

# LARES

## LARES 08 POWER AMPLIFIER

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The LARES 08 power amplifier represents a breakthrough in both its compact design and power output. It provides eight independent amplifier channels with sufficient power and headroom for both single channel and parallel LARES loud-speaker termination.



Each channel is self-contained on an independent circuit board – thus a fault with one amplifier will not affect other channels. The LARES 08 also features a switch mode power supply that significantly reduces weight, and variable speed forced air cooling. Network communication provides enhanced remote control, monitoring, and system integration. Designed to deliver the utmost in reliability, the LARES 08 is provided with a three year parts and labor warranty.



### SPECIFICATIONS

Minimum Guaranteed Power: Maximum Average Power in watts with 0.1% THD – Dual Mode, 8 channels driven

4-ohm (per ch.)	260W	215W
8-ohm (per ch.)	200W	190W
70V (per ch.)	220W	220W*

\* Constant Voltage full bandwidth power ratings support 100Hz - 20kHz due to automatic High-Pass Filters.

Frequency Response: (at 1 watt, 20 Hz - 20 kHz):  $\pm 0.5$  dB.

Phase Response: (at 1 watt, 10 Hz - 20 kHz):  $\pm 35^\circ$ .

Signal to Noise Ratio: below rated power (20 Hz to 20 kHz): 100 dB unweighted.

Total Harmonic Distortion (THD): at 1 watt, from 20 Hz to 20 kHz: < 0.05%.

Intermodulation Distortion (IMD): 60 Hz and 7 kHz at 4:1, from 163 milliwatts to full bandwidth power: < 0.05% (typical).

Damping Factor: 10 Hz to 400 Hz: > 180.

Crosstalk: (below rated power, 20 Hz to 1 kHz): > 80 dB.

Common Mode Rejection (CMR): (20 Hz to 1 kHz): > 50 dB.

DC Output Offset: (Shorted input): < 5 mV.

Input Impedance: (nominal): 20 kilohms balanced, 10 kilohms unbalanced.

Maximum Input Level: (before input compression): + 20 dBu.

Load Impedance: (Note: Safe with all types of loads): Stereo: 4/8 and 25 ohms (70V) Bridge Mono: 8/16 and 50 ohms (100V)

Voltage Gain: (at maximum level setting), 1.4V sensitivity, 4/8 Ohm Operation: 20:1 (26 dB); 70V Operation: 50:1 (34 dB)

100V Operation: 71.4:1 (37 dB)

Required AC Mains: 120V 60 Hz, 220/230/240V/50 Hz.

Power Draw at Idle: (120VAC mains, all channels in 4/8 ohm mode): 70W.

Power Draw at Idle: (120VAC mains, all channels in 70V mode): 114W.

Cooling: Continuously variable speed forced air, front-to-back airflow.

Dimensions: (Width, Height, Depth): 19 in. (48.3 cm) W x 5.25 in. (13.3cm) H x 16.25 in. (41.3 cm) D.

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