

MT-600 MT-1200 MT-2400

The Crown® Micro-Tech® 600, 1200 and 2400 are the original industry standards for touring amplifiers. Micro-Tech amplifiers are known around the world as the benchmark for high-density, ultra-pure power in a compact package. In addition, each model gives you Crown's legendary ODEP® protection to keep the show going long after other amplifiers would fail.

Micro-Tech amplifiers use proven technology and a miniaturized design to deliver terrific value for their size, weight and price. Crown's patented ODEP protection circuitry and Grounded Bridge™ output stages combine to provide performance and reliability that surpass traditional designs. Micro-Tech amplifiers also have an independent high-voltage power supply for each channel. This approach results in extremely low crosstalk and makes it possible to use each channel as a separate amplifier.

Plus, your investment in a Micro-Tech amplifier is backed by Crown's unequalled Three-Year, No-Fault, Fully Transferable Warranty that covers everything.

For more details about the Crown Micro-Tech Series, contact the Crown Technical Support Group at 800-342-6939 or 574-294-8200. Also, visit the Crown Audio website at www.crownaudio.com.

Specifications

The following applies to 120 VAC, 60 Hz units in Stereo mode with both channels driven into 8 ohm loads and an input sensitivity of 26 dB unless otherwise specified. Specifications for units supplied outside the USA may vary slightly at different AC voltages and frequencies.

Power

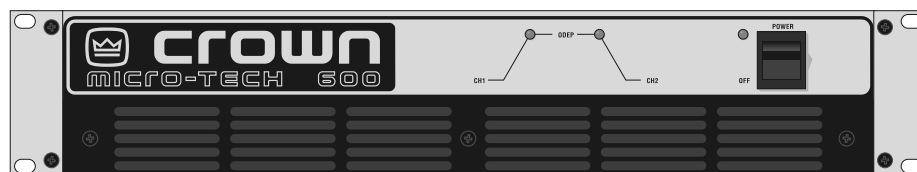
Output Power: See power charts below.

Load Impedance: Safe with all types of loads. Rated for 2 to 16 ohms in Stereo mode, 4 to 16 ohms in Bridge-Mono mode, and 1 to 4 ohms in Parallel-Mono mode.

Voltage Gain (at maximum level setting):

MT-600: 20:1 $\pm 6\%$ or 26 dB ± 0.5 dB at 26 dB gain setting. 55:1 $\pm 6\%$ or 35 dB ± 0.5 dB at 0.775 volt sensitivity; 31:1 $\pm 6\%$ or 30 dB ± 0.5 dB at 1.4 volt sensitivity.

M I C R O - T E C H S E R I E S



Features

- Crown's Grounded Bridge™ design delivers large voltage swings without using easily stressed output-transistor configurations like conventional amplifiers. The results are lower distortion and superior reliability.
- Patented ODEP® (Output Device Emulation Protection) circuitry compensates for overheating and overload to keep the amplifier working when others would fail.
- High damping factor provides superior motion control over low-frequency drivers for clean, accurate low end.
- Full protection against shorted outputs, open circuits, DC, mismatched loads, general overheating, high-frequency overloads and internal faults.
- 1/4-inch and balanced XLR input connectors.
- Ground lift switch to isolate chassis and phone jack audio grounds.
- Internal three-position input sensitivity switch provides settings of 0.775 and 1.4 volts for standard 1 kHz power, and 26 dB voltage gain.
- The best Three-Year, No-Fault, Fully Transferable Warranty in the business.

MT-1200: 20:1 $\pm 6\%$ or 26 dB ± 0.5 dB at 26 dB gain setting. 64:1 $\pm 6\%$ or 36 dB ± 0.5 dB at 0.775 volt sensitivity; 34:1 $\pm 6\%$ or 31 dB ± 0.5 dB at 1.4 volt sensitivity.

MT-2400: 20:1 $\pm 6\%$ or 26 dB ± 0.5 dB at 26 dB gain setting. 83:1 $\pm 6\%$ or 38 dB ± 0.5 dB at 0.775 volt sensitivity; 46:1 $\pm 6\%$ or 33 dB ± 0.5 dB at 1.4 volt sensitivity.

Required AC Mains: 100, 120, 220 and 240VAC ($\pm 10\%$), 50 and 60 Hz units are available.

AC Line Current:

AC mains current, frequency and voltage requirements are provided on the unit's back panel.

At Idle: All amps draw no more than 90 watts.

AC Line Connector: All units are shipped with an appropriate plug and cord for the required AC voltage.

Performance

Frequency Response: ± 0.1 dB from 20 Hz to 20 kHz at 1 watt.

Phase Response: ± 10 degrees from 20 Hz to 20 kHz at 1 watt.

Signal to Noise Ratio:

A-Weighted:

Better than 105 dB below full bandwidth power.

20 Hz to 20 kHz:

Better than 100 dB below full bandwidth power.

Total Harmonic Distortion (THD): Less than 0.5% at full bandwidth power from 20 Hz to 1 kHz increasing linearly to 0.1% at 20 kHz.

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

Damping Factor: Better than 1,000 from 10 Hz to 400 Hz.

Common Mode Rejection (CMR): At rated full bandwidth power, better than 70 dB from 20 Hz to 1 kHz falling linearly to better than 50 dB at 20 kHz.

DC Output Offset (Shorted Input): ± 10 mV.

MT 600

*1 kHz
Power

2 ohm Stereo (per channel)	400W
4 ohm Stereo (per channel)	325W
8 ohm Stereo (per channel)	225W
4 ohm Bridge-Mono	750W
8 ohm Bridge-Mono	655W

*1 kHz Power: refers to maximum average power in watts at 1 kHz with 0.1% THD.

MT 1200

*1 kHz
Power

2-ohm Stereo (per channel)	675W
4-ohm Stereo (per channel)	480W
8-ohm Stereo (per channel)	310W
4-ohm Bridge-Mono	1,300W
8-ohm Bridge-Mono	970W

*1 kHz Power: refers to maximum average power in watts at 1 kHz with 0.1% THD.

MT 2400

*1 kHz
Power

2 ohm Stereo (per channel)	1,050W
4 ohm Stereo (per channel)	800W
8 ohm Stereo (per channel)	520W
4 ohm Bridge-Mono	2,070W
8 ohm Bridge-Mono	1,585W

*1 kHz Power: refers to maximum average power in watts at 1 kHz with 0.1% THD.

The MT-600 is shown. The MT-2400 also has two reset switches near the power cord.



MT-600 MT-1200 MT-2400

Controls and Connectors

Level: A back panel rotary potentiometer for each channel used to control the output level.

Power: A front panel rocker switch used to turn the amplifier on and off.

Stereo/Mono: A three-position back panel switch used to select Stereo, Bridge-Mono or Parallel-Mono mode.

Sensitivity: A three-position switch inside the back cover plate used to select the input sensitivity for both channels: 0.775 volt or 1.4 volts for standard 1 kHz power into 8 ohms, or 26 dB gain.

Ground Lift: A two-position back-panel switch used to isolate the phone jack input grounds from the AC ground.

Reset: A back-panel pushbutton switch (one per channel) that resets the circuit breaker.

Indicators

(all located on front panel)

Enable: This amber indicator shows the on/off status of the low-voltage power supply and cooling fan.

ODEP: Each channel has an amber front panel indicator that shows thermal-dynamic energy reserve. Normally, each ODEP indicator is lit to show available reserve energy. The indicator will dim proportionally as the energy reserve for its channel decreases. In the rare event that a channel has no reserve, its indicator will turn off and the ODEP circuitry will limit the channel's output drive. They remain off if the power is turned off, disconnected, or if the low-voltage power supply fuse blows. A channel's ODEP indicator will also remain off if its high-voltage supply fuse blows (or breaker opens) or if transformer thermal protection is activated.

Input/Output

Input Connector: Two balanced 1/4-inch (6.35-mm) phone jacks in parallel with two XLR connectors.

Input Impedance: Nominally 20 k ohms, balanced. Nominally 10 k ohms, unbalanced.

Input Sensitivity: Settings include 0.775 volt and 1.4 volts for standard 1 kHz power, or 26 dB gain.

Output Connectors: Two sets of color-coded binding posts for banana plugs, spade lugs or bare wire (European models do not accept banana plugs).

Output Impedance: Less than 10 milliohms in series with less than 2 microhenries.

DC Output Offset: (Shorted input) ± 10 millivolts.

Output Signal:

Stereo: Unbalanced, two-channel.

Bridge-Mono: Balanced, single-channel. Channel 1 controls are active; Channel 2 should be turned down.

Parallel-Mono: Unbalanced, single-channel. Channel 1 controls are active; Channel 2 is bypassed.

Protection

The Micro-Tech Series amplifier is protected against shorted, open or mismatched loads; overloaded power supplies; excessive temperature, chain destruction phenomena, input overload damage and high-frequency blow-ups. It also protects loudspeakers from input/output DC and turn-on/turn-off transients.

If unreasonable operating conditions occur, the patented ODEP circuitry will proportionally limit the drive level to protect the output stages, particularly in the case of elevated

temperature. Transformer overheating will result in a temporary shutdown of the affected channel; when it has cooled to a safe temperature, the transformer will automatically reset itself. Controlled slew rate voltage amplifiers prevent RF burnouts, and input overload protection is provided by the input current limit.

Turn On: The four-second turn-on delay prevents dangerous turn-on transients. Turn-on occurs at zero crossing of the AC waveform, so power sequencers are rarely needed with multiple units. Note: To change the turn-on delay time, contact Crown's Technical Support Group.

Construction

Steel chassis with durable black finish, front panel Lexan overlay and specially designed "flow-through" ventilation from front to side panels.

Cooling: Internal heat sinks with forced-air cooling for rapid, uniform heat dissipation.

Dimensions: EIA Standard 19-inch (48.3-cm) rack mount width (EIA RS-310-B), 3.5 inches (8.9-cm) high and 16 inches (40.6-cm) deep behind front mounting surface.

Weight:

Micro-Tech 600: 36 lb, 4 oz (16.5 kg) net. 41, lb 2 oz (18.7 kg) shipping.

Micro-Tech 1200: 41 lb, 1 oz (18.6 kg) net. 45, lb 3 oz (20.5 kg) shipping.

Micro-Tech 2400: 46 lb, 14 oz (21.3 kg) net. 55lb, 12 oz (25.3 kg) shipping.



H A Harman International Company

Crown International
P.O. Box 1000
Elkhart, IN 46515-1000
TEL: 574-294-8200
FAX: 574-294-8FAX
www.crownaudio.com

Specifications subject to change without prior notice. Latest information available at www.crownaudio.com.

Grounded Bridge is a trademark and Crown, ODEP and Micro-Tech are registered trademarks of Crown International. Other trademarks are the property of their respective owners. Printed in U.S.A.

© 2003 Crown Audio, Inc.

Crown's Three-Year, No-Fault, Fully Transferable Warranty

Crown offers a Three-Year, No-Fault, Fully Transferable Warranty for every new Crown amplifier—an unsurpassed industry standard. With this unprecedented No-Fault protection, your new Crown amplifier is warranted to meet or exceed original specifications for the first three years of ownership. During this time, if your amplifier fails, or does not perform to original specifications, it will be repaired or replaced at our expense. About the only things not covered by this warranty are those losses normally covered by insurance and those caused by intentional abuse. And the coverage is transferable, should you sell your amplifier.

See your authorized Crown dealer for full warranty disclosure and details. For customers outside of the USA, please contact your authorized Crown distributor for warranty information or call 574-294-8200.