

# RMX

## PROFESSIONAL POWER AMPLIFIERS

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.

Model	Watts per Channel			
	8Ω	4Ω	2Ω*	Bridged 4Ω*
RMX 850	200	300	430	830
1450	280	450	700	1400
1850HD	360	600	900	1800
2450	500	750	1200	2400
4050HD	850	1400	2000	4000
5050	1100	1800	2500	5000

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



### RMX 5050

QSC's RMX 5050 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 RMX 5050 is optimized to deliver high levels of sustained power, extraordinary audio performance and road-proven reliability.

### RMX 4050HD

Like its smaller sibling (the RMX 1850HD), the RMX 4050HD 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 RMX 5050 and 4050HD 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. The RMX 4050HD accomplishes all this with a standard 15-Amp plug.

### RMX Features

- Professional quality performance—incorporates road-proven QSC designs
- The 4000w RMX 4050HD operates on a standard 15-Amp plug (120v).
- Both the RMX 4050HD and RMX 5050 feature a dual mono, high current power supply for increased reliability and performance
- The RMX 1850HD and 4050HD provide improved thermal performance yielding higher continuous power in 2-ohms stereo or 4-ohms 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 two-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. An optional 3-year extended service contract is available. Ask your dealer for details.



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RMX SPECIFICATIONS		RMX 850	RMX 1450	RMX 1850HD	RMX 2450	RMX 4050HD	RMX 5050
<b>Stereo Mode</b> (both channels driven)		<b>Continuous Average Output Power Per Channel</b>					
8 ohms	FTC 20 Hz-20 kHz 0.1% THD	185 Watts	260 Watts	350 Watts	450 Watts	800 (650†) Watts	1050 Watts
4 ohms	FTC 20 Hz-20 kHz 0.1% THD	280 Watts	400 Watts	550 Watts	650 Watts	1300 Watts	1600 Watts
2 ohms	FTC 20 Hz-20 kHz 0.1% THD	—	—	—	—	1600 Watts	2000 Watts
8 ohms	EIA 1 kHz 0.1% THD	200 Watts	280 Watts	360 Watts	500 Watts	850 Watts	1100 Watts
4 ohms	EIA 1 kHz 0.1% THD	300 Watts	450 Watts	600 Watts	750 Watts	1400 Watts	1800 Watts
2 ohms	EIA 1 kHz 1% THD	430 Watts	700 Watts	900 Watts	1200 Watts	2000 Watts	2500 Watts
<b>Bridge Mono Mode</b>		<b>Continuous Average Output Power</b>					
8 ohms	FTC 20 Hz-20 kHz 0.1% THD	530 Watts	800 Watts	1100 Watts	1300 Watts	2600 Watts	3200 Watts
8 ohms	EIA 1 kHz 0.1% THD	600 Watts	900 Watts	1200 Watts	1500 Watts	2800 Watts	3600 Watts
4 ohms	EIA 1 kHz 1% THD	830 Watts	1400 Watts	1800 Watts	2400 Watts	4000 Watts	5000 Watts
<b>Signal to Noise (20 Hz-20 kHz) 8 ohms</b>		<-100 dB	<-100 dB	<-100dB	<-100dB	<-100dB	<-100dB
<b>Distortion (SMPTE-IM)</b>		Less than 0.01%	Less than 0.01%	Less than 0.02%	Less than 0.02%	Less than 0.02%	Less than 0.02%
<b>Input Sensitivity @ 8 ohms</b>		1.15v (+3.4 dBu)	1.15v (+3.4 dBu)	1.16v (+3.5 dBu)	1.23v (+4.0 dBu)	1.25v (+4.1 dBu)	1.42v (+5.3 dBu)
<b>Voltage Gain</b>		31.6x (30 dB)	40x (32 dB)	46x (33 dB)	50x (34 dB)	64x (36 dB)	64x (36 dB)
<b>Output Circuitry</b>		AB	AB	Class H, 2-tier	Class H, 2-tier	Class H, 3-tier	Class H, 3-tier
<b>Power Requirements</b>							
Typical, 1/8 power pink noise @ 4 ohms*		4.5 A	6.0 A	6.1 A	6.3 A	10.0 A	13.9 A
Severe, 1/3 power pink noise @ 4 ohms*		6.6 A	9.6 A	11.2 A	15.6 A	20.1 A	26.9 A
<b>Supplied Plug Type, 100/120 V</b>		NEMA 5-15	NEMA 5-15	NEMA 5-15	NEMA 5-15	NEMA 5-15	NEMA 5-20
<b>Supplied Plug Type, 230 V</b>		CEE7/7	CEE7/7	CEE7/7	CEE7/7	CEE7/7	CEE7/7
<b>Weight</b>	Net	35lb.(15.9 kg)	40 lb.(18.2 kg)	44.5 lb.(20.2 kg)	44.5 lb.(20.2 kg)	68 lb.(30.8 kg)	75 lb.(33.1 kg)
	Shipping	41 lb.(18.6 kg)	46 lb.(20.9 kg)	50.5 lb.(23 kg)	50.5 lb.(23 kg)	77 lb.(34.9 kg)	87 lb.(37.2 kg)
<b>Distortion (typical)</b>		20 Hz-20 kHz: 10 dB below rated power				Less than 0.03% THD, 4 & 8 ohms	
		1.0 kHz and below: full rated power				Less than 0.03% THD, 4 & 8 ohms	
<b>Frequency Response</b>		20 Hz-20 kHz: + 0/-1 dB, -3 dB points: 5 Hz-50 kHz, LF filter bypassed, 8 ohms					
<b>Damping Factor (1 kHz and below)</b>		Greater than 300 @ 8 ohms				Greater than 250 @ 8 ohms	
<b>Input Impedance</b>		10 K ohms unbalanced, 20 K ohms balanced					
<b>Input Clipping</b>		10 Vrms (+22 dBu)				6.4 Vrms (+18 dBu)	
<b>Cooling</b>		Continuously variable speed fan, back-to-front air flow					
<b>Connectors (each channel)</b>		Input: Active balanced; barrier strip, XLR and 1/4" (6.3 mm). TRS tip and XLR pin 2 positive Output: Touch-proof binding posts and Neutrik Speakon™					
<b>Controls</b>		Front: AC switch, Ch.1 and Ch.2 gain knobs Rear: 10-position DIP switch					
<b>Indicators</b>		PWR-ON: Green LED		SIGNAL: Yellow LED (1 per channel)		CLIP: Red LED (1 per channel)	
<b>Indicators, RMX 4050HD and RMX 5050</b>						PROTECT: Red LED	
<b>Amplifier Protection</b>		Full short circuit, open circuit, thermal, ultrasonic, and RF protection. Stable into reactive or mismatched loads					
<b>Load Protection</b>		Turn-on/turn-off muting, AC coupling (850, 1450), triac crowbar (1850HD, 2450, 4050HD, 5050), on each channel					
<b>Dimensions</b>		3.5" (8.9 cm) tall, 2 rack spaces				5.25" (13.3 cm) tall, 3 rack spaces	
<b>Power Requirements</b>		100,120, 230 VAC, 50-60 Hz (factory configured)					

\* @ 120VAC, both channels driven; multiply current by .5 for 230V units. † CE Rating. Specifications subject to change without notice.

