



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 4 ohms per channel; into 4 ohms is equivalent to 2 ohms per channel.

Model	Idle		1/8 Power						1/3 Power						Full Power					
	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.					
			8Ω		4Ω		2Ω		8Ω		4Ω		2Ω		8Ω		4Ω		2Ω	
	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
Current models																				
DPA 4.3																				
DPA 4.3Q	225	57	684	172	794	200	1040	262	983	248	1261	318	1869	471	2498	629	2925	737	4198	1058
DPA 4.5																				
DPA 4.5Q	286	72	811	204	1144	288	1124	283	881	222	1708	430	1737	438	3116	785	5318	1340	4208	1060