

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)					
	Standby	Idle	12.50%	25.00%	33.30%	100%
SA-2	0.43	24	42.8	61.5	74	174
SA-3	0.43	29	57.1	85.3	104	209
SA-8/DSP	0.5	30.5	60.0	89.6	109.2	219.5
SW-1	0.15	12.8	21.6	30.4	36.3	83.3
SC-2	0.18	27.2	27.2	27.2	27.2	27.2
SC-3	0.18	27.2	27.2	27.2	27.2	27.2
MiniDSP-1	5.12	5.12	5.12	5.12	5.12	5.12

Product	BTU/hr					
	Standby	Idle	12.50%	25.00%	33.30%	100%
SA-2	1.5	81.9	145.9	209.8	252.5	593.7
SA-3	1.5	99	194.9	290.9	354.9	713.1
SA-8/DSP	1.6	104.0	204.6	305.4	372.6	748.8
SW-1	0.5	43.7	73.7	103.8	123.9	284.2
SC-2	0.6	92.8	92.8	92.8	92.8	92.8
SC-3	0.6	92.8	92.8	92.8	92.8	92.8
MiniDSP-1	17.5	17.5	17.5	17.5	17.5	17.5

Product	Total Current Draw 120V Mains (in amps)					
	Standby	Idle	12.50%	25.00%	33.30%	100%
SA-2	0	0.2	1.4	2.6	3.39	9.78
SA-3	0	0.24	2.04	3.84	5.03	14.24
SA-8/DSP	0	0.252	2.142	4.032	5.28	14.952
SW-1	0	0.11	0.63	1.15	1.5	4.28
SC-2	0	0.23	0.23	0.23	0.23	0.23
SC-3	0	0.23	0.23	0.23	0.23	0.23
MiniDSP-1	0.04	0.04	0.04	0.04	0.04	0.04

Product	Total Current Draw 230V Mains (in amps)					
	Standby	Idle	12.50%	25.00%	33.30%	100%
SA-2	0	0.1	0.73	1.35	1.77	5.1
SA-3	0	0.13	1.06	2	2.63	7.43
SA-8/DSP	0	0.14	1.11	2.1	2.76	7.80
SW-1	0	0.19	0.37	0.68	0.88	2.54
SC-2	0	0.12	0.12	0.12	0.12	0.12
SC-3	0	0.12	0.12	0.12	0.12	0.12
MiniDSP-1	0.02	0.02	0.02	0.02	0.02	0.02

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.