



# RMX Series Amplifier Current Draw—120 VAC

February 2016

"Current draw" is the amount of AC current an amplifier demands while it is operating. Measurements are provided for various loads at idle, 1/8 of average full power, 1/3 of average full power, and full power, with all channels driven simultaneously. The figures shown on this sheet are for 120 VAC usage; for 230- and 100-volt operation, see the companion sheets. For typical usage, use the idle and 1/8 power figures.

Where an asterisk (\*) appears, the data was not available at press time. The designations "na" and "nr" respectively mean "not applicable" to the particular amplifier model and "not rated" for the particular load impedance. Bridged mono into 8 ohms is equivalent to 4 ohms per channel; into 4 ohms is equivalent to 2 ohms per channel.

Model	<b>Idle</b>					<b>1/8 Power</b>				<b>1/3 Power</b>				<b>Full Power</b>			
	Current draw at idle or with very low signal level.					Current draw at 1/8 of full power is measured with pink noise as a signal. It approximates operating with music or voice with light clipping and represents the amplifier's typical "clean" maximum level, without audible clipping. Use these figures for typical maximum level operation.				Current draw at 1/3 of full power is measured with pink noise as a signal. It approximates operating with music or voice with very heavy clipping and a very compressed dynamic range.				Current draw at full power is measured with a 1 kHz sine wave. However, it does not represent any real-world operating condition.			
	Load per channel ->	8Ω	4Ω	2Ω	25V-70V-100V	8Ω	4Ω	2Ω	25V-70V-100V	8Ω	4Ω	2Ω	25V-70V-100V	8Ω	4Ω	2Ω	25V-70V-100V
Amperes	Amperes	Amperes	Amperes	Amperes	Amperes	Amperes	Amperes	Amperes	Amperes	Amperes	Amperes	Amperes	Amperes	Amperes	Amperes	Amperes	
RMX850a	0.4	2.8	4.4	6.2	4.1	6.6	9.2	7.1	11.3	16.5							
RMX1450a	0.3	3.7	6.0	9.3	5.4	9.6	14.7	9.7	16.0	24.9							
RMX2450a	0.7	4.0	6.3	9.2	9.7	15.6	22.9	16.4	27.0	40.7							
RMX4050a	1.2	6.4	10.1	14.5	12.5	20.1	30.6	25.5	42.2	65.7							
RMX5050a	1.2	8.4	13.9	17.6	16.5	26.9	36.2	32.5	56.4	83.5							



# RMX Series Amplifier Current Draw—230 VAC

February 2016

"Current draw" is the amount of AC current an amplifier demands while it is operating. Measurements are provided for various loads at idle, 1/8 of average full power, 1/3 of average full power, and full power, with all channels driven simultaneously. The figures shown on this sheet are for 230 VAC usage; for 120- and 100-volt operation, see the companion sheets. For typical usage, use the idle and 1/8 power figures.

Where an asterisk (\*) appears, the data was not available at press time. The designations "na" and "nr" respectively mean "not applicable" to the particular amplifier model and "not rated" for the particular load impedance. Bridged mono into 8 ohms is equivalent to 4 ohms per channel; into 4 ohms is equivalent to 2 ohms per channel.

		<b>1/8 Power</b>				<b>1/3 Power</b>				<b>Full Power</b>			
		Current draw at 1/8 of full power is measured with pink noise as a signal. It approximates operating with music or voice with light clipping and represents the amplifier's typical "clean" maximum level, without audible clipping. Use these figures for typical maximum level operation.				Current draw at 1/3 of full power is measured with pink noise as a signal. It approximates operating with music or voice with very heavy clipping and a very compressed dynamic range.				Current draw at full power is measured with a 1 kHz sine wave. However, it does not represent any real-world operating condition.			
Load per channel ->		8Ω	4Ω	2Ω	25V-70V-100V	8Ω	4Ω	2Ω	25V-70V-100V	8Ω	4Ω	2Ω	25V-70V-100V
Model	Amperes	Amperes	Amperes	Amperes	Amperes	Amperes	Amperes	Amperes	Amperes	Amperes	Amperes	Amperes	Amperes
RMX850a	0.2	1.4	2.2	3.1		2.1	3.3	4.6		3.6	5.7	8.3	
RMX1450a	0.2	1.9	3.0	4.7		2.7	4.8	7.4		4.9	8.0	12.5	
RMX2450a	0.4	2.0	3.2	4.6		4.9	7.8	11.5		8.2	13.5	20.4	
RMX4050a	0.6	3.2	5.1	7.3		6.3	10.1	15.3		12.8	21.1	32.9	
RMX5050a	0.6	4.2	7.0	8.8		8.3	13.5	18.1		16.3	28.2	41.8	



# RMX Series Amplifier Current Draw—100 VAC

February 2016

"Current draw" is the amount of AC current an amplifier demands while it is operating. Measurements are provided for various loads at idle, 1/8 of average full power, 1/3 of average full power, and full power, with all channels driven simultaneously. The figures shown on this sheet are for 100 VAC usage; for 230- and 120-volt operation, see the companion sheets. For typical usage, use the idle and 1/8 power figures.

Where an asterisk (\*) appears, the data was not available at press time. The designations "na" and "nr" respectively mean "not applicable" to the particular amplifier model and "not rated" for the particular load impedance. Bridged mono into 8 ohms is equivalent to 4 ohms per channel; into 4 ohms is equivalent to 2 ohms per channel.

		<b>Idle</b>				<b>1/8 Power</b>				<b>1/3 Power</b>				<b>Full Power</b>			
		Current draw at idle or with very low signal level.				Current draw at 1/8 of full power is measured with pink noise as a signal. It approximates operating with music or voice with light clipping and represents the amplifier's typical "clean" maximum level, without audible clipping. Use these figures for typical maximum level operation.				Current draw at 1/3 of full power is measured with pink noise as a signal. It approximates operating with music or voice with very heavy clipping and a very compressed dynamic range.				Current draw at full power is measured with a 1 kHz sine wave. However, it does not represent any real-world operating condition.			
		Load per channel ->															
Model	Amperes	8Ω	4Ω	2Ω	25V-70V-100V	8Ω	4Ω	2Ω	25V-70V-100V	8Ω	4Ω	2Ω	25V-70V-100V	8Ω	4Ω	2Ω	25V-70V-100V
RMX850a	0.5	3.4	5.3	7.4		4.9	7.9	11.0		8.5	13.6	19.8					
RMX1450a	0.4	4.4	7.2	11.2		6.5	11.5	17.6		11.6	19.2	29.9					
RMX2450a	0.8	4.8	7.6	11.0		11.6	18.7	27.5		19.7	32.4	48.8					
RMX4050a	1.4	7.7	12.1	17.4		15.0	24.1	36.7		30.6	50.6	78.8					
RMX5050a	1.4	10.1	16.7	21.1		19.8	32.3	43.4		39.0	67.7	100.2					



# Amplifier Heat Loss

January 2015

Heat losses are the thermal emissions from an amplifier while it is operating. It comes from dissipated waste power—i.e., real AC power in minus audio power out. Measurements are provided for various loads at idle, 1/8 of average full power, 1/3 of average full power, and full power, with all channels driven simultaneously. For typical usage, use the idle and 1/8 power figures. Where an asterisk (\*) appears, the data was not available at press time. The designation "na" means not applicable to the particular amplifier model and "nr" means the model is not rated for the particular load. This data is measured from representative samples; due to production tolerances, actual heat emissions may vary slightly from one unit to another. Bridged mono into 8 ohms is equivalent to 4 ohms per channel; into 4 ohms is equivalent to 2 ohms per channel.

Model	<b>Idle</b>		<b>1/8 Power</b>								<b>1/3 Power</b>								<b>Full Power</b>							
	Thermal loss at idle or with very low signal level. Not all models were tested.		Thermal loss at 1/8 of full power is measured with pink noise. It approximates operating with music or voice with light clipping and represents the amplifier's typical "clean" maximum level, without audible clipping. Use these figures for typical maximum level operation.								Thermal loss at 1/3 of full power is measured with pink noise. It approximates operating with music or voice with very heavy clipping and a very compressed dynamic range.								Thermal loss at full power is measured with a 1 kHz sine wave. However, it does not represent any real-world operating condition.							
	Load per channel ->		8Ω		4Ω		2Ω		25V-70V-		8Ω		4Ω		2Ω		25V-70V-		8Ω		4Ω		2Ω		25V-70V-	
	BTU/hr	kcal/hr	BTU/hr	kcal/hr	BTU/hr	kcal/hr	BTU/hr	kcal/hr	BTU/hr	kcal/hr	BTU/hr	kcal/hr	BTU/hr	kcal/hr	BTU/hr	kcal/hr	BTU/hr	kcal/hr	BTU/hr	kcal/hr	BTU/hr	kcal/hr	BTU/hr	kcal/hr		
<b>Current models</b>																										
<b>RMX850a</b>	85	21	577	145	1068	269	1669	421			696	175	1355	341	2157	544			799	201	1509	380	2853	719		
<b>RMX1450a</b>	78	20	887	224	1454	366	2597	654			1061	267	1969	496	3734	941			1007	254	1870	471	3734	941		
<b>RMX2450a</b>	273	69	819	206	1365	344	2218	559			1758	443	2881	726	4997	1259			1587	400	3294	830	6314	1591		
<b>RMX4050a</b>	273	69	1031	260	1672	421	2901	731			1584	399	3331	839	5352	1349			2048	516	4754	1198	9670	2437		
<b>RMX5050a</b>	273	69	1317	332	2485	626	3089	778			2184	550	3983	1004	5983	1508			2823	711	5529	1393	12082	3045		