

Installation Amplifiers 2G

Product Information Guide



Introducing the new Installation Amplifiers 2G

The range offers four new design configurations. Each is engineered to offer quick and easy installation. With a myriad of setup options via the intuitive web App Configurator, wireless connectivity, powerful amplification, plus exceptional sound performance; as you would expect from Monitor Audio, the amplifiers will work within any smart home installation.

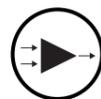
Reliable power, total performance and lifelike sound.
Custom Installation Easy.



Power Sharing



70/100V
Line Support



Class D
Amp



Fully
Customisable
DSP



5 Year
Warranty



WiFi



Web
Configurator



Third-party
Automation
Support



Analogue &
Digital Input

New Range

Four new high-performance amplifier designs

- Configurable DSP for ease of use, reliability and overall performance, through optimising the speaker into any environment
- An intuitive web configuration tool, which aids simple, convenient setup; the configuration tool works across all web browsers to allow access from any platform – setup therefore is easy and straightforward with a host of additional options at a touch of a button
- Higher power density designs enable more channels to be placed into less space than ever before – keeping overall dimensions usable and convenient
- Power Sharing Technology allows flexible output across all channels
- Ethernet & Wi-Fi Connectivity with smart home control integration drivers are available



General purpose amplifier delivering 4x 60W (4/8 Ohm) or 2x 125W (4/8 Ohm & 70/100V) or Powershare 1x 250W (4/8 Ohm & 70/100V)



General purpose high power amplifier delivering 4x 125W (4/8 Ohm) or Powershare 2x 250W (4/8 Ohm & 70/100V)



High Power for Cinergy & Garden Subwoofers 2x 750W (4/8 Ohm) or Powershare 1x 1500W (4/8 Ohm & 70/100V)



Multi Channel Cinergy & High channel count 70/100V lines systems. 4x 750W (4/8 Ohm) or Powershare 2x 1500W (4/8 Ohm & 70/100V)



The IA60-12 powers up to 12 channels (6 stereo pairs) and is configurable to 1, 2, 3, 4, 5, 6, or 12 channels.

IA60-4 New model



IA125-4 New model



IA750-4 New model



IA750-2 New model



IA60-12 Current model



Naming

IA750-4

IA

750

-4

| Range | |
|-------|------------------------|
| IA | Installation Amplifier |

| Channel Power |
|---------------|
| 60 |
| 125 |
| 750 |

| No. of channels |
|-----------------|
| 2 |
| 4 |

Key features

Amplifiers

- High performance Class D amplifiers ensure excellent power and sound delivery
- Power Sharing technology, output channels can dynamically share power maximising the flexibility and output of each channel
- All models support 70/100V line level speakers when bridged
- All use Universal power supplier, in addition the IA750-2 & IA750-4 has PFC (Power Factor Correction)

Inputs

- RCA Inputs
- Balanced Inputs on Eurobloks supporting -10dBV, +4dBu, +14dBu & Microphone input levels

Flexible GPIO control

- Supports two wall panel volume controls
- 12V Trigger inputs and outputs
- Control switch assignable to Mute & Standby

IMS-4 digital connection

- Digital output on IMS-4 can be connected to the digital input on the installation amplifiers for improved sound quality

- Fully customisable DSP amplifiers with web configurator;
 - Setup and control the amplifier from any platform with real-time feedback
 - Mobile/tablet ready interface to allow easy system tuning while walking around the installation
 - Route any input to any output and create zones
 - 2ch Digital input/output allows daisy chaining amplifiers to create larger systems
 - Factory supplier Speaker Profiles to select Monitor Audio products
- Half width 1U rack format allows unique installation opportunities or high power density depending on how the product is mounted (8ch 1U Rack)
- Each Amplifier is built to last, and features a 5 Year warranty



IA60-4 Product Overview

A new entry-level, highly versatile, amplifier with 4 channels at 60W or 2 channels at 125W

Full DSP matrix configuration using the web app configurator on any platforms enabling the highest levels of system integration

Power sharing allows the output power to be dynamically shared from four channels at 60W each to a single channel at 250W

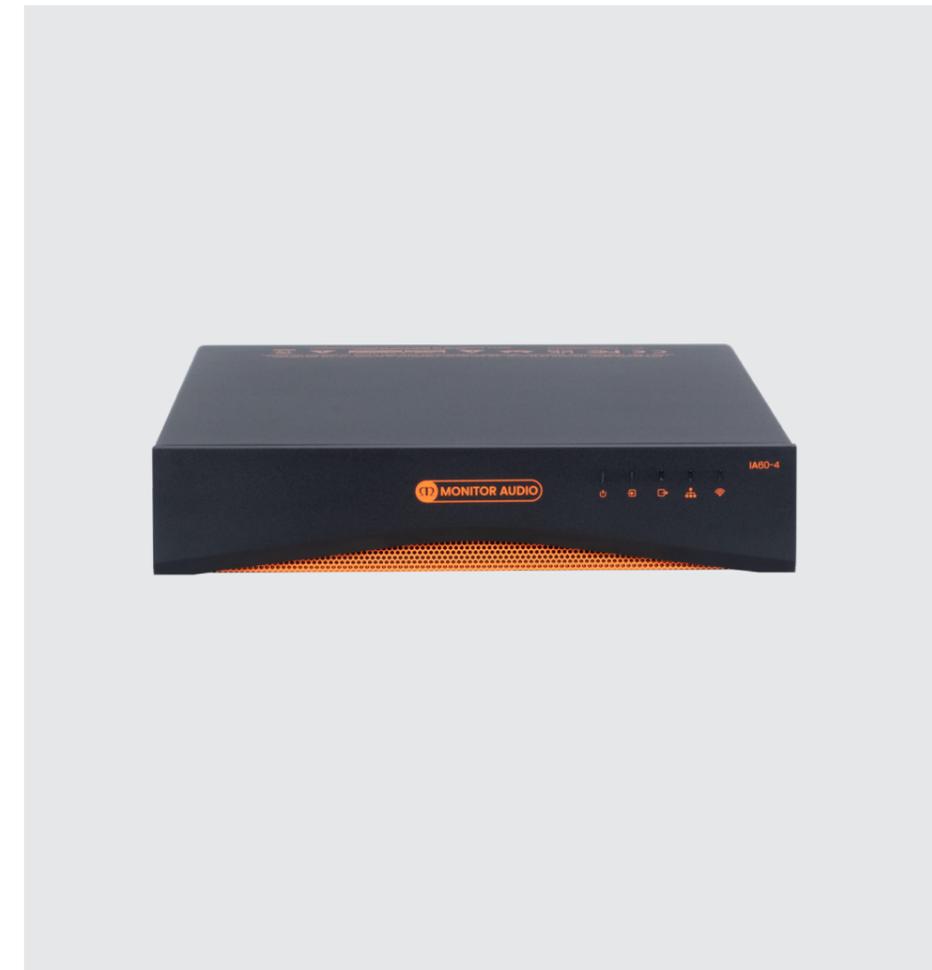
Primary application:

A capable amplifier for high-quality, high performance stereo applications:

- Tier 1: mid-performance 60W
- Tier 2/3: higher performance 125W
- Two Zone In-Ceiling system
 - Two stereo zones

Secondary application:

- Cinema Height channels, expand your receiver's performance
 - 4 height channels @ 60W
 - 2 height channels @ 125W
- Cinema Channels, upgrade your receiver's performance
 - Front Left & right using in-wall loudspeakers @250W
- Compact garden system @ 125W per bridged pair
 - Up to 3x CLG-140 on channel 1
 - CLG-W10



IA125-4 Product Overview

A new compact, ultra high power density amplifier. Mounting two in a 1U rack enables 8 channels at 125W or 4 channels at 250W

Full DSP matrix configuration using the web app configurator on any platforms enabling the highest levels of system integration

Power sharing allows the output power to be dynamically shared in pairs, each pair of channels has up to 250W available

Primary Application:

A capable amplifier for high-quality, high performance stereo applications:

- Tier 1: mid-performance 60W
- Tier 2/3: higher performance 125W
- Two Zone In-Ceiling system
 - Two stereo zones

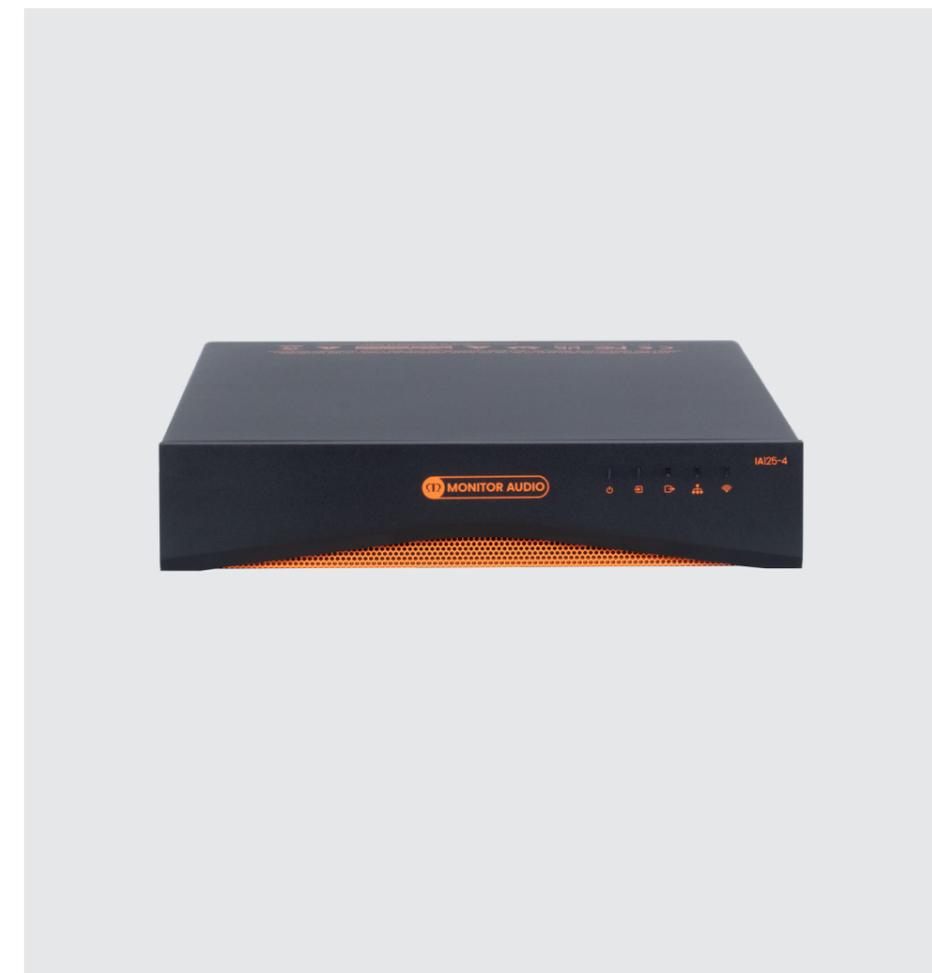
Secondary Application:

Cinema Height Channels

- 4x 125W height speakers (CP-CT380IDC)
- 2x 250W height speakers (PLIC)

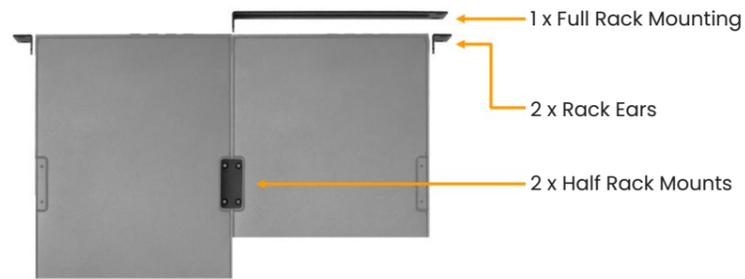
Small Cinergy Cinema

- C100 Channels can use power shared channels at 250W
- Medium garden system @ 250W per bridged pair
 - Up to 6x CLG-140 on channel 1
 - Up to 2x CLG-W10 (70/100V mode)
- Medium garden system (Stereo) @ 250W per bridged pair
 - Up to 6x CLG-140 on channel 1, LEFT
 - Up to 6x CLG-140 on channel 2, RIGHT



1U Half Size

- Rack Ears and Wall Mounts are not included in the box.
- Rack Ears and Full Rack Mounting brackets sold as an accessory. (Option 1)
- Wall/Desktop Mount bracket sold as an accessory (Option 2)
- All connectors & stick-on rubber feet comes in small separate bag, inside the unit carton.
- Silica Gel is included in the box.
- Quick Start Guide included in each box.



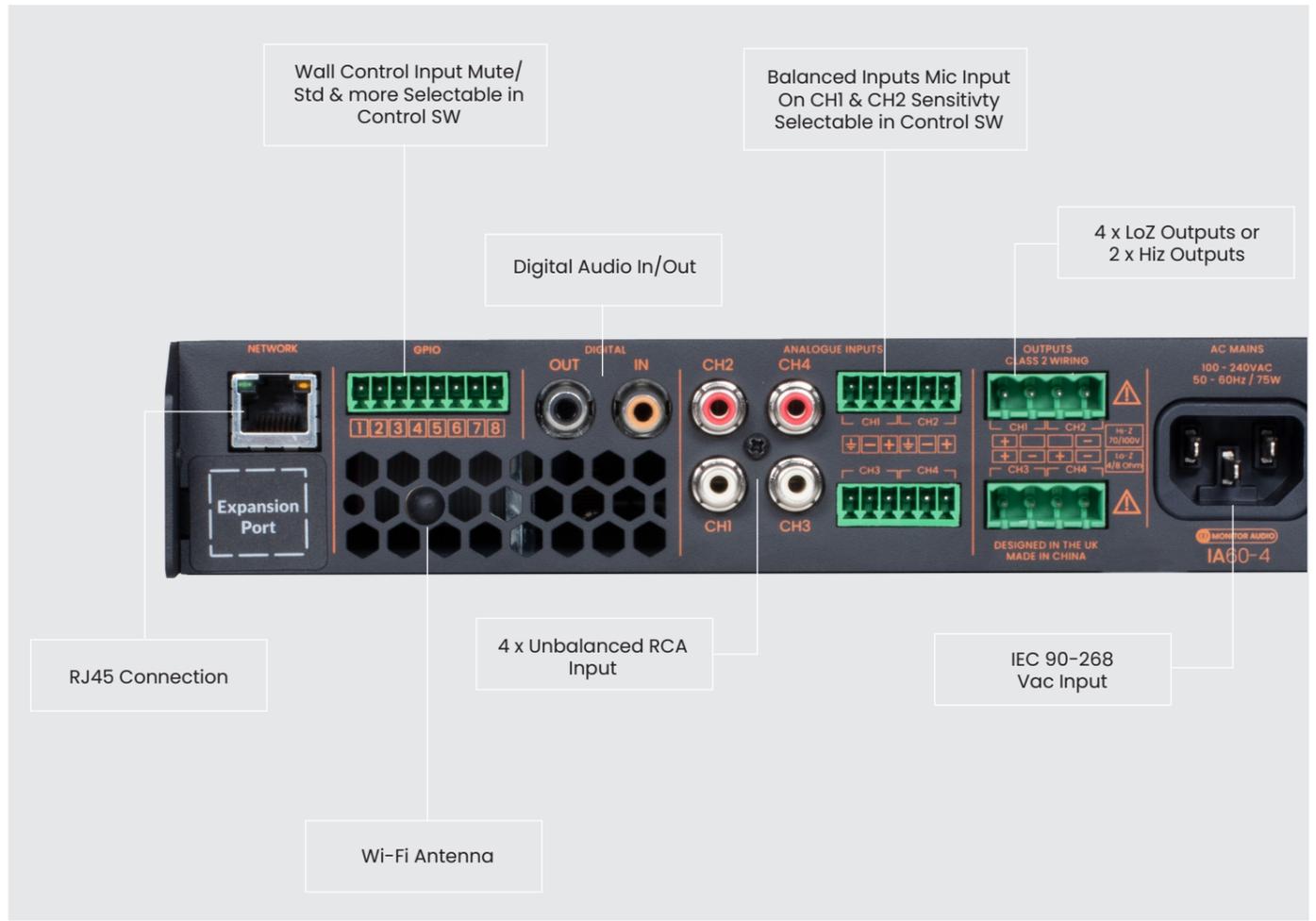
Rack Ears
Fits 10" rack, for small rooms



Full Rack Mounting
Allows the half unit to be mounted into a full width rack



- Signal Present/On – Orange
- Auto Standby – Breathing Orange
- Clipping– White
- Thermal Protection – White
- No Signal/Off – No Light



IA750-2 Product Overview

A 2U high power amplifier containing all the same features as the IA60-4 and IA125-4 but with even more power

IA750-2 is aimed at larger installations and outdoor systems using 70/100V line, as well as Subwoofer installations, using its advanced DSP and preconfigured speaker profiles

Primary Application:

Cinergy Subwoofer Amplifier

- 2x Cinergy Sub 15 750W each

OR

- 1x Cinergy Sub 15 1500W

Cinergy System

- 2x Cinergy 200 or Cinergy 300

Garden System Subwoofers

- 5x CLG-W10 OR 3x CLG-W12 on 1500W 70/100V line Level



IA750-4 Product Overview

A 2U high power amplifier containing all the same features as the IA60-4 and IA125-4 but with even more power

IA750-4 is aimed at larger installations and outdoor systems using 70/100V line, as well as Subwoofer installations, using its advanced DSP and preconfigured speaker profiles

Primary Application:

Large Garden System

- 18x CLG-140
- 5x CLG-W10

Large Garden System

- 12x CLG-160
- 3x CLG-W12

Large Cinergy System

- Speakers: 3x Cinergy 300, 4x Cinergy 200, 4x Cinergy Sub 15, 4x PLIC
- 4x IA750-4
- 8U rack with a total power of 12,000 Watt



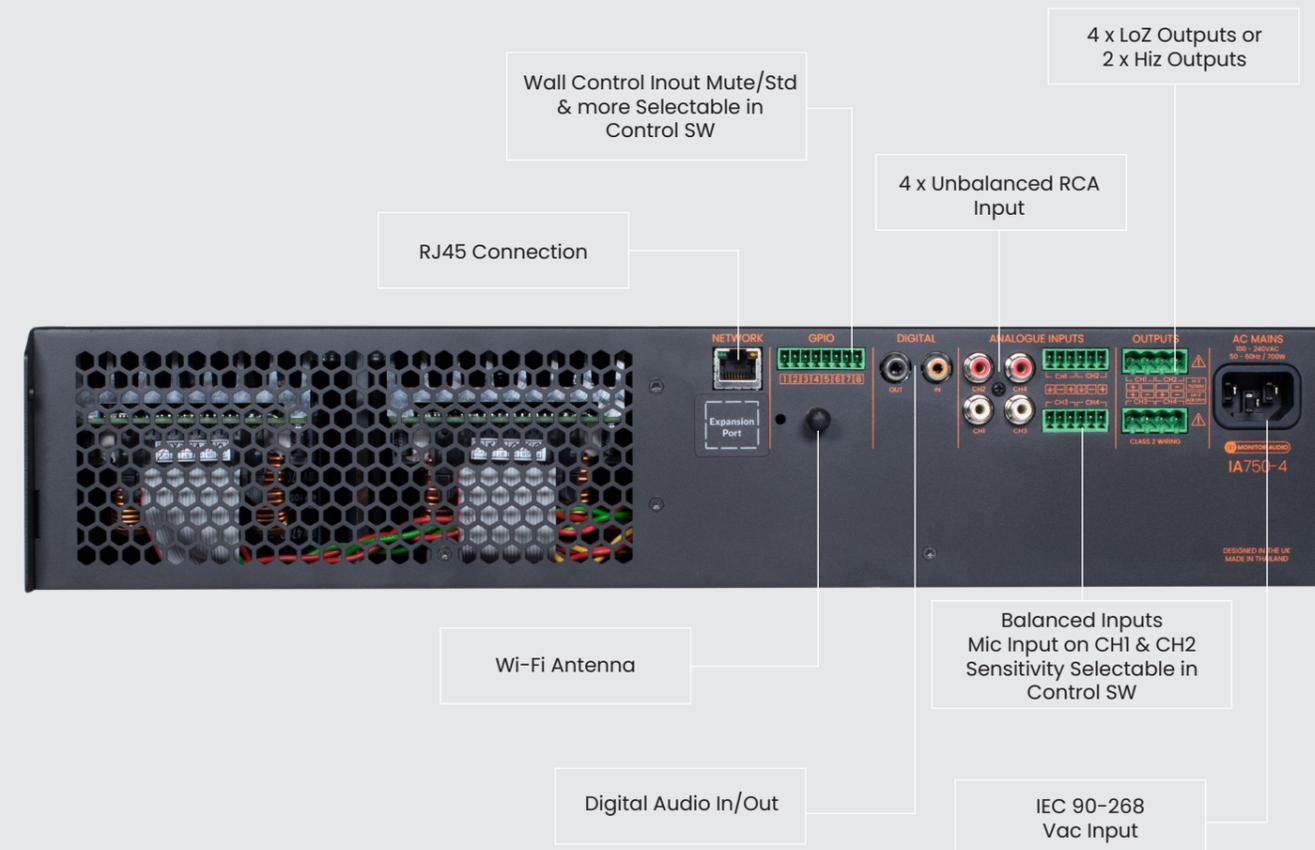
2U Full

- Rack-ears come pre-mounted
- All connectors & stick-on rubber feet comes in small separate bag, inside the unit carton
- Quick Start Guide included in each box

Rack Ears
Fits 10" rack, for small rooms



- Signal Present/On – Orange
- Auto Standby – Breathing Orange
- Clipping– White
- Thermal Protection – White
- No Signal/Off – No Light



Power Share Technology

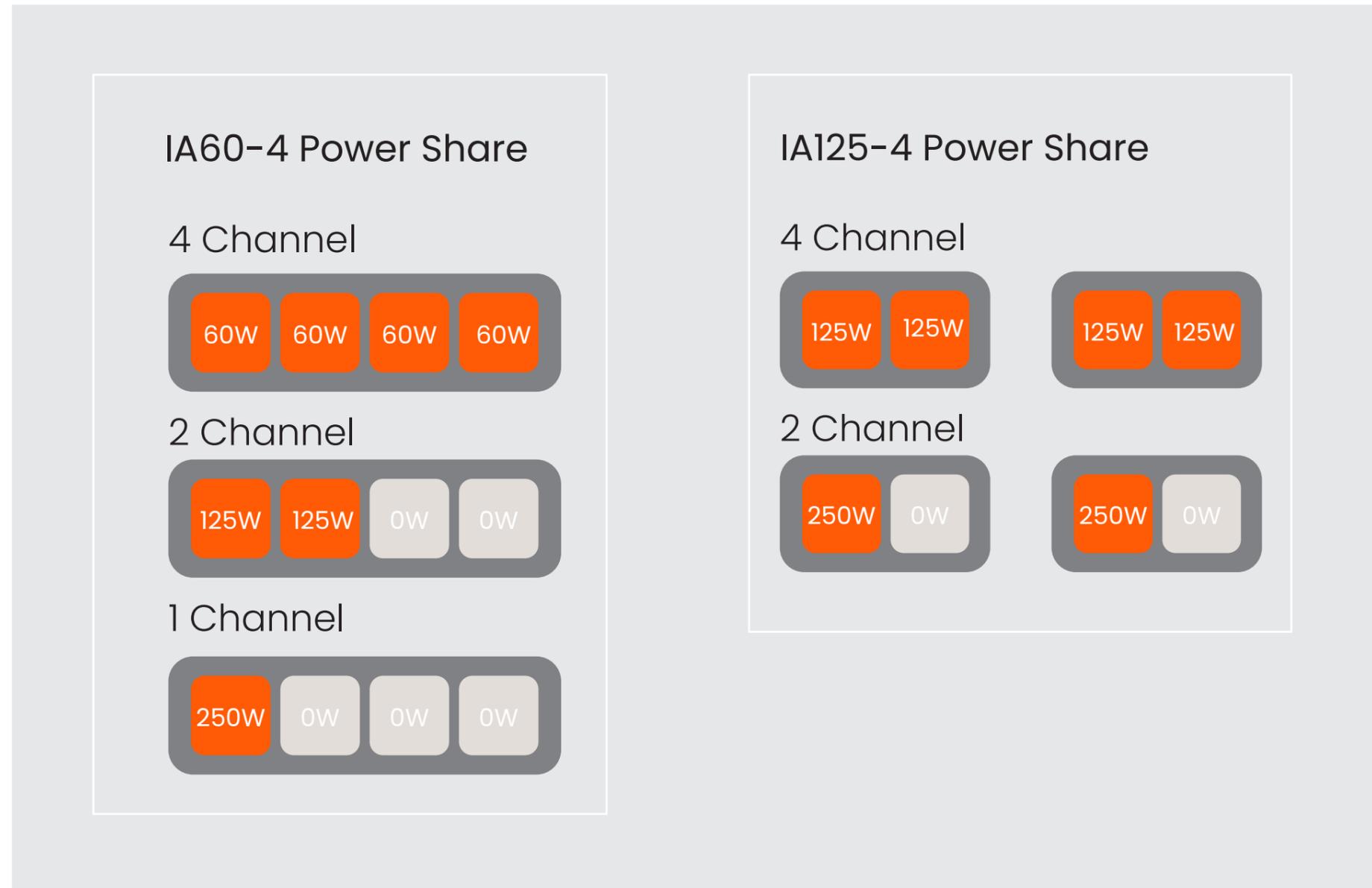
Power Share technology is an amplifier design that uses very high voltage rails to allow a single amplifier output stage to output the full output power of the system. A single channel is almost never limited by its voltage output but by its power supply (the high voltage rails are also what allow two bridged 60W amplifiers to drive a 100V line level speaker).

This simply means that for low impedance 4 & 8 Ohm speakers, the channels do not need to be bridged in order to deliver the highest power levels. This can improve overall sound quality, and also allows the power to be dynamically allocated.

It however opens up other opportunities for example;

Imagine a two zone installation using a IA60-4. Zone 1 left and right are connected to Channel 1 & 2 and Zone 2 left and right are connected to Channel 3&4.

If all four channels are playing then its output is 60W per channel. If zone 1 is playing, or zone 2 then the amp will deliver 125W per channel.



Note: Power Share operates for low impedance 4 & 8 Ohms speakers but channels must be bridged to create a 70V/100V line output.

Connecting

All new models have Wi-Fi.

Most installation amplifiers only have ethernet.

Strong use case:

You do not want to connect it to the main network, instead you can do a local access point with the amplifier and then walk around the house tuning the DSP or setting up advanced settings.

Other use cases:

If there is no Ethernet access, then the wi-fi can be used. If the amplifier is being integrated into a smart home control system then ethernet should always be used.

WiFi mode

| Access Point | Client |
|--|--------|
| <input style="width: 90%; height: 20px; background-color: #333; color: #ccc;" type="text" value="Access Point Name (SSID)"/> | |
| <input style="width: 90%; height: 20px; background-color: #333; color: #ccc;" type="password" value="Password"/> <input style="width: 90%; height: 20px; background-color: #333; color: #ccc;" type="password" value="Password"/> | |
| <div style="background-color: #007bff; color: white; padding: 5px 20px; display: inline-block; margin: 5px;">RESET</div> | |
| <div style="background-color: #28a745; color: white; padding: 5px 20px; display: inline-block; margin: 5px;">APPLY</div> | |

TCP/IP Control

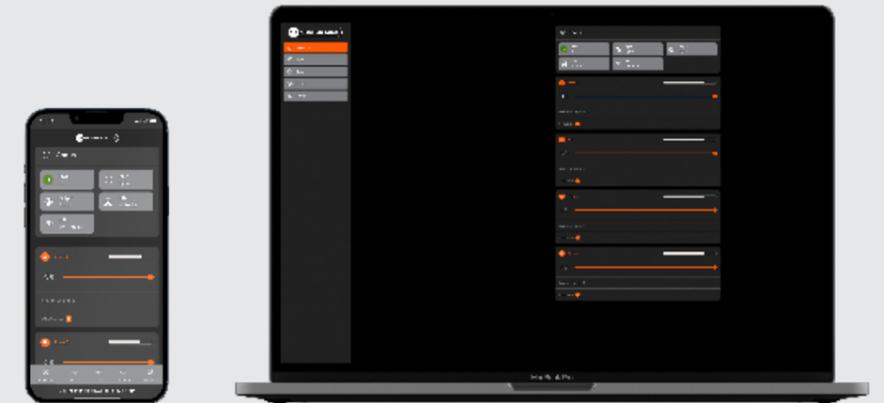
All new App configurator.

This allows you to utilise your most familiar Control Drivers for setup. Or use other drivers if there is demand and a full API is available for full custom integrations.

Monitor Audio's TCP/IP Control has drivers supporting;

- Crestron Home
- Crestron
- RTI
- Control 4

The benefit is complete ease of use and easy accessibility for setup; e.g. pre-configured EQ levels for select MA speakers for the integrator.



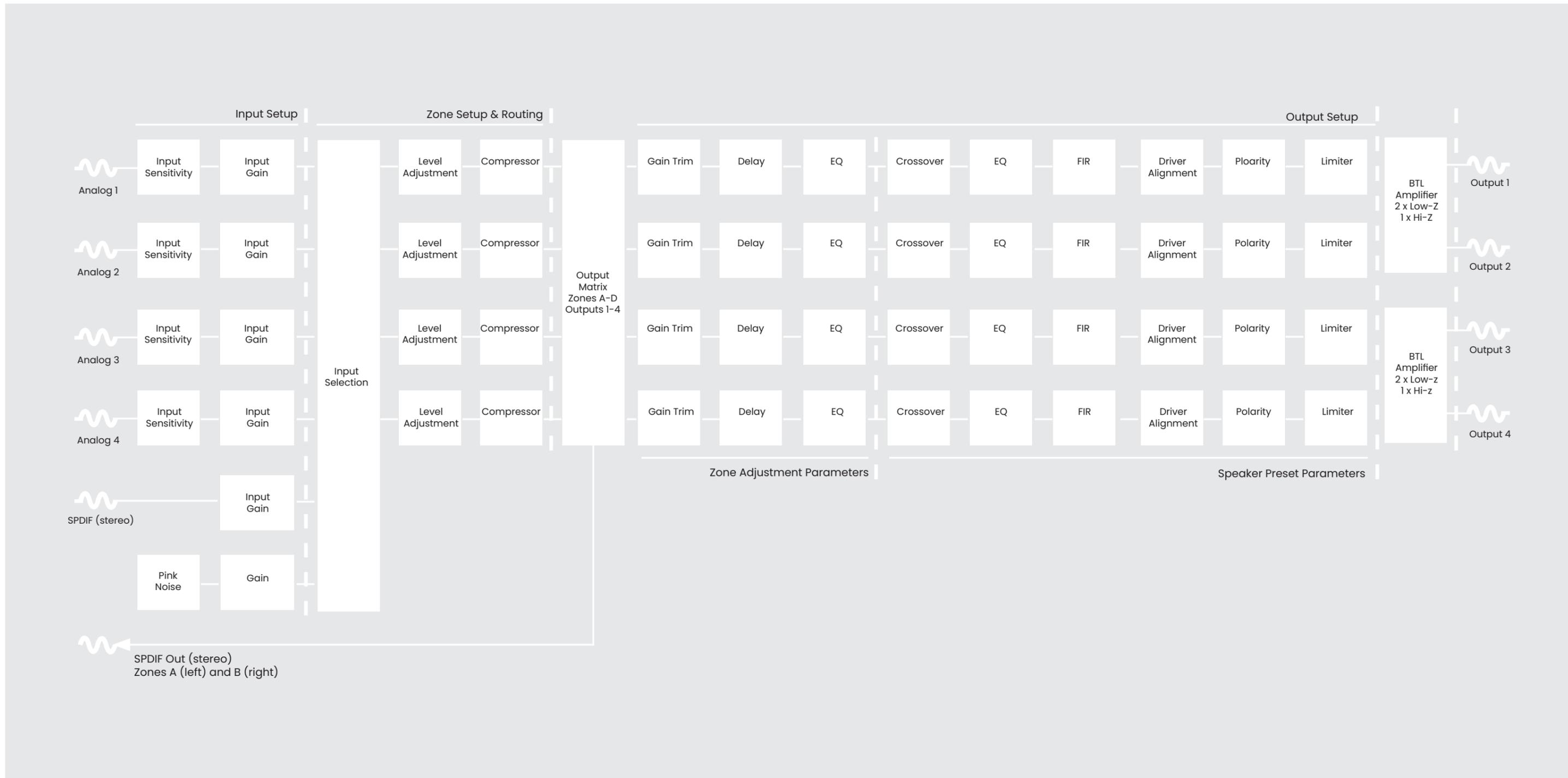
TCP/IP Control

Within the Monitor Audio App Configurator, installers can interrogate, assign and program via the following categories:

- | Dashboard | Outputs | Settings |
|--|--|---|
| <ul style="list-style-type: none"> • Zone overview | <ul style="list-style-type: none"> • Routing • Delay • Equaliser • Speaker tuning • Speaker EQ • Crossover • Driver alignment • Polarity • Limiter • Output mode (HiZ/LoZ) | <ul style="list-style-type: none"> • System information • Device • Backup & Restore • Power Management • GPIO • LAN • WiFi |
| <h3 style="margin: 0;">Inputs</h3> <ul style="list-style-type: none"> • Mono/Stereo • Sensitivity on input • Gain • Naming | <h3 style="margin: 0;">Zones</h3> <ul style="list-style-type: none"> • Naming • Priority routing • Mono/Stereo • Volume control • Compressor | |

Flexible Signal Routing

For technical installers knowing the flow path makes setup much easier.



Specifications

| Model | IA60-4 | IA125-4 |
|------------------------------|---|-------------|
| Channels | 4 | 4 |
| Output Power @ 4 Ohms/8 Ohms | 4 x 60W SE* | 4 x 125W SE |
| Output Power @ 70/100V | 2 x 125W BTL** | 2 x 250 BTL |
| Poweshare (up to) | 1 x 250W | 2 x 250W |
| Power Consumption | 75W | 150W |
| Thermal Output | 256 BTU | 512 BTU |
| Polarity (Default) | Non-inverting | |
| Dimensions | 44 x 220 x 325mm ($1\frac{3}{4}$ x $8\frac{11}{16}$ x $11\frac{5}{8}$ " | |
| Output Voltage | 70Vp / 140Vpp (SE unloaded), 140Vp / 280 Vpp (BTL unloaded) | |
| Signal to noise-ratio | >106dB (A-weighted, 20Hz - 20kHz, 8 Ohm load) | |
| THD+N (typical) | <0.05% (20Hz - 20kHz, 8Ohm load, 3dB below rated power) | |
| Frequency Response | +0/-0.25dB 20Hz - 20kHz (8 Ohm load, 3dB below rated power) | |
| Protection Circuits | Short circuit, DC, Undervoltage, Temperature and Overload protection | |
| Power Supply | Switch mode power supply with Power Factor Correction (PFC) and standby converter | |
| Operating Voltage/Frequency | Universal Mains, 100V-240V, 50Hz-60Hz | |
| Standby Consumption | <0.5W | |
| Accessories | Rack Mount Kit, Wall/desktop mount kit (sold seperatley) | |
| Power Ratings | 1% THD @ 120Vac and 230Vac | |
| Cabinet Finish | Black Anodised | |

* SE - Single Ended

** BTL - Bridge Tied Load

*** BTU - British Thermal Unit

| Model | IA750-2 | IA750-4 |
|---|---|----------------------------|
| Channels | 2 | 4 |
| Output power @2 Ohms | 2 x 750W SE | 4 x 750W SE |
| Output Power @ 4 Ohms | 2 x 750W SE, 1 x 1500W BTL | 4 x 750W SE, 2 x 1500W BTL |
| Output Power @ 8 Ohms | 2 x 400W SE, 1 x 1500W BTL | 2 x 400W SE, 2 x 1500W BTL |
| Output Power @ 70V | 1 x 1200W BTL | 1 x 1200W BTL |
| Output Power @ 100V | 1 x 1500W BTL | 2 x 1500W BTL |
| Maximum totally output power, all channels driven | 1500W | 3000W |
| Power Consumption | 350W | 700W |
| Thermal Output | 1200 BTU | 2400 BTU |
| Polarity (Default) | Non-inverting | |
| Dimensions | 88 x 440 x 329mm ($3\frac{5}{16}$ x $17\frac{5}{16}$ x $12\frac{15}{16}$ " | |
| Output Voltage | 80Vp / 160Vpp (SE unloaded), 160Vp / 320Vpp (BTL unloaded) | |
| Signal to noise-ratio | >108dB (A-weighted, 20Hz - 20kHz, 8 Ohm load) | |
| THD+N (typical) | <0.05% (20Hz - 20kHz, 8 Ohm load, 3dB below rated power) | |
| Frequency Response | +0/-0.5dB 20Hz - 20kHz (8 Ohm load, 3dB below rated power) | |
| Protection Circuits | Short circuit, DC, Undervoltage, Temperature and Overload protection | |
| Power Supply | Switch mode power supply with Power Factor Correction (PFC) and standby converter | |
| Operating Voltage/Frequency | Universal Mains, 100V-240V, 50Hz-60Hz | |
| Standby Consumption | <0.5W | |
| Accessories | Rack mount kit (pre-installed) | |
| Power Ratings | 1% THD @ 120Vac and 230Vac | |
| Cabinet Finish | Black Anodised | |

Pricing

| Model | £ | \$ | € |
|------------|----|----|----|
| Rack Mount | 50 | 65 | 60 |
| Wall/Desk | 50 | 65 | 60 |

| Model | Rack Size | 4/8 Ohm | Bridge (4/8) | 70/100V | £ | \$ | € |
|---------|-----------|---------|--------------|---------|------|------|------|
| IA60-4 | 1U Half | 4x 60W | 2x 125W | 2x 125W | 1150 | 1400 | 1350 |
| IA125-4 | 1U Half | 4x 125W | 2x 250W | 2x 250W | 1650 | 2100 | 2000 |

| Model | Rack Size | 4/8 Ohm | Bridge (4/8) | 70/100V | £ | \$ | € |
|---------|-----------|---------|--------------|----------|------|------|------|
| IA750-2 | 2U Full | 2x 800 | 1x 1500W | 1x 1500W | 2150 | 2800 | 2650 |
| IA750-4 | 2U Full | 4x 800 | 2x 1500W | 2x 1500W | 3150 | 4200 | 4000 |



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