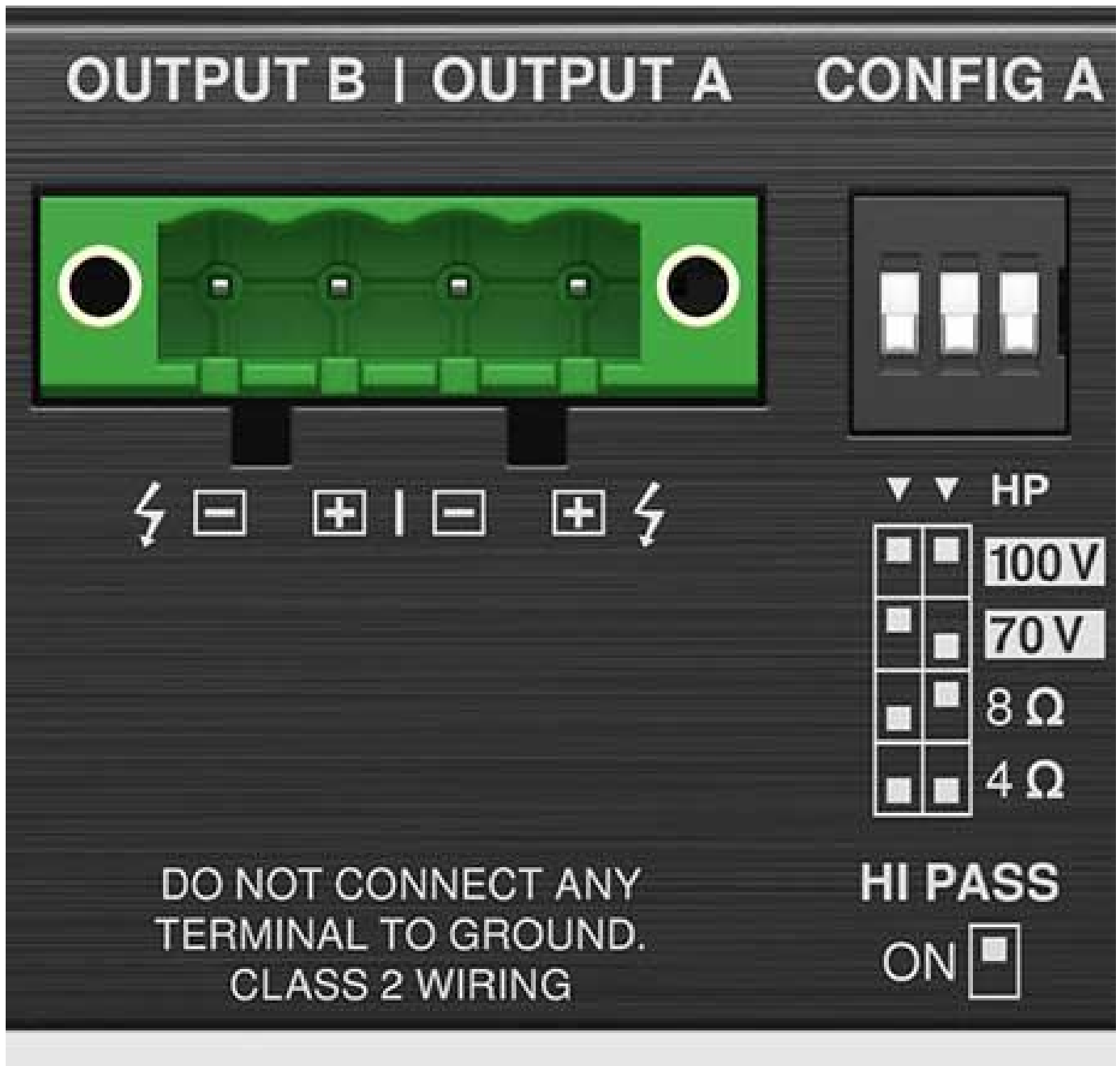
Real-World Energy Savings

The FA2402 2 X 240Watt Commercial Amplifier makes it easy to bring highest-quality music and announcements to business and industrial environments in an easy to integrate – and even easier to operate system. Plus, with features such as its Auto Ramp and revolutionary direct drive constant power technology, the Energy Star certified FA2402 can generate enough energy savings to pay for itself in virtually no time at all.



Tamperproof Gain Controls

FA2402's input gain controls are placed on the rear panel for tamperproof operation. Available for adjustment – but require a tool when making changes.



Output Configuration

Intuitive configuration of the flexible output channels is provided directly adjacent to the rear panel Euroblock output connector with dipswitches, which allow selection of 100 V, 70 V, 8 Ω, or 4 Ω operation. This configures both the maximum voltage of the output and the gain through the device. An individual control engages the built-in high-pass filter, which should be used on all constant voltage systems to avoid saturation on transformer-enabled loudspeakers and to help maintain sound integrity.

Specifications

Maximum Output Power

4 or 8 Ω per channel 240 W

Number of Output Channels

Number 2

Minimum Load Impedance

4 Ω mode 4 Ω

8 Ω mode 8 Ω

70 V output mode 20 Ω

100 V output mode 41 Ω

Controls

Front N/A

Rear Gain control, input sensitivity select (4 dBu / -10 dBV), load config (4 Ω / 8 Ω / 70 V / 100 V), switchable 80 Hz high-pass filter

Indicators

Power On (blue), standby (yellow)

Limit (red LED), per channel Input clip, output limit

Signal (green LED), per channel >1.23 mV (-56 dBu)

Fault (red LED) Overheat, DC fault, over current etc

System

Inputs 2 x 3-pin 5.08 mm Euroblock connector

Input impedance 10 k Ω unbalanced, 20 k Ω balance

Input sensitivity Balanced: 1.23 V (+4 dBu) or 316 mV (-10 dBV)

Maximum input level 9.75 V (+22 dBu)

Outputs 1 x 4-pin 5.08 mm Euroblock connector

Output circuit type Class D

Remote connector 2 x RJ45 Ethernet connector

Performance

Distortion, 1/8 rated power	<0.5%
Frequency response	20 Hz to 20 kHz, +0.5 / -1 dB
Crosstalk	>65 dB
Signal-to-noise	>100 dBA
High-pass filter	80 Hz HPF

Circuit Protection

Cooling	Convection-cooled, fanless
Amplifier protection	Thermal protection, over current protection, DC protection, high frequency protection
Load protection	Controlled start and shutdown behaviour, DC-fault protection

Power Supply, Voltage

Main voltage	100-240 V~, 50/60 Hz with active power factor correction
Power consumption 1/8th rated power @ 4 Ω	120 W
Mains connector	Standard IEC connector

Dimensions / Weight

Dimensions (H x W x D)	44 x 218 x 280 mm (1.7 x 8.6 x 11.0")
Weight	2.6 kg (5.7 lbs)
Finish	Brushed black anodized aluminum chassis with black painted steel bottom
Approvals	CE, WEEE, CCC, cTUVus, PSE, RCM, RoHS, FCC part 15 Class B, Energy Star 3.0

LAB.GRUPPEN