

## **CX-Q(n) Series 8-Channel 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. The differences in heat loss among 100-, 120-, and 230-volt mains supplies are statistically insignificant.

voit mamo supplies are stat	iotically inoignin	iourit.																										
	Idle Mute All S					ndby		1/8 Power											1/3 Power									
	Thermal loss at Thermal loss with				Thermal	loss with	Thermal I	Thermal loss at 1/8 of full power is measured with a pink noise signal. It approximates operating									Thermal loss at 1/3 of full power is measured with a 1 kHz sine wave signal. It approximates											
	idle or with very all channels the amplifie					ifier in	with mus	with music or voice with light clipping and represents the amplifier's typical "clean" maximum									operating with music or voice with very heavy clipping and a very compressed dynamic range.											
	low signal level. muted star						level, wit	level, without audible clipping. Use these figures for typical maximum level operation.									This data describes the maximum operating parameters of the amplifier under working											
												conditions reproducing music or voice. Using the amplifier under this condition for prolonged																
												periods of time, though, is not recommended.																
	Load per channel ->					8Ω		4	4Ω		2Ω		70V		100V		8Ω		4Ω		2Ω		70V		100V			
Model	BTU/hr k	ccal/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/	r kcal/h	r BTU/hr	kcal/hr	BTU/hr	kcal/hr	BTU/hr	kcal/hr	BTU/hr	kcal/hr		
Current models																												
CX-4k8Q, CX-4k8Qn	621	156	153	39	150	38	529	133	805	203	1208	304	587	148	512	129	843	212	1444	364	2468	622	1079	272	833	210		
CX-8k8Q, CX-8k8Qn	672	169	166	42	157	40	1229	310	1829	461	1181	298	1290	325	1184	298	163	411	2928	738	2532	638	1778	448	1618	408		