



WISDOM SW-1 DSP Subwoofer Amplifier User Guide

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ELECTRONICS CURRENT DRAW AND BTU GUIDE

Quick US 120V Breakdown	Total Max number of S A2's	Total Max number of S A3's	Total Max number of S A8's
15A Branch Circuit	4	3	2
20A Branch Circuit	5	4	3

	Watts in Rack Only (for rack cooling)					
Product	Standby	Idle	12.50%	25.00%	33.30%	100%
SA-2 / SA-2DSP	0.43	24	42.8	61.5	74	174
SA-3 / SA-3DSP	0.43	29	57.1	85.3	104	209
SA-8 / SA-8DSP / IA-8DSP	0.3	30.5	60	89.6	109.2	219.5
SW-1 / SW-1DSP	0.15	12.8	21.6	30.4	36.3	83.3

BTU/hr*Waste Heat Not Used for Audio					
Standby	Idle	12.50%	25.00%	33.30%	100%
1.5	81.9	145.9	209.8	252.5	593.7
1.5	99	194.9	290.9	354.9	713.1
1	104	205	306	373	749
0.5	43.7	73.7	103.8	123.9	284.2

	Total Current Draw 120V Mains (in amps)					
Product	Standby	Idle	12.50%	25.00%	33.30%	100%
SA-2 / SA-2DSP	0	0.2	1.4	2.6	3.39	9.78
SA-3 / SA-3DSP	0	0.24	2.04	3.84	5.03	14.24
SA-8 / SA-8DSP / IA-8DSP	0	0.25	3.8	7.1	9.3	15(1)
SW-1 / SW-1DSP	0	0.11	0.63	1.15	1.5	4.28

Total Current Draw 230V Mains (in amps)					
Standby	Idle	12.50%	25.00%	33.30%	100%
0	0.1	0.73	1.35	1.77	5.1
0	0.13	1.06	2	2.63	7.43
0	0.25	2	3.7	4.9	12(1)
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.

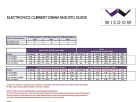
The 33% Column is typical of the power draw when the amplifiers are experiencing extreme clipping on program material.

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.



Documents / Resources

	WISDOM SW-1 DSP Subwoofer Amplifier [pdf] User Guide SW-1 DSP Subwoofer Amplifier, SW-1 DSP, Subwoofer Amplifier, Amplifier
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References

- [User Manual](#)