

AC Power Draw and Thermal Dissipation

AC Power Draw and Thermal Dissipation:

Pink noise 12dB crest factor, bandwidth limited 22Hz to 22kHz.

Typical line impedance used.

Data based on all channels driven.

DCI 2300 - Bridge									
		120 V~ 60 Hz				230 V~ 50 Hz			
Condition	Load	Line Current (amps)	Power Dissipated as Heat			Line Current (amps)	Power Dissipated as Heat		
			watts	BTU	kcal/hr		watts	BTU	kcal/hr
At Idle Awake	N/A	0.6	70	239	60	0.4	70	240	60
1/8 Power Pink Noise Typical of program material just at clip	4 ohms	1.0	80	273	69	0.6	83	283	71
	8 ohms	1.4	86	294	74	0.8	88	300	76
	16 ohms	1.4	80	274	69	0.8	84	287	72
	140V (32.67 ohms)	1.3	78	265	67	0.8	80	273	69
	200V (66.67 ohms)	1.3	78	267	67	0.8	80	274	69
1/3 Power Pink Noise Typical of program material at extreme clip	4 ohms	1.8	107	364	92	1.0	102	348	88
	8 ohms	2.8	126	430	108	1.5	117	400	101
	16 ohms	2.7	108	367	93	1.4	101	345	87
	70V (32.67 ohms)	2.6	101	345	87	1.4	95	323	81
	100V (66.67 ohms)	2.6	99	338	85	1.4	94	321	81

DCI 2300 - Dual									
		120 V~ 60 Hz				230 V~ 50 Hz			
Condition	Load	Line Current (amps)	Power Dissipated as Heat			Line Current (amps)	Power Dissipated as Heat		
			watts	BTU	kcal/hr		watts	BTU	kcal/hr
At Idle Awake	N/A	0.6	70	238	60	0.4	70	238	60
1/8 Power Pink Noise Typical of program material just at clip	2 ohms	1.0	77	262	66	0.6	79	269	68
	4 ohms	1.4	84	287	72	0.8	84	288	73
	8 ohms	1.4	79	271	68	0.8	81	277	70
	70V (16.33 ohms)	1.3	79	268	68	0.8	80	273	69
	100V (33.33 ohms)	1.4	81	275	69	0.8	81	277	70
1/3 Power Pink Noise Typical of program material at extreme clip	2 ohms	1.8	99	338	85	1.0	96	329	83
	4 ohms	2.9	118	403	102	1.5	111	380	96
	8 ohms	2.6	102	347	87	1.4	96	327	83
	70V (16.33 ohms)	2.8	104	356	90	1.3	93	317	80
	100V (33.33 ohms)	2.6	105	358	90	1.4	98	336	85

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Condition	Load	Line Current (amps)	Power Dissipated as Heat			Line Current (amps)	Power Dissipated as Heat		
			watts	BTU	kcal/hr		watts	BTU	kcal/hr
At Idle Awake	N/A	0.6	70	239	60	0.4	73	249	63
1/8 Power Pink Noise Typical of program material just at clip	2 ohms	1.5	93	318	80	0.8	97	330	83
	4 ohms	2.2	109	372	94	1.2	104	355	89
	8 ohms	2.1	101	345	87	1.1	94	320	81
	70V (16.33 ohms)	2.1	98	334	84	1.1	92	313	79
	100V (33.33 ohms)	2.1	92	316	80	1.1	90	308	78
1/3 Power Pink Noise Typical of program material at extreme clip	2 ohms	2.9	143	487	123	1.5	138	472	119
	4 ohms	4.8	174	592	149	2.6	171	585	147
	8 ohms	4.5	143	487	123	2.4	138	470	119
	70V (16.33 ohms)	4.5	143	488	123	2.4	135	462	116
	100V (33.33 ohms)	4.5	130	442	112	2.3	125	425	107

DCI 2600 - Dual									
		120 V~ 60 Hz				230 V~ 50 Hz			
Condition	Load	Line Current (amps)	Power Dissipated as Heat			Line Current (amps)	Power Dissipated as Heat		
			watts	BTU	kcal/hr		watts	BTU	kcal/hr
At Idle Awake	N/A	0.6	72	246	62	0.4	70	240	60
1/8 Power Pink Noise Typical of program material just at clip	2 ohms	1.5	93	318	80	0.8	91	310	78
	4 ohms	2.2	106	362	91	1.2	99	339	85
	8 ohms	2.1	95	324	82	1.1	90	307	77
	70V (16.33 ohms)	2.1	94	320	81	1.1	89	304	77
	100V (33.33 ohms)	2.1	93	318	80	1.1	87	297	75
1/3 Power Pink Noise Typical of program material at extreme clip	2 ohms	2.9	133	454	114	1.5	126	430	108
	4 ohms	4.7	156	533	134	2.4	147	502	126
	8 ohms	4.5	131	448	113	2.4	125	427	108
	70V (16.33 ohms)	4.5	132	450	113	2.4	123	421	106
	100V (33.33 ohms)	4.5	127	435	110	2.4	121	413	104

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DCI 4300 - Bridge									
		120 V~ 60 Hz				230 V~ 50 Hz			
Condition	Load	Line Current (amps)	Power Dissipated as Heat			Line Current (amps)	Power Dissipated as Heat		
			watts	BTU	kcal/hr		watts	BTU	kcal/hr
At Idle Awake	N/A	1.0	119	405	102	0.6	121	414	104
1/8 Power Pink Noise Typical of program material just at clip	4 ohms	1.0	221	755	190	1.0	139	475	120
	8 ohms	1.4	298	1018	257	1.4	153	523	132
	16 ohms	1.4	300	1023	258	1.4	145	495	125
	140V (32.67 ohms)	1.3	289	987	249	1.3	137	467	118
	200V (66.67 ohms)	1.3	291	994	250	1.3	141	480	121
1/3 Power Pink Noise Typical of program material at extreme clip	4 ohms	3.5	199	681	172	1.8	190	649	164
	8 ohms	5.3	225	768	194	2.8	222	759	191
	16 ohms	5.1	201	685	173	2.7	190	647	163
	140V (32.67 ohms)	4.9	179	612	154	2.5	170	582	147
	200V (66.67 ohms)	5.0	185	633	160	2.5	174	594	150

DCI 4300 - Dual									
		120 V~ 60 Hz				230 V~ 50 Hz			
Condition	Load	Line Current (amps)	Power Dissipated as Heat			Line Current (amps)	Power Dissipated as Heat		
			watts	BTU	kcal/hr		watts	BTU	kcal/hr
At Idle Awake	N/A	1.0	118	401	101	0.6	119	408	103
1/8 Power Pink Noise Typical of program material just at clip	2 ohms	1.9	141	480	121	1.0	136	465	117
	4 ohms	2.6	156	532	134	1.4	149	507	128
	8 ohms	2.6	149	509	128	1.4	142	484	122
	70V (16.33 ohms)	2.5	143	489	123	1.3	139	475	120
	100V (33.33 ohms)	2.5	149	507	128	1.3	142	485	122
1/3 Power Pink Noise Typical of program material at extreme clip	2 ohms	3.4	194	661	167	1.8	184	629	159
	4 ohms	5.5	219	749	189	2.9	211	719	181
	8 ohms	5.0	191	653	165	2.6	181	618	156
	70V (16.33 ohms)	4.9	183	624	157	2.6	177	604	152
	100V (33.33 ohms)	5.0	197	673	170	2.6	191	652	164

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DCI 4600 - Bridge									
		120 V~ 60 Hz				230 V~ 50 Hz			
Condition	Load	Line Current (amps)	Power Dissipated as Heat			Line Current (amps)	Power Dissipated as Heat		
			watts	BTU	kcal/hr		watts	BTU	kcal/hr
At Idle Awake	N/A	1.0	117	400	101	0.6	118	404	102
1/8 Power Pink Noise Typical of program material just at clip	4 ohms	2.9	185	631	159	1.5	173	592	149
	8 ohms	4.4	207	708	178	2.2	196	670	169
	16 ohms	4.0	183	625	158	2.1	175	596	150
	140V (16 ohms)	3.9	179	609	154	2.1	173	592	149
	200V (33.33 ohms)	3.9	167	571	144	2.1	163	556	140
1/3 Power Pink Noise Typical of program material at extreme clip	4 ohms	5.7	278	949	239	3.0	269	918	231
	8 ohms	9.6	344	1174	296	4.9	322	1099	277
	16 ohms	9.0	292	996	251	4.6	235	802	202
	140V (16 ohms)	9.0	289	988	249	4.6	259	884	223
	200V (33.33 ohms)	8.8	260	886	223	4.5	231	790	199

DCI 4600 - Dual									
		120 V~ 60 Hz				230 V~ 50 Hz			
Condition	Load	Line Current (amps)	Power Dissipated as Heat			Line Current (amps)	Power Dissipated as Heat		
			watts	BTU	kcal/hr		watts	BTU	kcal/hr
At Idle Awake	N/A	1.0	118	402	101	0.6	120	410	103
1/8 Power Pink Noise Typical of program material just at clip	2 ohms	3.0	182	622	157	1.5	168	575	145
	4 ohms	4.3	200	682	172	2.2	191	652	164
	8 ohms	4.0	174	595	150	2.2	168	573	144
	70V (16.33 ohms)	4.0	175	596	150	2.1	168	573	144
	100V (33.33 ohms)	4.0	169	578	146	2.1	162	554	140
1/3 Power Pink Noise Typical of program material at extreme clip	2 ohms	5.6	264	902	227	2.9	249	849	214
	4 ohms	9.4	316	1079	272	4.8	287	980	247
	8 ohms	8.9	266	907	229	4.6	240	820	207
	70V (16.33 ohms)	8.8	268	916	231	4.6	240	820	207
	100V (33.33 ohms)	8.8	256	872	220	4.6	231	789	199

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DCI 8300 - Bridge									
		120 V~ 60 Hz				230 V~ 50 Hz			
Condition	Load	Line Current (amps)	Power Dissipated as Heat			Line Current (amps)	Power Dissipated as Heat		
			watts	BTU	kcal/hr		watts	BTU	kcal/hr
At Idle Awake	N/A	1.9	221	755	190	1.0	216	739	186
1/8 Power Pink Noise Typical of program material just at clip	4 ohms	3.5	273	932	235	1.9	248	847	213
	8 ohms	4.9	292	998	252	2.6	276	943	238
	16 ohms	4.8	267	910	229	2.6	259	885	223
	140V (32.67 ohms)	4.7	262	893	225	2.5	242	824	208
	200V (66.67 ohms)	4.6	254	867	219	2.5	252	858	216
1/3 Power Pink Noise Typical of program material at extreme clip	2 ohms	6.7	381	1300	328	3.4	341	1165	294
	4 ohms	10.4	436	1488	375	5.4	401	1369	345
	8 ohms	9.8	374	1277	322	5.1	337	1152	290
	70V (16.33 ohms)	9.4	335	1142	288	4.9	291	995	251
	100V (33.33 ohms)	9.6	347	1185	299	4.7	297	1013	255

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		120 V~ 60 Hz				230 V~ 50 Hz			
Condition	Load	Line Current (amps)	Power Dissipated as Heat			Line Current (amps)	Power Dissipated as Heat		
			watts	BTU	kcal/hr		watts	BTU	kcal/hr
At Idle Awake	N/A	1.8	214	731	184	1.0	216	738	186
1/8 Power Pink Noise Typical of program material just at clip	2 ohms	3.3	223	762	192	1.9	243	831	210
	4 ohms	5.0	288	982	248	2.7	279	951	240
	8 ohms	4.9	270	920	232	2.5	263	896	226
	70V (16.33 ohms)	4.8	267	911	230	2.5	262	895	226
	100V (33.33 ohms)	4.8	274	936	236	2.6	272	927	234
1/3 Power Pink Noise Typical of program material at extreme clip	2 ohms	5.7	263	897	226	3.4	331	1131	285
	4 ohms	10.3	417	1423	359	5.3	392	1337	337
	8 ohms	10.0	372	1269	320	5.0	341	1165	294
	70V (16.33 ohms)	9.9	366	1250	315	5.0	346	1180	297
	100V (33.33 ohms)	10.0	395	1348	340	5.1	361	1233	311