

CLASSE

CUSTOM THEATER ELECTRONICS

CT-M300

300W monaural amplifier



Classé Custom Theater series components offer a beautiful and purpose-built solution for installing world-class audio components in professional equipment racks.

Our commitment to building the world's best amplifiers has not changed, but the way our customers use them has. High-end amplifiers today are as likely as not to be installed in equipment racks or custom cabinetry and often serve as the foundation of a home theater. Their sheer size, weight and heat render them impractical in many installations.

The revolutionary Custom Theater (CT) series is our response to this reality. They are the first world class high-end amplifiers specifically tailored to modern custom installations. They deliver ultra high-end performance, exceptional reliability and are designed to be easily installed. We say that they are rack advantaged, because of a variety of features tailored to the demanding requirements of this environment.

CT amplifiers come with their own adjustable rack rails and a separate faceplate designed to conceal all mounting hardware along the sides of the rack. The rails adapt easily to common rack depths while providing front to back support of the chassis. Hidden inside, our unique Intelligent Cooling Tunnel, or ICTunnel™ (pronounced Icy Tunnel) architecture and related circuitry quietly controls the amplifier temperature, ensuring optimum performance and reliability in enclosed, poorly ventilated environments.

Conventional high-end amplifiers use heatsinks with high thermal mass that rely on convection to cool the active circuits. They are slow to heat up and slow to cool down.

Eventually they heat up their environment and as the air around them gets hotter, they become part of the problem. For this reason, high-powered amps and racks or cabinets don't easily mix.

Conventional heatsinks are simply shaped pieces of metal, relying on placement and ambient air to extract heat from the amplifier. The ICTunnel™ is more sophisticated, acting like the human hypothalamus regulating body temperature. The ICTunnel™ utilizes an aluminum bonded-fin heatsink, of the kind used in high powered medical, laser and test equipment. It exploits the principle of low thermal mass, so it heats quickly but can also be cooled quickly. Inside its relatively small size are fins providing nearly 31 square feet of surface area. The key to its operation is how the fins are spaced—as close as possible to each other to maximize the surface area inside the tunnel, but not so close as to heat each other. The ICTunnel™ utilizes a noiseless fan along with pressure and temperature sensors to maintain the amplifier's target temperature.

The CT series has everything you would expect from the world's best amplifiers. They are designed for lifetime reliability. They have the power to effortlessly control the lowest impedances imaginable. They have the finesse to resolve the infinitely minute details that are the DNA of great sound. But CT amplifiers add a new dimension. For the first time the world's best amplifiers can go right where you need them – in the home theater rack.

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CT-M300 Specifications

All tests un-weighted and 500kHz measurement bandwidth (except SNR).

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| Frequency response | 1Hz – 80kHz, -3dB |
| Output power | 300W rms into 8 Ω (24.8 dBW) 600W rms into 4 Ω (24.8 dBW) |
| Harmonic Distortion | <0.002% at 1 kHz balanced <0.004% at 1 kHz single ended |
| Peak Output Voltage | 150V peak to peak, 53V rms no load 136V peak to peak, 48V rms into 8 Ω |
| Input Impedance | 50k Ω balanced / single ended |
| Voltage gain | 29dB balanced / single ended |
| Input level at clipping | 1.88V rms balanced / single ended |
| Intermodulation Distortion | >90dB below fundamental into 8 Ω balanced / single ended >90dB below fundamental into 4 Ω balanced / single ended |

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|------------------------------|---|
| Signal to Noise Ratio | -116dB at peak output into 8 Ω Measurement Bandwidth: 22kHz |
| Output impedance | 0.015 Ω @ 1kHz |
| Standby power consumption | 3W @ 120V; 5W @ 230V |
| Rated power consumption | 420W @ 1/8th power into 8 Ω |
| Width (including faceplate) | 19" (483mm) |
| Width (excluding faceplate) | 17" (432mm) |
| Depth (excluding connectors) | 18.625" (473mm) |
| Height | 6.97" (177mm) |
| Gross weight | 96lbs (43.5kg) |
| Net weight | 76lbs (34.5kg) |
| Mains voltage | Specified on rear panel |

Prices and specifications subject to change.
We are not responsible for typographical errors.
Printed in Canada on recycled stock.

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