









Current Rating of Rectangular Aluminum Bus Bar Arrangements

Amperes for 6101-T61 Alloy 57% IACS Conductivity

Sizes (Inches)	1 BAR 		2 BARS 		3 BARS 		4 BARS 	
	DC	60 HZ AC	DC	60 HZ AC	DC	60 HZ AC	DC	60 HZ AC
1/4 x 1	308	308	607	601	605	887	1203	1168
1 1/2	430	429	833	817	1235	1194	1637	1561
2	549	545	1051	1021	1552	1480	2053	1915
3	780	768	1472	1410	2162	2000	2851	2530
4	1005	980	1878	1760	2749	2462	3619	3081
5	1225	1184	2275	2092	3321	2905	4365	3625
6	1443	1381	2665	2413	3881	3338	5095	4146
7	1870	1760	3427	3034	4974	4183	6517	5152
3/8 x 2	691	678	1340	1278	1989	1831	2638	2332
3	974	941	1857	1709	2739	2384	3620	2946
4	1249	1191	2356	2099	3460	2893	4563	3574
5	1519	1429	2842	2483	4162	3387	5479	4178
6	1785	1657	3320	2847	4848	3857	6375	4765
8	2308	2098	4253	3569	6188	4774	8119	5875
10	2822	2534	5165	4289	7493	5632	9817	6941
1/2 x 3	1145	1074	2205	1991	3265	2742	4324	3297
4	1462	1369	2782	2416	4100	3264	5417	3940
5	1774	1634	3345	2828	4912	3778	6477	4580
6	2081	1892	3897	3230	5706	4284	7514	5210
8	2685	2393	4975	4014	7255	5276	9531	6246
10	3278	2880	6209	4779	8763	6256	1149	7579

Sizes (Inches)	1 BAR 		2 BARS 		3 BARS 		4 BARS 	
	DC	60 HZ AC	DC	60 HZ AC	DC	60 HZ AC	DC	60 HZ AC
1/4 x 1	300	300	585	580	775	765	905	880
1 1/2	420	415	800	785	1060	1020	1240	1180
2	535	530	1010	980	1340	1280	1560	1460
3	750	735	1380	1310	1850	1700	2180	1940
4	955	930	1720	1600	2300	2050	2740	2330
5	1160	1120	2000	1830	2670	2330	3160	2610
6	1320	1270	2220	2010	2970	2540	3440	2800
8	1620	1520	2640	2320	3410	2840	3900	3080
3/8 x 2	670	660	1230	1170	1620	1490	1920	1700
3	935	905	1680	1550	2250	1960	2730	2220
4	1190	1130	2080	1860	2800	2340	3360	2630
5	1420	1340	2420	2110	3250	2650	3850	2940
6	1630	1520	2710	2330	3680	2940	4280	3200
8	2000	1820	3240	2700	4210	3270	4820	3490
1/2 x 3	1100	1050	1870	1650	2560	2080	3070	2340
4	1390	1300	2290	1960	3150	2470	3800	2750
5	1650	1520	2680	2240	3630	2780	4370	3090
6	1890	1710	3050	2490	4060	3050	4800	3330
8	2310	2050	3640	2900	4790	3490	5510	3720

Notes:

- Ratings based on 30°C rise over 40°C ambient in still but confined air (e=0.35), corresponding to usual indoor temperature. Vertical bar ampacity based on work by House and Tuttle. Horizontal bar ampacity from industry sources.
- Space between bars is assumed equal bar thickness.
- For ac phase spacings less than 18 inches an allowance for proximity effect must be made.
- Ratings are based on horizontal mounting, in air with no attachments. For dc ratings of other alloys, multiply by: For 6101-T61, 0.982; 6101-T63, 0.992; 6101-T64, 1.02; 6101-T65, 0.996. For 60Hz, the use of these multipliers is conservative.