OPUS audio

HDS500-500 & HDS1250-1250

Power Converter

Quick Start Guide



High Definition Power Converter

HDS500-500 & HDS1250-1250

Quick Start Guide

Dual-mono design: two completely independent amplifier channels, each with its own power, mute and level controls, power supply and circuit breaker.



READ FIRST - RACK MOUNTING IS REQUIRED

Before connecting mains power or switching on, rack mount the amplifier using the **supplied rear mounting ears and front fixings**. The chassis is **520mm deep**. Do not support it solely by the four front-panel screws. Keep ventilation openings clear.

1. POWER buttons
Each channel has its own power button. Hold for **two seconds** to switch that channel on or off.

2. MUTE buttons
Mute each channel before powering down.

3. LEVEL controls
Set each channel to the required level. Settings can remain unchanged when powering off.

4. Output level indicators
The vertical meters show the amplifier output level for each channel, with a LIMIT indication at the top.

5. Temperature gauges
Each channel displays temperature in **degrees Celsius (°C)**.

6. Status indicators
MUTE, TEMP and FAULT indicators are provided for each channel.

7. Central power indicators
The square green light remains lit while mains power is present. Each triangular green light is lit when its channel is on and unlit when that channel is off.

1 Before switching on

Rack mount with front fixings and rear mounting ears. Keep ventilation openings clear. With equipment switched off, connect the source and speakers as described on page two.

2 Power on

For first setup, turn the channel LEVEL controls fully anticlockwise and reduce the source output.

Switch on the source equipment. Hold each channel POWER button for **two seconds**. Allow **three seconds** for automatic unmuting, then gradually raise levels.

3 Power off

Press MUTE on each channel. Then hold each channel POWER button for **two seconds**.

Leave the LEVEL controls at their existing settings. Startup mute operates again at the next power-on.

During use

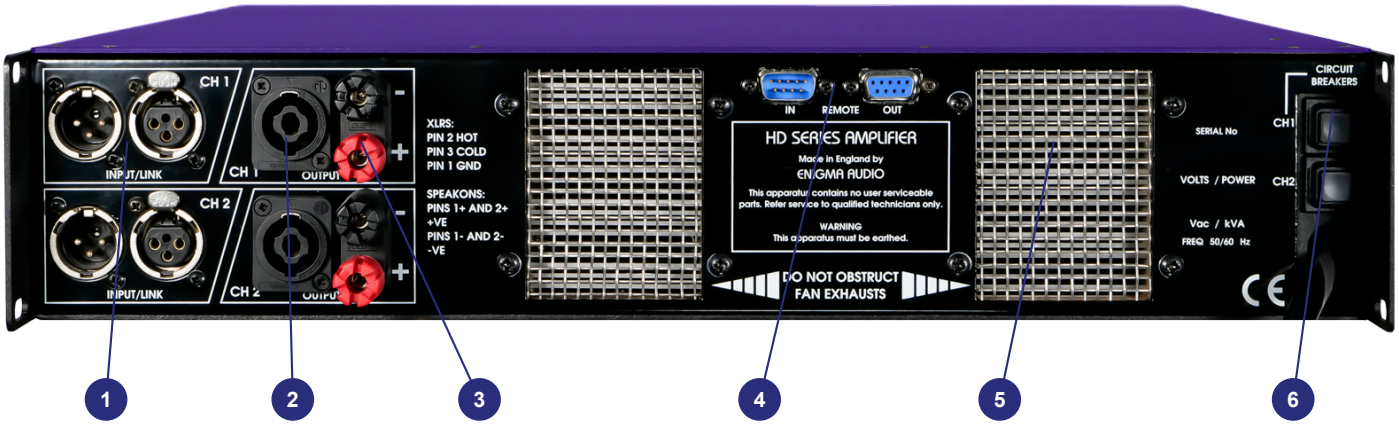
Monitor levels, temperatures and status indicators. If operation appears abnormal, mute and power down the affected channel before investigating.

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Rear connections, installation and routine care



1. Balanced XLR INPUT / LINK
One input/link pair per channel.
Pin 1: ground **Pin 2:** hot (+)
Pin 3: cold (-). LINK passes the signal to additional equipment.

2. speakON speaker outputs
Connect speakers to the matching channel.
Rear-panel wiring: **1+ and 2+ positive;**
1- and 2- negative.

3. Binding-post speaker outputs
Alternative speaker connections.
Red: positive (+). Black: negative (-).
Make speaker connections with power off.

4. REMOTE IN / OUT
Remote connection sockets. Remote operation is outside the scope of this quick start guide.

5. Fan exhausts
Keep both rear fan exhausts unobstructed. Keep the front air intake clear.

6. Channel circuit breakers
Each mono channel has a separate breaker. A trip affects its channel independently, rather than removing power from both.

Minimum speaker load

HDS500-500: 4 ohms per channel
HDS1250-1250: 2 ohms per channel
Do not connect a total load below these values.

Mains and protection

Use an earthed mains supply matching the unit rating label.

If a breaker trips, power down and disconnect the mains before checking external speaker wiring. Have the cause resolved before returning the amplifier to service. Internal servicing is for qualified personnel.

Air-filter care

The front panel houses the air-intake filter. With the amplifier switched off and disconnected from the mains, clean the filter **every three months** in gentle soapy water. Rinse thoroughly and leave to dry naturally. Refit only when completely dry.

The HDS Series is a Class A/B amplifier and relies on substantial airflow to dissipate heat. Keeping the filter and ventilation openings clean maintains airflow and supports efficient cooling.

Six-year warranty

The amplifier is supplied with a **six-year warranty**.

As research and development is a continual process, Opus Audio reserves the right to change the features and specifications described herein without notice or obligation. Opus Audio cannot be held responsible for any loss or damage arising directly or indirectly from any error or omission in this manual.
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Technical Specifications

Power output per channel

Speaker load	HDS500-500	HDS1250-1250
8 ohms	350W	600W
4 ohms	500W	900W
2 ohms	Not supported	1,250W

Shared specifications

Amplifier topology	Dual mono, Class A/B
Input sensitivity	2.2V RMS for full power
Input impedance	10k ohms
Frequency response	5Hz-60kHz
Signal-to-noise ratio	>116dB
Crosstalk	>102dB
THD (8 ohms, 1kHz)	>0.003%*
Damping factor (8 ohms)	>1,000

*THD inequality reproduced as supplied; confirm before publication.