



SPA-Qf 60x2

AC Current Draw and Thermal Dissipation

Output Level	Load (ohms, bridged)	100 V AC Mains			120 V AC Mains			230 V AC Mains		Thermal Dissipation	
		AC Current	Power Factor	Losses (Watts)	AC Current	Power Factor	Losses (Watts)	AC Current	Power Factor	Losses (Watts)	BTU/h
Idle		0.32	0.59	19	0.27	0.59	19	0.21	0.39	19	65
Mute		0.32	0.59	19	0.27	0.59	19	0.21	0.39	19	65
Standby/Power Save		0.20	0.49	10	0.19	0.44	10	0.17	0.28	11	34
1/8 rated power (pink noise)	2 Ω per Ch	0.52	0.86	30	0.45	0.83	30	0.35	0.55	30	103
	4 Ω per Ch	0.47	0.83	24	0.41	0.80	24	0.33	0.52	24	83
	8 Ω per Ch	0.46	0.83	24	0.40	0.80	24	0.32	0.52	23	81
	16 Ω per Ch	0.46	0.83	23	0.40	0.79	23	0.32	0.51	23	79
	40 Ω per Ch (70V)	0.45	0.83	22	0.39	0.79	22	0.38	0.43	22	76
	80 Ω per Ch (100V)	0.45	0.83	22	0.39	0.79	22	0.32	0.50	22	76
1/3 rated power (1 kHz)	2 Ω per Ch	0.87	0.95	42	0.73	0.93	41	0.52	0.68	42	142
	4 Ω per Ch	0.82	0.94	36	0.68	0.93	36	0.49	0.65	35	123
	8 Ω per Ch	0.79	0.93	34	0.66	0.93	33	0.47	0.67	32	113
	16 Ω per Ch	0.75	0.92	29	0.62	0.92	28	0.45	0.66	28	96
	40 Ω per Ch (70V)	0.72	0.92	26	0.60	0.91	26	0.44	0.64	25	88
	80 Ω per Ch (100V)	0.71	0.92	25	0.60	0.91	25	0.44	0.63	24	85

Note: 1/8 rated power is measured with pink noise is representative of typical playback of dynamic content with crest factor. 1/3 Rated power is measured with a 1khz sine wave. This is representative of worse case scenario of what the device draw and dissipate. Measurements are conducted with all channels driven with each channel driving the same load.



SPA-Qf 60x4

AC Current Draw and Thermal Dissipation

Output Level	Load (ohms, bridged)	100 V AC Mains			120 V AC Mains			230 V AC Mains		Thermal Dissipation	
		AC Current	Power Factor	Losses (Watts)	AC Current	Power Factor	Losses (Watts)	AC Current	Power Factor	Losses (Watts)	BTU/h
Idle		0.37	0.63	23	0.33	0.60	23	0.24	0.44	24	79
Mute		0.37	0.63	23	0.33	0.59	23	0.24	0.44	24	79
Standby/Power Save		0.20	0.47	9	0.17	0.45	9	0.16	0.29	10	31
1/8 rated power (pink noise)	2 Ω per Ch	0.69	0.89	32	0.60	0.87	32	0.45	0.60	32	109
	4 Ω per Ch	0.67	0.90	30	0.57	0.87	30	0.44	0.59	30	102
	8 Ω per Ch	0.65	0.90	28	0.56	0.87	28	0.41	0.60	28	97
	16 Ω per Ch	0.65	0.89	28	0.56	0.87	28	0.42	0.60	27	96
	40 Ω per Ch (70V)	0.66	0.90	29	0.56	0.87	29	0.42	0.61	28	97
	80 Ω per Ch (100V)	0.65	0.90	29	0.55	0.87	27	0.41	0.61	28	94
1/3 rated power (1 kHz)	2 Ω per Ch	1.50	0.95	62	1.20	0.97	59	0.72	0.83	57	203
	4 Ω per Ch	1.46	0.96	60	1.17	0.96	55	0.68	0.83	51	186
	8 Ω per Ch	1.39	0.96	54	1.13	0.96	50	0.65	0.83	44	171
	16 Ω per Ch	1.29	0.97	44	1.07	0.95	41	0.65	0.80	39	141
	40 Ω per Ch (70V)	1.21	0.97	37	1.00	0.95	35	0.60	0.82	33	120
	80 Ω per Ch (100V)	1.19	0.97	36	1.00	0.95	34	0.59	0.82	32	116

Note: 1/8 rated power is measured with pink noise is representative of typical playback of dynamic content with crest factor. 1/3 Rated power is measured with a 1khz sine wave. This is representative of worse case scenario of what the device draw and dissipate. Measurements are conducted with all channels driven with each channel driving the same load.