

Amplifier Heat Loss

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 2 ohms per channel.

omins per originio,	Idle Thermal idle or w low signa Not all m	loss at ith very al level.	1/8 Power Thermal loss at 1/8 of full power is measured with pink noise. It approximates operating with music or voice with light clipping and repesents the amplifier's typical "clean" maximum level, without audible clipping. Use these figures for typical maximum level								1/3 Power 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.								Full Power Thermal loss at full power is measured with a 1 kHz sine wave. However, it does not represent any real-world operating condition.						
Ī	Load per channel ->		> 8Ω		4	4Ω		2Ω		25V-70V-		8Ω		4Ω		Ω	25V-70V-		8Ω		4Ω		Ω	25V-70V-	
Model	BTU/hr	kcal/hr	BTU/hr	kcal/hr	BTU/hr	kcal/hr	BTU/hr	kcal/hr	BTU/hr	kcal/hr	BTU/hr	kcal/hr	BTUI/hr	kcal/hr	BTU/hr	kcal/hr	BTU/hr kcal/hi	BTU	/hr kcal/h	r BTU/hr	kcal/hr	BTU/hr	kcal/hr	BTU/hr kcal/hr	
Current models	3																								
RMX850a	85	21	577	145	1068	269	1669	421			696	175	1355	341	2157	544		79	9 201	1509	380	2853	719		
RMX1450a	78	20	887	224	1454	366	2597	654			1061	267	1969	496	3734	941		100	7 254	1870	471	3734	941		
RMX2450a	273	69	819	206	1365	344	2218	559			1758	443	2881	726	4997	1259		158	37 400	3294	830	6314	1591		
RMX4050a	273	69	1031	260	1672	421	2901	731			1584	399	3331	839	5352	1349		204	18 516	4754	1198	9670	2437		
RMX5050a	273	69	1317	332	2485	626	3089	778			2184	550	3983	1004	5983	1508		282	23 711	5529	1393	12082	3045		
	ı																								