

Amplifiers

SmartAmp 30

4 x 250W amplifier with integral DSP



Optimal Audio



FEATURES

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

SmartAmp 30 is an amplifier with built in Digital Signal Processing (DSP) specifically tailored to optimise the performance of the Optimal Audio loudspeaker range.

This four-channel 1U, 19", 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 SmartAmp 30 can be configured to drive either low or high impedance loads at a maximum of 250W per channel, giving the options of

a localised or evenly distributed speaker system.

The SmartAmp 30 is ideally suited to power multiple speakers and models from Optimal Audio.

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



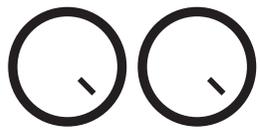
Museums



Fitness Studios



Residential



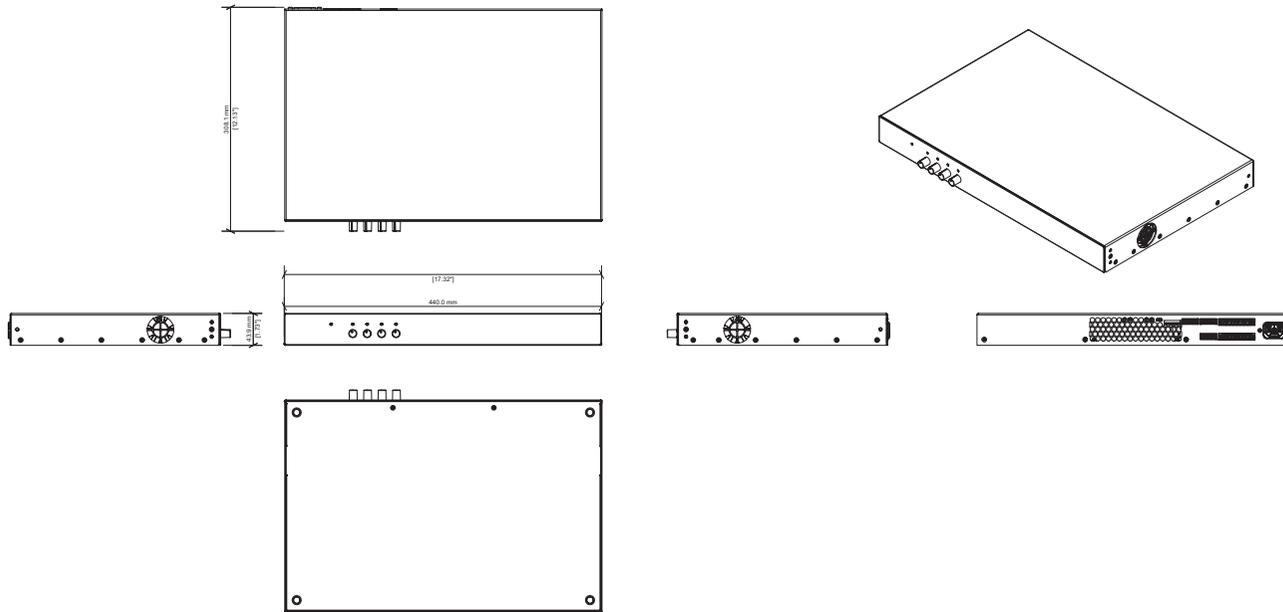
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SPECIFICATIONS

| | |
|------------------------------------|---|
| TYPE | : CLASS D power amplifier with DSP |
| POWER OUTPUT (4Ω-16Ω) | : 4 x 250W |
| 70V - 100V OUTPUT | : 4 x 250W |
| DIGITAL SIGNAL PROCESSING | : EQ & limiter presets for Optimal Audio : loudspeakers |
| COOLING | : Forced air cooling with fan |
| ANALOGUE IN/LINK | : 4 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, 8Ω load) |
| FREQUENCY RESPONSE | : 20Hz - 20kHz, +0/-0.25dB (8Ω load, : 3 dB 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 | : 300W |
| HEAT GENERATED | : 1080kJ per hour |
| DIMENSIONS | : (W) 440mm x (H) 44mm x (D) 308mm : (W) 17.32" x (H) 1.73" x (D) 12.13" |
| WEIGHT | : 3.6kg (7.9lbs) |
| ACCESSORIES (included) | : 2 x Rack ears |
| ACCESSORIES (available separately) | : Rear rack support kit |



Paint Finish



Weight

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