CXD Series 8-Channel Amplifier Heat Loss—120 V

May 2018

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.

	Idle Thermal loss at idle or with very low signal level.		***Standby*** Thermal loss with the amplifier in standby.		***1/8 Power*** Thermal loss at 1/8 of full power is measured with a 1 kHz sine wave 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.								***1/3 Power*** Thermal loss at 1/3 of full power is measured with a 1 kHz sine wave signal. 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.							
Load per channel ->					**8Ω**		**4Ω**		**2Ω**		**70V - 100V**		**8Ω**		**4Ω**		**2Ω**		**70V - 100V**		**8Ω**		**4Ω**		**2Ω**		**70V - 100V**	
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**	**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																												
CXD8.4Q, CXD8.4Qn	548	138	164	41	942	237	1100	277	1385	349	1100	277	1362	343	1700	428	2259	569	1700	428	2601	655	3304	833	5546	1398	3304	833
CXD8.8Q, CXD8.8Qn	642	162	167	42	1352	341	1317	332	1519	383	1317	332	1976	498	2474	623	2461	620	2474	623	5140	1295	6137	1547	4358	1098	6137	1547