

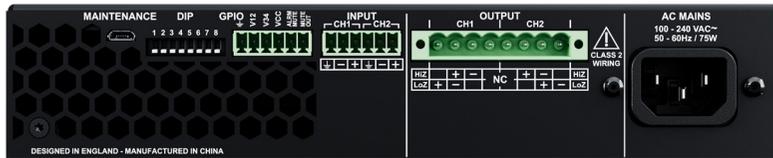
Amplifiers

# SmartAmp 10

2 x 125W amplifier with integral DSP



Optimal Audio



## FEATURES

- Desktop or rack mounted
- Signal processing presets for Optimal Audio loudspeakers
- 125 watts per channel into 4Ω-16Ω and 70V-100V line loudspeaker loads
- Power sharing technology enables 250 watts from a single channel
- Universal Mains, PFC and Energy Star Compliant

SmartAmp 10 is an amplifier with built in Digital Signal Processing (DSP) specifically tailored to optimise the performance of the Optimal Audio loudspeaker range.

This two-channel power amplifier can drive both conventional low impedance and 70V - 100V loudspeaker loads. Internal DSP presets of Optimal Audio loudspeakers are selected by switches to the rear of the amplifier, which enable the appropriate EQ and overload protection settings.

The space efficient half-width, 1U, 19" rack housing enables two units to be mounted side by side with another SmartAmp 10 or SmartAmp 20 allowing up to 6 channels in a 1U space.

The SmartAmp 10 is capable of a maximum of 250W output shared

between the two channels. This enables SmartAmp 10 to flexibly deliver power required for each channel depending on the system requirement. For example, if channel one was to only be using 20W of power for some Up speakers, channel two could deliver the remaining 230W of power for a more demanding application.

Power factor Correction power supply technology enables universal AC mains operation, eliminating the need for local market specific power regulation and potential reliability issues. The power supply delivers consistent, regulated power worldwide with ultra low standby power consumption for EuP2103 and energy star compliance.

## APPLICATIONS



Cafes



Bars/  
Restaurants



Retail



Wedding  
Venues



Hotels



Education  
Facilities



Houses of  
Worship



Corporate  
Offices



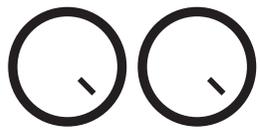
Museums



Fitness Studios



Residential



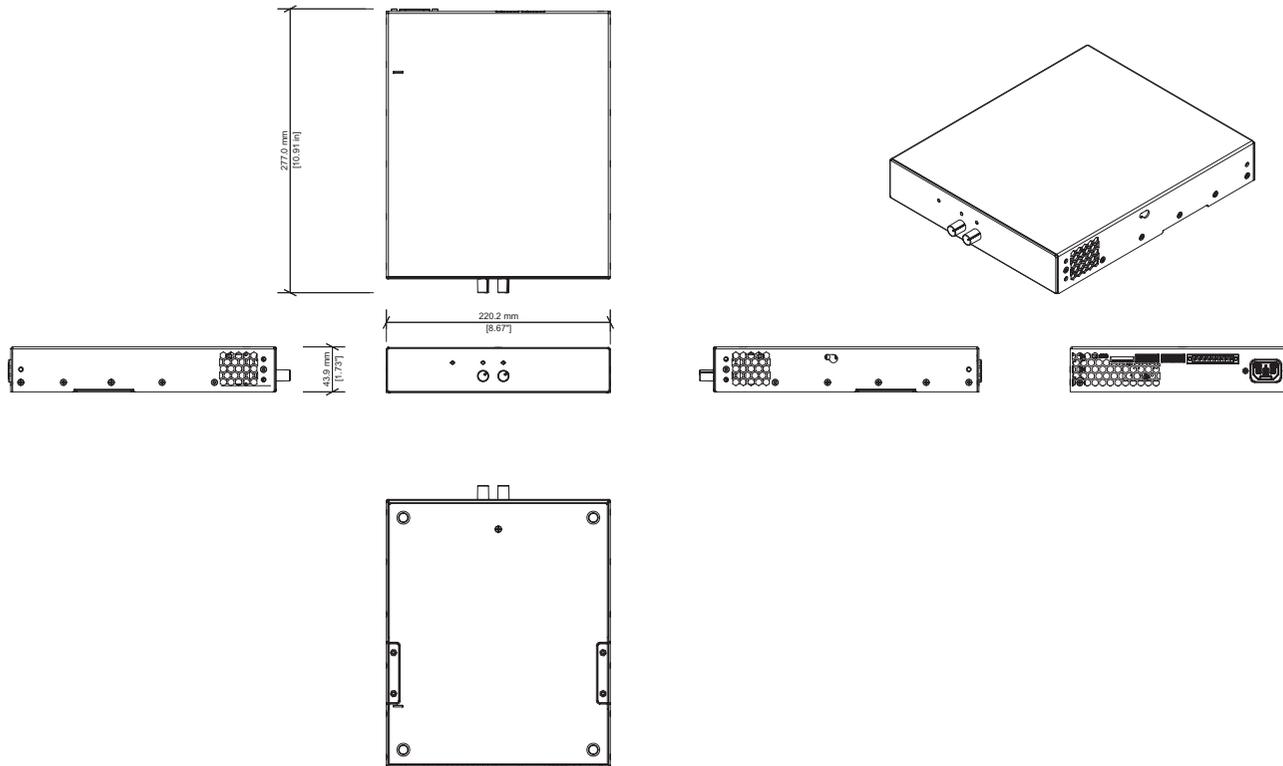
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## SPECIFICATIONS

TYPE	CLASS D power amplifier with DSP
POWER OUTPUT (4Ω-16Ω)	2 x 125W
70V - 100V OUTPUT	2 x 125W
DIGITAL SIGNAL PROCESSING	EQ & limiter presets for Optimal Audio loudspeakers
COOLING	Forced air cooling with fan
ANALOGUE IN/LINK	2 balanced line inputs on Euroblock connectors
ANALOGUE INPUT IMPEDANCE	10kΩ unbalanced, 20kΩ balanced
MAXIMUM ANALOGUE INPUT LEVEL	+24dBu
AMPLIFIER OUTPUTS	Euroblock
SIGNAL TO NOISE RATIO	> 100dB (A-weighted, 20Hz - 20kHz, 8 Ω load)
FREQUENCY RESPONSE	20Hz - 20kHz, +0/-0.25dB (8Ω load, 3dB below rated power)
TOTAL HARMONIC DISTORTION	< 0.05% (20Hz - 20kHz, 8Ω load, 3dB below rated power)
SLEW RATE	8.796V/μS at 70V peak, low impedance, 17.77V/μS at 100V peak, high impedance
DAMPING FACTOR	370 with 8Ω load
CONTROL AND MONITORING	GPIO
DSP SAMPLE RATE	48kHz
MAINS POWER INPUT	Universal Mains, 100-240V, 50-60Hz
MAINS CONNECTOR	IEC
POWER CONSUMPTION	75W
HEAT GENERATED	270kJ per hour
DIMENSIONS	(W) 220mm x (H) 44mm x (D) 277mm (W) 8.67" x (H) 1.73" x (D) 10.91"
WEIGHT	1.9kg (4.2lbs)
ACCESSORIES (available separately)	Rack ears and connection plate Rear rack support kit Wall/desktop mount kit



Paint Finish



Weight

[optimal-audio.co.uk](https://optimal-audio.co.uk)

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