RMX 5050

PROFESSIONAL POWER AMPLIFIER

Preliminary Specifications

The RMX 5050

QSC's RMX 5050 power amplifier represents the 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.

Like its smaller sibling (the RMX 4050HD), the RMX 5050 features a three-tier, Class H design. The RMX 5050 is extremely efficient at real world power levels. Less AC current is wasted and more goes into producing useful audio power. The RMX 5050 uses the best available component upgrades to increase peak power by 25% over the RMX 4050HD.

Like all RMX amps, the RMX 5050 features balanced 1/4" TRS, XLR and barrier strip inputs, binding posts and Neutrik Speakon™ outputs, front-mounted gain controls, plus signal and clip LED indicators to monitor performance.

RMX 5050 Features

- **The new flagship of the RMX line, the RMX 5050 provides extremely high power and represents tremendous value**
- **The RMX 5050 provides advanced thermal performance, delivering higher continuous power in 2-ohms stereo or 4-ohms bridged applications**
- **Dual mono, high current power supply for increased reliability and performance**
- **3RU chassis only 16" deep**
- **Professional quality performance—incorporates road-proven QSC designs**
- **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 for maximum flexibility**
- **Binding post and Neutrik Speakon™ outputs**
- **Front mounted gain controls for easy access**
- **Signal and Clip LED indicators to monitor performance**
- **3-year warranty. An optional 3-year extended service contract is available. Ask your dealer for details.**

Both channels driven		20 Hz–20 kHz, 0.1% THD*	1 kHz, 0.1% THD (EIA Watts)
Stereo (W/Ch)	8 ohms	1050 watts	1100 watts
	4 ohms	1600 watts	1800 watts
	2 ohms	2000 watts	2500 watts †
Bridged Mono	8 ohms	3200 watts	3600 watts
	4 ohms	–	5000 watts †

*FTC Watts †1 kHz, 1% THD

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Stereo Mode (both channels driven)				*Continuous Average Output Power Per Channel*
8 ohms	FTC 20 Hz–20 kHz	0.1%	THD	1050 Watts
4 ohms	FTC 20 Hz–20 kHz	0.1%	THD	1600 Watts
2 ohms	FTC 20 Hz–20 kHz	0.1%	THD	2000 Watts
8 ohms	EIA 1 kHz	0.1%	THD	1100 Watts
4 ohms	EIA 1 kHz	0.1%	THD	1800 Watts
2 ohms	EIA 1 kHz	1%	THD	2500 Watts
Bridge-Mono Mode				*Bridge-Mono Mode Operation*
8 ohms	FTC 20 Hz–20 kHz	0.1%	THD	3200 Watts
8 ohms	EIA 1 kHz	0.1%	THD	3600 Watts
4 ohms	EIA 1 kHz	1%	THD	5000 Watts

Distortion (SMPTE-IM)	Less than 0.02%
Distortion (typical) 20 Hz-20 kHz: 10 dB below rated power 1 kHz and below: full rated power	 Less than 0.02% Less than 0.02%
Frequency Response	20 Hz to 20 kHz, 8 ohms, LF filter bypassed, +0/-1 dB 5 Hz to 50 kHz, 8 ohms, LF filter bypassed, +0/-3 dB
Damping Factor	Greater than 250 @ 8Ω
Noise (unweighted)	100 dB below rated output (20 Hz to 20 kHz, 8Ω load)
Input Sensitivity	1.42 Vrms for 1050 watts into 8Ω
Controls Front Panel: Rear Panel:	AC power switch, Ch. 1 and Ch. 2 gain control 10-pole DIP switch featuring LF filter on/off, LF filter 30/50 Hz, Clip Limiter on/off controls for each channel and switches for selecting Stereo, Parallel, or Bridge mode. Push-button circuit breaker for each channel.
Voltage Gain	64x (36 dB) for 8Ω load
Input Impedance	20 kΩ balanced, 10 kΩ unbalanced
Indicators	Power-On: Green LED, Protect: Red LED Signal -30dB: Yellow LED, Clip: Red LED
Connectors Input: Output:	XLR female, TRS (1/4-inch), and barrier-strip screw terminals, each channel Binding posts and Speakon outputs (Ch. 1 Speakon wired for biamp)
Cooling	Continuously variable-speed fan, rear-to-front air flow
Amplifier Protection	Short circuit, open circuit, thermal, ultrasonic, and RF protection. Stable into reactive or mismatched loads
Load Protection	On/off muting, DC fault output crowbar
Power Requirements	100, 120 or 240 Volts AC (±10%) 50-60 Hz (factory configured)120V models require 20 Amp, 120V service and are supplied with a NEMA 5-20 plug on the cordset.
Dimensions	19.0" (48.3 cm) wide, 5.25" (13.3 cm) tall, 15.9" (40.39 cm) overall depth
Weight	75 lb (34.02 kg) net, 87 lb (39.46 kg) shipping

Specifications subject to change without notice.

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