

COPPER BUSBAR RATING



<http://www.australwright.com.au>

NOTES:

1. Ratings apply for single bars on edge operating in a 40°C ambient temperature with 50°C temperature rise.
2. A.C. Ratings are for frequencies up to 60 Hz.
3. "Free Air" Conditions assume some air movement other than convection currents, and may be applicable for outside installations. "Still Air" and "Free" Air Conditions both assume no air-movement.
4. Source data: www.csis.org.uk

Busbar Size	I-Sectional area	Weight	Approx D.C. Resistance 20°C	Approx. DC rating (I)		Approx AC rating		Moment of Inertia		Modulus of Section Z	
				Still Air (I)	Free Air (I)	Still Air	Free Air	Edge-wise	Flat	Edge-wise	Flat
mm	mm ²	kg/m	mΩ/m	A	A	A	A	mm ⁴	mm ⁴	mm ³	mm ³
10 x 1.60	16	0.143	10.77	105	115	105	115	133.3	3.413	26.66	4.266
12.5 x 1.60	20	0.179	8.62	125	135	125	135	260.4	4.266	41.66	5.333
16 x 1.60	25.6	0.229	6.73	155	170	155	170	546.1	5.461	66.26	6.826
20 x 1.60	32	0.286	5.38	185	205	185	205	1,005	6.826	104.6	8.533
25 x 1.60	40	0.357	4.31	225	250	225	250	2,063	8.533	166.6	10.67
30 x 1.60	48	0.436	3.59	265	290	265	290	3,600	10.34	240	12.8
40 x 2.00	20	0.179	8.62	115	130	115	130	1,666	6.666	33.33	6.666
12.5 x 2.00	25	0.223	6.69	140	155	140	155	325.5	8.333	52.06	8.333
16 x 2.00	32	0.286	5.38	175	190	175	190	682.6	10.66	85.33	10.66
20 x 2.00	40	0.357	4.31	210	230	210	230	1,333	13.33	133.3	13.33
25 x 2.00	50	0.446	3.44	255	280	255	280	2,604	16.66	266.3	16.66
30 x 2.00	60	0.536	2.87	295	330	295	330	4,500	30	300	20
40 x 2.00	80	0.714	2.15	360	420	360	420	10,660	26.66	533	26.66
50 x 2.50	25	0.223	6.69	130	145	130	145	206.3	13.02	41.66	10.42
12.5 x 2.50	31.25	0.279	5.57	160	175	160	175	406.9	16.27	65.6	13.02
16 x 2.50	40	0.357	4.31	195	215	195	215	853.3	20.63	104.7	16.66
20 x 2.50	50	0.446	3.44	235	260	235	260	1,666	26.04	166.6	20.63
25 x 2.50	62.5	0.558	2.75	285	315	285	315	3,255	32.55	260.4	26.04
30 x 2.50	75	0.67	2.29	330	370	330	370	5,635	39.06	375	31.25
40 x 2.50	100	0.893	1.72	425	475	425	475	13,330	52.08	666.5	41.66
50 x 2.50	125	1.115	1.37	520	575	520	575	26,040	65.1	1,041	52.08
60 x 2.50	150	1.339	1.14	605	675	605	675	45,000	78.13	1,500	62.5
80 x 2.75	31.5	0.281	5.47	150	170	150	170	262.5	26.05	520.5	16.54
12.5 x 2.75	39.4	0.352	4.37	180	200	180	200	512.7	32.56	82.68	20.67
20 x 3.0	60	0.536	2.87	260	290	260	290	3,000	45	300	30
25 x 3.0	75	0.67	2.29	315	350	314	350	3,906	56.25	312.4	37.5
30 x 3.0	90	0.803	1.91	365	405	365	405	6,750	67.5	450	45
40 x 3.0	120	1.071	1.43	470	520	470	520	16,000	90	600	60
50 x 3.0	150	1.339	1.14	570	635	570	635	31,250	112.5	1,250	75
60 x 3.0	180	1.607	0.957	665	740	665	740	54,000	135	1,800	90
80 x 3.0	240	2.142	0.718	860	965	860	965	128 x 103	180	3,200	120
10 x 4.0	40	0.357	4.31	175	195	175	195	333.3	53.33	66.66	24.67
12.5 x 4.0	50	0.446	3.44	210	230	210	230	651	66.67	104.2	33.34
16 x 4.0	64	0.571	2.69	255	285	255	285	1,365	85.33	170.6	42.67
20 x 4.0	80	0.714	2.15	305	340	305	340	2,666	106.7	266.6	53.35
25 x 4.0	100	0.893	1.72	365	410	365	410	5,208	133.3	416.6	66.65
30 x 4.0	120	1.071	1.43	430	475	430	475	8,999	160	599.6	80
40 x 4.0	160	1.428	1.07	545	610	540	605	21,330	213.3	1,066.50	106.7
50 x 4.0	200	1.786	0.862	665	740	660	735	41,660	266.7	1,666	133.4
60 x 4.0	240	2.142	0.718	775	860	770	855	72,000	320	2,400	160
80 x 4.0	300	2.856	0.538	995	1,120	980	1,105	130 x 103	426.7	4,266	213.4
100 x 4.0	400	3.571	0.431	1,210	1,365	1,185	1,340	333 x 103	533.3	6,666	266.7
10 x 5.0	50	0.446	3.44	200	225	200	225	416.7	104.2	80.34	41.66
12.5 x 5.0	62.5	0.558	2.75	240	265	240	265	813.4	130.2	130.1	52.08
16 x 5.0	80	0.714	2.15	290	325	290	325	1,707	166.7	213.4	66.66
20 x 5.0	100	0.893	1.72	345	385	345	385	3,333	206	303.3	83.2
25 x 5.0	125	1.116	1.37	415	465	415	465	6,560	260.4	520.4	104.2
30 x 5.0	150	1.339	1.14	495	540	490	540	11,250	312.5	750	135
40 x 5.0	200	1.786	0.862	615	685	610	680	26,670	416.7	1,334	166.7
50 x 5.0	250	2.232	0.689	745	820	740	820	52,080	520.8	2,083	208.3
60 x 5.0	300	2.678	0.574	870	970	865	960	90,000	625	3,000	250

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Xiaolong Qi



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web the automatic operation of street light controlling systems help to reduce the energy consumption as compared to the manually operated street light controlling operations this is because there is a delay in the earlier switching operations both in morning during sunrise and evening during sunset

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web jan 12 2022 what sensors do smart street lights use the sensors used in a street light project using arduino are ir sensors or ultrasonic sensors other components are arduino uno two ir sensors light depending resistor ldr two 220Ω resistors one 1 kΩ resistor two leds what are the advantages of smart street lights the smart street