The RMX Series amplifiers from QSC offer true professional-quality performance at an affordable price. Four 2-rackspace models range in power from 430 to 1200 watts per channel at 2 ohms. Two 3-rackspace models provide 2000 to 2500 watts per channel at 2 ohms. All six models feature a compact chassis less than 16” deep. RMX amplifiers include a comprehensive set of features including XLR and 1/4” balanced inputs, Speakon® and binding post outposts for convenient connectivity. User-defeatable clip limiters and selectable low frequency filters optimize sonic performance.

**RMX5050**
QSC’s RMX5050 power amplifier represents state-of-the-art in professional quality performance at an affordable price. Perfectly suited for a wide range of sound reinforcement applications including professional touring, performing musicians, and mobile entertainers, the RMX5050 is optimized to deliver high levels of sustained power, extraordinary audio performance and road-proven reliability.

**RMX4050HD**
Like its smaller sibling (the RMX1850HD), the RMX4050HD is one of two RMX "heavy duty" models designed to work as hard into 2 ohm loads as most competing amplifiers will at 4 ohms.

Both the RMX5050 and RMX4050HD feature a three-tier, Class H design that is extremely efficient at real world power levels. Less AC current is wasted and more available current goes into producing useful audio power. 120 volt versions of the RMX4050HD accomplish all this with a standard 15 amp plug.

### RMX Power Amplifiers

<table>
<thead>
<tr>
<th>Model</th>
<th>8Ω</th>
<th>4Ω</th>
<th>2Ω*</th>
<th>Bridged 4Ω*</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMX850</td>
<td>200</td>
<td>300</td>
<td>430</td>
<td>830</td>
</tr>
<tr>
<td>RMX1450</td>
<td>280</td>
<td>450</td>
<td>700</td>
<td>1400</td>
</tr>
<tr>
<td>RMX1850HD</td>
<td>360</td>
<td>600</td>
<td>900</td>
<td>1800</td>
</tr>
<tr>
<td>RMX2450</td>
<td>500</td>
<td>750</td>
<td>1200</td>
<td>2400</td>
</tr>
<tr>
<td>RMX4050HD</td>
<td>850</td>
<td>1400</td>
<td>2000</td>
<td>4000</td>
</tr>
<tr>
<td>RMX5050</td>
<td>1100</td>
<td>1800</td>
<td>2500</td>
<td>5000</td>
</tr>
</tbody>
</table>

*1 kHz, 0.1% THD  *1 kHz, 1% THD

Speakon is a trademark of Neutrik

### Features
- Professional quality performance—incorporates road-proven QSC designs
- The 4000 watt RMX4050HD operates on a standard 15 amp plug (120V)
- Both the RMX4050HD and RMX5050 feature a dual mono, high current power supply for increased reliability and performance
- The RMX1850HD and RMX4050HD provide improved thermal performance yielding higher continuous power in 2 ohm stereo or 4 ohm bridged applications (a RMX HD exclusive!)
- Compact size—up to 2400 watts in 2 rack spaces or 5000 watts in 3 rack spaces
- High-current toroidal transformers for greater 2 ohm power and low noise
- Independent user-defeatable clip limiters reduce distortion
- Selectable low frequency filters (30 Hz or 50 Hz) protect speakers and increase headroom
- Balanced 1/4” (6.3 mm) TRS, XLR, and barrier strip inputs
- Touch-proof binding post and Neutrik Speakon® outputs
- Front mounted gain controls for easy access
- Signal and Clip LED indicators to monitor performance
- Independent DC and thermal overload protection on each channel automatically protects amplifier and speakers
- 3 year warranty plus optional 3 year extended service contract
### RMX Series Specifications

#### Stereo Mode (both channels driven)

<table>
<thead>
<tr>
<th></th>
<th>RMX850</th>
<th>RMX1450</th>
<th>RMX1850HD</th>
<th>RMX2450</th>
<th>RMX4050HD</th>
<th>RMX5050</th>
</tr>
</thead>
<tbody>
<tr>
<td>8Ω / FFC 20 Hz - 20 kHz / 0.1% THD</td>
<td>185 W</td>
<td>260 W</td>
<td>350 W</td>
<td>450 W</td>
<td>800 (650**) W</td>
<td>1050 W</td>
</tr>
<tr>
<td>8Ω / EIA 1 kHz / 0.1% THD</td>
<td>200 W</td>
<td>280 W</td>
<td>360 W</td>
<td>500 W</td>
<td>850 W</td>
<td>1100 W</td>
</tr>
<tr>
<td>4Ω / FFC 20 Hz - 20 kHz / 0.1% THD</td>
<td>280 W</td>
<td>400 W</td>
<td>550 W</td>
<td>650 W</td>
<td>1300 W</td>
<td>1600 W</td>
</tr>
<tr>
<td>4Ω / EIA 1 kHz / 0.1% THD</td>
<td>300 W</td>
<td>450 W</td>
<td>600 W</td>
<td>750 W</td>
<td>1400 W</td>
<td>1800 W</td>
</tr>
<tr>
<td>2Ω / FFC 20 Hz - 20 kHz / 1% THD</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1600 W</td>
</tr>
<tr>
<td>2Ω / EIA 1 kHz / 1% THD</td>
<td>430 W</td>
<td>700 W</td>
<td>900 W</td>
<td>1200 W</td>
<td>2000 W</td>
<td>2500 W</td>
</tr>
</tbody>
</table>

#### Bridge Mono Mode

<table>
<thead>
<tr>
<th></th>
<th>RMX850</th>
<th>RMX1450</th>
<th>RMX1850HD</th>
<th>RMX2450</th>
<th>RMX4050HD</th>
<th>RMX5050</th>
</tr>
</thead>
<tbody>
<tr>
<td>8Ω / FFC 20 Hz - 20 kHz / 0.1% THD</td>
<td>530 W</td>
<td>800 W</td>
<td>1100 W</td>
<td>1300 W</td>
<td>2600 W</td>
<td>3200 W</td>
</tr>
<tr>
<td>8Ω / EIA 1 kHz / 0.1% THD</td>
<td>600 W</td>
<td>900 W</td>
<td>1200 W</td>
<td>1500 W</td>
<td>2800 W</td>
<td>3600 W</td>
</tr>
<tr>
<td>4Ω / EIA 1 kHz / 1% THD</td>
<td>830 W</td>
<td>1400 W</td>
<td>1800 W</td>
<td>2400 W</td>
<td>4000 W</td>
<td>5000 W</td>
</tr>
</tbody>
</table>

#### Continuous average output power per channel

8Ω / FTC 20 Hz - 20 kHz / 0.1% THD
- 8Ω / EIA 1 kHz / 0.1% THD
- 4Ω / FFC 20 Hz - 20 kHz / 0.1% THD
- 2Ω / FFC 20 Hz - 20 kHz / 1% THD
- 2Ω / EIA 1 kHz / 1% THD

#### Distortion (typical)

<table>
<thead>
<tr>
<th></th>
<th>RMX850</th>
<th>RMX1450</th>
<th>RMX1850HD</th>
<th>RMX2450</th>
<th>RMX4050HD</th>
<th>RMX5050</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 Hz - 20 kHz: 10 dB below rated power</td>
<td>&lt; 0.03% THD / 4Ω and 8Ω</td>
<td>&lt; 0.03% THD / 4Ω and 8Ω</td>
<td>&lt; 0.02% THD / 4Ω and 8Ω</td>
<td>&lt; 0.02% THD / 4Ω and 8Ω</td>
<td>&lt; 0.02% THD / 4Ω and 8Ω</td>
<td></td>
</tr>
<tr>
<td>1 kHz and below: full rated power</td>
<td>&gt; 300 at 8Ω</td>
<td>&gt; 250 at 8Ω</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Frequency Response

20 Hz - 20 kHz: ±0.1 dB  
-3 dB points: 5 Hz and 50 kHz (LF filter bypassed / 8Ω)

#### Damping Factor (1 kHz and below)

> 300 at 8Ω

#### Input Impedance

10k ohms unbalanced / 20k ohms balanced

#### Power Requirements

Typical, 1/8 power pink noise at 4Ω: 4.5 A  
Severe, 1/3 power pink noise at 4Ω: 6.6 A

#### Weight

Net: 35 lbs (15.9 kg)  
Shipping: 41 lbs (18.6 kg)

#### Distortion (typical)

20 Hz - 20 kHz: 10 dB below rated power
1 kHz and below: full rated power

#### Frequency Response

20 Hz - 20 kHz: ±0.1 dB  
-3 dB points: 5 Hz and 50 kHz (LF filter bypassed / 8Ω)

#### Damping Factor (1 kHz and below)

> 300 at 8Ω

#### Input Impedance

10k ohms unbalanced / 20k ohms balanced

#### Power Requirements

100, 120, 230 VAC, 50 - 60 Hz (factory configured)

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Specifications subject to change without notice.

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RMX Spec Sheet 09/18/06