

ELECTRONICS CURRENT DRAW AND BTU GUIDE



Quick US 120V Breakdown	Total Max number of SA2's	Total Max number of SA3's	Total Max number of SA8's
15A Branch Circuit	4	3	2
20A Branch Circuit	5	4	3

Product	Watts in Rack Only (for rack cooling)						BTU/hr *Waste Heat Not Used for Audio					
	Standby	Idle	12.50%	25.00%	33.30%	100%	Standby	Idle	12.50%	25.00%	33.30%	100%
SA-2 / SA-2DSP	0.43	24	42.8	61.5	74	174	1.5	81.9	145.9	209.8	252.5	593.7
SA-3 / SA-3DSP	0.43	29	57.1	85.3	104	209	1.5	99	194.9	290.9	354.9	713.1
SA-8 / SA-8DSP / IA-8DSP	0.3	30.5	60	89.6	109.2	219.5	1	104	205	306	373	749
SW-1 / SW-1DSP	0.15	12.8	21.6	30.4	36.3	83.3	0.5	43.7	73.7	103.8	123.9	284.2

Product	Total Current Draw 120V Mains (in amps)						Total Current Draw 230V Mains (in amps)					
	Standby	Idle	12.50%	25.00%	33.30%	100%	Standby	Idle	12.50%	25.00%	33.30%	100%
SA-2 / SA-2DSP	0	0.2	1.4	2.6	3.39	9.78	0	0.1	0.73	1.35	1.77	5.1
SA-3 / SA-3DSP	0	0.24	2.04	3.84	5.03	14.24	0	0.13	1.06	2	2.63	7.43
SA-8 / SA-8DSP / IA-8DSP	0	0.25	3.8	7.1	9.3	15 ⁽¹⁾	0	0.25	2	3.7	4.9	12 ⁽¹⁾
SW-1 / SW-1DSP	0	0.11	0.63	1.15	1.5	4.28	0	0.19	0.37	0.68	0.88	2.54

Current Draw is based on **4Ω** loads across all outputs, with all outputs driving the same source material (mono input signal).
8Ω loads would be approximately half the current draw typically.

Use the **12.5%** column for calculating high-volume level operating conditions.

12.5% is 1/8th power pink noise, which is the equivalent of typical of program material being played at onset of clipping levels.

The **33%** Column is typical of the power draw when the amplifiers are experiencing extreme clipping on program material.

The **100%** Column is the theoretical maximum power draw with a pure sign wave input.

NOTES:

(1) Maximum continuous current draw is limited by the maximum safety ratings of the SA-8 / IA-8. Short term power to the speaker terminals are approximately double.