

AMPLIFIER

PRODUCT SHEET & SPECIFICATIONS

MULTI CHANNEL AMPLIFIER (MODELS APFR-MULTICH220/ APFR-MULTICH200)



- DESCRIPTION

The APFR-MULTICH220 & APFR-MULTICH200 offer new flexibility and value for installed sound applications. The multi-channel amplifiers offer independent selection of high- and low-impedance operation for a specific channel with power levels and features carefully chosen to perfectly integrate into fixed install design requirements.

- FEATURES AND CAPABILITIES

- + Selectable constant-voltage (70V/100V) or low-impedance (4/8 ohm) operation for each channel pair (channel pair must be operated in Bridge mode for 100V).
- + FIT (Fault Isolation Topology) circuitry isolates faults within affected channels
- + TLC protection circuitry protects the amplifier from excessive heat by subtly and dynamically reducing the gain only when necessary to reduce heat levels
- + Comprehensive array of indicators including Power and Data, along with Bridge, Ready, Signal, Clip, Thermal and Fault for each channel, provide accurate diagnostics
- + A fixed 35-Hz (70-Hz in APFR-MULTICH220) high-pass filter per channel pair is automatically inserted when the mode switch is set to either of the constant-voltage settings. The high-pass filter corner frequency in the APFR-MULTICH200 can be set to 70 Hz, or bypassed, with a service option

AMPLIFIER

Model

**APFR-MULTICH 220/
APFR-MULTICH200**

- SPECIFICATIONS

AMPLIFIER 220W/200W

| | APFR-MULTICH220 | APFR-MULTICH200 |
|---|------------------|------------------|
| Channels | 4 | 8 |
| Sensitivity | 1.4V | 1.4V |
| Signal to Noise Ratio (below rated power 20Hz to 20kHz, Unweighted) | 100dB | 100dB |
| Total Harmonic Distortion (THD) (full rated power, 20Hz - 20kHz) | < 0.05% | < 0.05% |
| Intermodulation Distortion (from 0dB down to -40dB) | < 0.05% | < 0.05% |
| Frequency Response (at 1W into 4/8 ohms) | ± 0.5dB | ± 0.5dB |
| Phase Response (at 1 watt, 10 Hz - 20 kHz) | ± 35° | ± 35° |
| Crosstalk (below rated power 20Hz to 1kHz) | > 80dB | > 80dB |
| Common Mode Rejection (20Hz to 1Khz) | > 50dB | > 50dB |
| Maximum Input Level (before input compression) | +20dBu | +20dBu |
| Load impedance | 70V (4/8/16 Ohm) | 70V (4/8/16 Ohm) |
| Voltage Gain (at maximum level settings) (8/4 ohm operation) | 20:1 (26dB) | 20:1 (26dB) |
| Power Draw at Idle (120VAC mains: standby mode) | 58W | 58W |

General

| | | |
|--------------------------|---------------------|----------------------|
| Dimension (H x W x D) | 3.5" x 19" x 16.25" | 5.25" x 19" x 16.25" |
| Net Weight | 27 lbs 8 oz | 36 lbs 6 oz |

V1.0

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 **LENCORE**
MANUFACTURER. INNOVATOR. LEADER.

AMPLIFIER

Model

APFR-MULTICH 220/ APFR-MULTICH200

APFR-MULTICH220

Maximum Average Power
in watts with 0.1% THD.

Dual

| | 1 kHz | 20 Hz-20 kHz |
|--------------------------|-------------|--------------|
| 4 Channels Driven | | |
| 4-ohm (per ch.) | 260W | 215W |
| 8-ohm (per ch.) | 180W | 190W |
| 70V (per ch.) | 220W | 220W* |

1 Channel Driven

| | 1 kHz | 20 Hz-20 kHz |
|-----------------|-------------|---------------|
| 4-ohm (per ch.) | 270W | 225W |
| 8-ohm (per ch.) | 220W | 210W |
| 70V (per ch.) | 250W | 245W * |

Bridge-Mono

| | 1 kHz | 20 Hz-20 kHz |
|-------------------------------|-------------|--------------|
| 2 Channel-Pairs Driven | | |
| 8-ohm (per ch. pair) | 520W | 430W |
| 16-ohm (per ch. pair) | 400W | 380W |
| 100V (per ch. pair) | 220W | 220W* |

1 Channel-Pair Driven

| | 1 kHz | 20 Hz-20 kHz |
|-----------------------|-------------|---------------|
| 8-ohm (per ch. pair) | 560W | 450W |
| 16-ohm (per ch. pair) | 440W | 420W |
| 100V (per ch. pair) | 250W | 245W * |

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

APFR-MULTICH200

Maximum Average Power
in watts with 0.1% THD.

Dual

| | 1 kHz | 20 Hz-20 kHz |
|--------------------------|-------------|--------------|
| 4 Channels Driven | | |
| 4-ohm (per ch.) | 200W | 175W |
| 8-ohm (per ch.) | 160W | 155W |
| 70V (per ch.) | 200W | 285W* |

1 Channel Driven

| | 1 kHz | 20 Hz-20 kHz |
|-----------------|-------------|---------------|
| 4-ohm (per ch.) | 270W | 230W |
| 8-ohm (per ch.) | 220W | 220W |
| 70V (per ch.) | 250W | 230W * |

Bridge-Mono

| | 1 kHz | 20 Hz-20 kHz |
|-------------------------------|-------------|--------------|
| 2 Channel-Pairs Driven | | |
| 8-ohm (per ch. pair) | 400W | 350W |
| 16-ohm (per ch. pair) | 320W | 310W |
| 100V (per ch. pair) | 200W | 185W* |

1 Channel-Pair Driven

| | 1 kHz | 20 Hz-20 kHz |
|-----------------------|-------------|---------------|
| 8-ohm (per ch. pair) | 540W | 460W |
| 16-ohm (per ch. pair) | 440W | 440W |
| 100V (per ch. pair) | 250W | 230W * |

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