

CSA 2120Z																	
*1KHz sinewave, both channel driven		100 VAC/ 50 Hz				120 VAC/ 60 Hz				220 VAC/ 50 Hz				240 VAC/ 50 Hz			
Condition	Load	Line Current	Power Dissipated as Heat			Line Current	Power Dissipated as Heat			Line Current (Amps)	Power Dissipated as Heat			Line Current	Power Dissipated as Heat		
			Watts	BTU	Kcal/hr		Watts	BTU	Kcal/hr		Watts	BTU	Kcal/hr		Watts	BTU	Kcal/hr
Idle (Sleep mode)			0.36	1.23	0.31		0.39	1.33	0.34		0.74	2.52	0.64		0.82	2.80	0.71
Idle (Awake)			9.15	31.20	7.87		9.54	32.53	8.20		12.54	42.76	10.78		12.81	43.68	11.02
1/8th rated power	8 ohms/ch	0.89	19.12	65.20	16.44	0.77	19.50	66.50	16.77	0.58	20.40	69.56	17.54	0.51	21.20	72.29	18.23
	4 ohm/ch	0.94	22.76	77.61	19.57	0.81	23.45	79.96	20.17	0.61	24.50	83.55	21.07	0.57	25.10	85.59	21.59
1/3rd rated power	8 ohms/ch	1.94	36.30	123.78	31.22	1.67	37.94	129.38	32.63	1.14	39.20	133.67	33.71	1.04	40.80	139.13	35.09
	4 ohm/ch	2.11	38.50	131.29	33.11	1.82	45.20	154.13	38.87	1.21	46.50	158.57	39.99	1.13	48.60	165.73	41.80
Full rated power	8 ohms/ch	5.30	105.00	358.05	90.30	4.85	113.00	385.33	97.18	2.76	120.20	409.88	103.37	2.80	125.00	426.25	107.50
	4 ohm/ch	6.08	143.70	490.02	123.58	5.47	163.20	556.51	140.35	3.45	180.20	614.48	154.97	3.05	190.20	648.58	163.57

CSA 280Z																	
*1KHz sinewave, both channel driven		100 VAC/ 50 Hz				120 VAC/ 60 Hz				220 VAC/ 50 Hz				240 VAC/ 50 Hz			
Condition	Load	Line Current	Power Dissipated as Heat			Line Current	Power Dissipated as Heat			Line Current (Amps)	Power Dissipated as Heat			Line Current	Power Dissipated as Heat		
			Watts	BTU	Kcal/hr		Watts	BTU	Kcal/hr		Watts	BTU	Kcal/hr		Watts	BTU	Kcal/hr
Idle (Sleep mode)			0.36	1.23	0.31		0.39	1.33	0.34		0.85	2.90	0.73		0.86	2.93	0.74
Idle (Awake)			8.29	28.27	7.13		8.66	29.53	7.45		12.50	42.63	10.75		12.75	43.48	10.97
1/8th rated power	8 ohms/ch	0.69	15.54	52.99	13.36	0.64	15.62	53.26	13.43	0.44	16.80	57.29	14.45	0.41	17.30	58.99	14.88
	4 ohm/ch	0.97	18.60	63.43	16.00	0.81	20.10	68.54	17.29	0.53	20.40	69.56	17.54	0.58	21.70	74.00	18.66
1/3rd rated power	8 ohms/ch	1.48	26.20	89.34	22.53	1.32	26.70	91.05	22.96	0.87	25.00	85.25	21.50	0.81	27.80	94.80	23.91
	4 ohm/ch	2.09	38.40	130.94	33.02	1.78	39.80	135.72	34.23	1.12	39.60	135.04	34.06	1.06	42.70	145.61	36.72
Full rated power	8 ohms/ch	4.30	69.00	235.29	59.34	3.60	71.00	242.11	61.26	2.35	84.30	287.46	72.50	2.18	86.50	294.97	74.39
	4 ohm/ch	5.96	139.20	474.67	119.71	5.35	157.40	536.73	135.36	3.42	173.20	590.61	148.95	3.22	181.70	619.60	156.26

CSA 240Z																	
*1KHz sinewave, both channel driven		100 VAC/ 50 Hz				120 VAC/ 60 Hz				220 VAC/ 50 Hz				240 VAC/ 50 Hz			
Condition	Load	Line Current	Power Dissipated as Heat			Line Current	Power Dissipated as Heat			Line Current (Amps)	Power Dissipated as Heat			Line Current	Power Dissipated as Heat		
			Watts	BTU	Kcal/hr		Watts	BTU	Kcal/hr		Watts	BTU	Kcal/hr		Watts	BTU	Kcal/hr
Idle (Sleep mode)			0.36	1.23	0.31		0.39	1.33	0.34		0.88	3.00	0.73		0.94	3.21	0.81
Idle (Awake)			8.14	27.76	7.00		8.39	28.61	7.22		12.48	42.56	10.76		12.54	42.76	10.78
1/8th rated power	8 ohms/ch	0.55	13.24	45.15	11.39	0.46	13.49	46.00	11.60	0.35	14.20	48.42	12.21	0.34	14.60	49.79	12.56
	4 ohm/ch	0.73	17.50	59.68	15.05	0.63	17.98	61.31	15.46	0.48	18.40	62.74	15.82	0.45	19.20	65.47	16.51
1/3rd rated power	8 ohms/ch	1.10	20.26	69.09	17.42	0.91	20.12	68.61	17.30	0.61	21.20	72.29	18.23	0.57	21.70	74.00	18.66
	4 ohm/ch	1.63	33.42	113.96	28.74	1.36	33.90	115.60	29.15	0.96	34.50	117.65	29.67	0.87	35.10	119.69	30.19
Full rated power	8 ohms/ch	2.80	51.20	174.59	44.03	2.35	52.34	178.48	45.01	1.43	55.70	189.94	47.90	1.35	63.30	215.85	54.44
	4 ohm/ch	4.34	116.30	396.58	100.02	4.07	120.60	411.25	103.72	2.56	122.60	418.07	105.44	2.36	127.30	434.09	109.48

CSA 1120Z																	
*1KHz sinewave, both channel driven		100 VAC/ 50 Hz				120 VAC/ 60 Hz				220 VAC/ 50 Hz				240 VAC/ 50 Hz			
Condition	Load	Line Current	Power Dissipated as Heat			Line Current	Power Dissipated as Heat			Line Current (Amps)	Power Dissipated as Heat			Line Current	Power Dissipated as Heat		
			Watts	BTU	Kcal/hr		Watts	BTU	Kcal/hr		Watts	BTU	Kcal/hr		Watts	BTU	Kcal/hr
Idle (Sleep mode)			0.36	1.23	0.31		0.39	1.33	0.34		0.74	2.52	0.64		0.82	2.80	0.71
Idle (Awake)			7.49	25.54	6.44		7.82	26.67	6.73		11.05	37.68	9.50		11.46	39.08	9.86
1/8th rated power	8 ohms/ch	0.55	11.90	40.58	10.23	0.46	12.04	41.06	10.35	0.35	13.70	46.72	11.78	0.34	14.00	47.74	12.04
	4 ohm/ch	0.56	13.97	47.64	12.01	0.49	14.20	48.42	12.21	0.36	14.70	50.13	12.64	0.35	15.30	52.17	13.16
1/3rd rated power	8 ohms/ch	1.09	19.26	65.68	16.56	0.89	19.28	65.74	16.58	0.63	20.20	68.88	17.37	0.58	21.40	72.97	18.40
	4 ohm/ch	1.12	25.44	86.75	21.88	0.97	25.80	87.98	22.19	0.70	26.20	89.34	22.53	0.64	27.50	93.78	23.65
Full rated power	8 ohms/ch	2.36	46.50	158.57	39.99	2.36	48.10	164.02	41.37	1.48	48.70	166.07	41.88	1.35	49.60	169.14	42.66
	4 ohm/ch	3.02	67.80	231.20	58.31	2.84	71.00	242.11	61.06	1.76	73.20	249.61	62.95	1.57	74.70	254.73	64.24

CSA 180Z																	
*1KHz sinewave, both channel driven		100 VAC/ 50 Hz				120 VAC/ 60 Hz				220 VAC/ 50 Hz				240 VAC/ 50 Hz			
Condition	Load	Line Current	Power Dissipated as Heat			Line Current	Power Dissipated as Heat			Line Current (Amps)	Power Dissipated as Heat			Line Current	Power Dissipated as Heat		
			Watts	BTU	Kcal/hr		Watts	BTU	Kcal/hr		Watts	BTU	Kcal/hr		Watts	BTU	Kcal/hr
Idle (Sleep mode)			0.36	1.23	0.31		0.39	1.33	0.34		0.71	2.42	0.61		0.83	2.83	0.71
Idle (Awake)			6.97	23.77	5.99		7.19	24.52	6.18		11.21	38.23	9.64		11.65	39.73	10.02
1/8th rated power	8 ohms/ch	0.42	11.16	38.06	9.60	0.40	11.70	39.90	10.06	0.30	12.30	41.94	10.58	0.28	12.50	42.63	10.75
	4 ohm/ch	0.61	13.81	47.09	11.88	0.50	13.87	47.30	11.93	0.36	14.20	48.42	12.21	0.35	14.70	50.13	12.64
1/3rd rated power	8 ohms/ch	0.81	16.69	56.91	14.35	0.76	17.60	60.02	15.14	0.47	18.10	61.72	15.57	0.45	18.50	63.09	15.91
	4 ohm/ch	1.24	24.72	84.30	21.26	1.01	24.90	84.91	21.41	0.62	25.40	86.61	21.84	0.59	25.90	88.32	22.27
Full rated power	8 ohms/ch	2.03	34.50	117.65	29.67	1.82	36.65	124.98	31.52	1.12	38.30	130.60	32.94	1.00	42.20	143.90	36.29
	4 ohm/ch	3.00	67.20	229.15	57.79	2.79	70.40	240.06	60.54	1.67	72.10	245.86	62.01	1.52	73.50	250.64	63.21

CSA 140Z																	
*1KHz sinewave, both channel driven		100 VAC/ 50 Hz				120 VAC/ 60 Hz				220 VAC/ 50 Hz				240 VAC/ 50 Hz			
Condition	Load	Line Current	Power Dissipated as Heat			Line Current	Power Dissipated as Heat			Line Current (Amps)	Power Dissipated as Heat			Line Current	Power Dissipated as Heat		
			Watts	BTU	Kcal/hr		Watts	BTU	Kcal/hr		Watts	BTU	Kcal/hr		Watts	BTU	Kcal/hr
Idle (Sleep mode)			0.36	1.23	0.31		0.39	1.33	0.34		0.72	2.46	0.62		0.84	2.86	0.72
Idle (Awake)			8.34	28.44	7.17		8.84	30.14	7.60		11.26	38.40	9.68		11.72	39.97	10.08
1/8th rated power	8 ohms/ch	0.39	10.00	34.10	8.60	0.33	10.46	35.67	9.00	0.27	11.20	38.19	9.63	0.21	12.10	41.26	10.41
	4 ohm/ch	0.47	10.92	37.24	9.39	0.44	13.75	46.89	11.83	0.32	14.00	47.74	12.04	0.27	14.20	48.42	12.21
1/3rd rated power	8 ohms/ch	0.68	14.15	48.25	12.17	0.56	14.68	50.06	12.62	0.33	16.20	55.24	13.93	0.30	17.50	59.68	15.05
	4 ohm/ch	1.01	22.04	75.16	18.95	0.89	22.97	78.33	19.75	0.57	24.80	84.57	21.33	0.51	25.00	85.25	21.50
Full rated power	8 ohms/ch	1.54	29.47	100.49	25.34	1.30	32.70	111.51	28.12	0.93	36.82	125.56	31.67	0.87	38.70	131.97	33.28
	4 ohm/ch	2.68	64.50	219.95	55.47	2.25	65.70	224.04	56.50	1.42	68.30	232.90	58.74	1.35	69.50	237.00	59.77