CXD Series 8-Channel Amplifier Heat Loss—230 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	546	138	178	45	889	224	1008	254	1253	316	1008	254	1399	353	1621	408	2020	509	1621	408	2280	575	2826	712	4730	1192	2826	712
CXD8.8Q, CXD8.8Qn	580	146	157	40	1290	325	1399	353	1556	392	1399	353	1980	499	2263	570	2164	545	2263	570	3748	944	4638	1169	3843	968	4638	1169