

Micro-Tech® Series

INTRODUCTION

The Micro-Tech Series of Crown amplifiers are designed to provide high power with extremely low distortion for use in audio applications. The key focus of this amplifier series is obtain an optimum combination of power, price, weight, and physical size. Crown guarantees to meet or exceed its published specifications and backs them up with a 3 Year Full No Fault Warranty. For a standard cut-sheet please contact our literature department (1-800-342-6939/1-219-294-8200).

MT-600 OUTPUT POWER

235W/Ch 8 Ohms
325W/Ch 4 Ohms
400W/Ch 2 Ohms
655W Bridged Mono 8 Ohms
750W Bridged Mono 4 Ohms
665W Parallel Mono 2 Ohms
700W Parallel Mono 1 Ohm

MT-1200 OUTPUT POWER

310W/Ch 8 Ohms
480W/Ch 4 Ohms
675W/Ch 2 Ohms
970W Bridged Mono 8 Ohms
1300W Bridged Mono 4 Ohms
965W Parallel Mono 2 Ohms
1300W Parallel Mono 1 Ohm

MT-2400 OUTPUT POWER

520W/Ch 8 Ohms
800W/Ch 4 Ohms
1050W/Ch 2 Ohms
1585W Bridged Mono 8 Ohms
2070W Bridged Mono 4 Ohms
1605W Parallel Mono 2 Ohms
2080W Parallel Mono 1 Ohm

SONIC PERFORMANCE

Signal/Noise:

105 dB A-weighted

Damping Factor:

>1000 From 10 to 400 Hz

Slew Rate:

>13V/μSec Stereo

IMD:

<0.05% At Rated Output

THD:

<0.1% At Rated Output

Frequency Response:

±0.1 dB From 20 Hz to 20 kHz at 1W at 8 Ohms

Phase Response:

±10° From 10 Hz to 20 kHz

Input Impedance:

20 kOhm Balanced, 10 kOhm Unbalanced

Output Impedance:

<10 mOhm In Series With <2 μH

CONTROLS & INDICATORS

Front Panel:

On/Off Switch, Power Indicator, ODEP Indicators

Rear Panel:

Level Controls, Stereo/Bridged Mono/Parallel Mono Switch, Ground Lift Switch; MT-2400 Only: Breaker Reset Switches

Internal:

Sensitivity Switch (26 dB/0.775V/1.4V Selection)

CONNECTORS

Input:

TRS ¼" Phone Jack Standard (XLR optional with addition of MT-XLR accessory, Barrier Block optional with addition of MT-BB accessory)

Output:

Dual Binding Post (Banana Jack)

STRUCTURAL

MT-600 Weight:

37 lbs (16.5 kg)

MT-1200 Weight:

41 lbs (18.6 kg)

MT-2400 Weight:

47 lbs (21.3 kg)

Dimensions:

3.5" x 19" x 16" (2U)

Cooling:

Forced Air Fan

AC Power:

120V 60Hz and standard power plug.

CIRCUITRY DESIGNS

Grounded Bridge output topology employs AB+B three-deep Darling-

ton in a four-quadrant design. Rail voltage is not grounded at the power supply, but by two quadrants of the output stage. The result is voltage control allowing maximum power transfer to the load, but never placing more than half the output voltage across any output transistor device. These amplifiers also have Output Device Emulation Protection (ODEP) to protect the amplifier from unsafe thermal conditions. Unlike conventional thermal switches, the ODEP circuit steps in to limit drive only as much as necessary to protect the output stage rather than causing an abrupt shutdown. With ODEP, "The Show Goes On!" Front panel indicators are provided to show the thermal headroom of the amplifier. If it begins to run out of thermal headroom the ODEP indicators dim. After they go out the amplifier may begin to limit output drive to protect the amplifier thermally. Other protective circuitry includes slew rate limiting to prevent RF burn-out of high frequency transducers, output current limiting, and audio muting in the event of output DC or output device failure. Another circuit innovation in these amplifiers is the use of the fan motor as the low voltage transformer. Low voltage transformer windings are wound in the form of a motor for the fan.

**Guaranteed
Excellence**



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