

COPPER BUSBAR RATING



**Austral
Wright Metals**

<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 enclosure.
4. Source data: www.csis.org.uk

Busbar Size	X-Sectional area	Weight	Approx D.C. Resistance 20°C	Approx D.C. rating (I)		Approx A.C. 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	0.140	10.77	105	115	105	115	133.3	341.3	26.66	4266
12.5 x 1.60	20	0.179	8.62	125	135	125	135	260.4	4266	41.66	5333
16 x 1.60	25.6	0.229	6.73	155	170	155	170	546.1	5461	66.26	6826
20 x 1.60	32	0.286	5.38	185	205	185	205	1065	6826	106.6	8533
25 x 1.60	40	0.357	4.31	225	250	225	250	2063	8533	166.6	1067
30 x 1.60	48	0.436	3.59	265	290	265	290	3600	1034	240	138
10 x 2.00	20	0.179	8.62	115	130	115	130	166.6	6666	33.32	6666
12.5 x 2.00	25	0.223	6.89	140	155	140	155	325.5	8333	52.08	8333
16 x 2.00	32	0.286	5.38	175	190	175	190	682.6	1066	85.33	1066
20 x 2.00	40	0.357	4.31	210	230	210	230	1333	1333	133.3	1333
25 x 2.00	50	0.446	3.44	255	280	255	280	2604	1666	206.3	1666
30 x 2.00	60	0.536	2.87	295	330	295	330	4500	30	300	30
40 x 2.00	80	0.714	2.15	380	420	380	420	10660	2666	533	2666
10 x 2.50	25	0.223	6.89	130	145	130	145	206.3	1302	41.66	1042
12.5 x 2.50	31.25	0.279	5.57	160	175	160	175	406.9	1637	65.6	1302
16 x 2.50	40	0.357	4.31	195	215	195	215	653.3	2063	106.7	1666
20 x 2.50	50	0.446	3.44	235	260	235	260	1666	2604	166.6	2063
25 x 2.50	62.5	0.558	2.75	285	315	285	315	3255	3255	260.4	260.4
30 x 2.50	75	0.67	2.29	330	370	330	370	5405	3906	375	3125
40 x 2.50	100	0.893	1.72	425	475	425	475	13330	5208	666.5	4166
50 x 2.50	125	1.115	1.37	520	575	520	575	26040	651	1041	5208
60 x 2.50	150	1.336	1.14	605	675	605	675	45000	7813	1500	625
10 x 2.75	31.5	0.281	547	150	170	150	170	262.5	2605	520.5	1654
12.5 x 2.75	39.4	0.352	437	180	200	180	200	512.7	3256	82.68	2067
16 x 3.0	48	0.536	287	260	290	260	290	3600	45	300	30
25 x 3.0	75	0.87	209	315	350	314	350	3906	5625	312.4	375
30 x 3.0	90	0.803	191	365	405	365	405	6750	675	450	45
40 x 3.0	120	1.071	143	470	520	470	520	16000	90	800	60
50 x 3.0	150	1.336	114	570	635	570	635	31250	112.5	1250	75
60 x 3.0	180	1.607	95.7	665	740	665	740	54000	135	1600	90
80 x 3.0	240	2.142	71.8	860	955	860	955	128 x 103	180	3200	120
10 x 4.0	40	0.357	431	175	195	175	195	333.3	53.33	66.66	2667
12.5 x 4.0	50	0.446	344	210	230	210	230	651	6667	104.2	3334
16 x 4.0	64	0.571	269	255	285	255	285	1365	85.33	170.6	4267
20 x 4.0	80	0.714	215	305	340	305	340	2666	106.7	266.6	5335
25 x 4.0	100	0.893	172	365	410	365	410	5208	133.3	416.6	6665
30 x 4.0	120	1.071	143	430	475	430	475	8999	1600	599.6	80
40 x 4.0	160	1.428	107	545	610	540	605	21330	213.3	1066.50	106.7
50 x 4.0	200	1.786	86.2	665	740	660	735	41660	266.7	1666	133.4
60 x 4.0	240	2.142	71.8	775	860	770	855	72000	320	2400	160
80 x 4.0	320	2.856	53.8	995	1120	980	1105	170 x 103	426.7	4268	213.4
100 x 4.0	400	3.571	43.1	1210	1365	1185	1340	330 x 103	533.3	6566	266.7
10 x 5.0	50	0.446	344	200	225	200	225	416.7	104.2	80.34	4166
12.5 x 5.0	62.5	0.558	275	240	265	240	265	813.4	130.2	130.1	5208
16 x 5.0	80	0.714	215	280	325	280	325	166.7	213.4	66.66	2667
20 x 5.0	100	0.893	172	345	385	345	385	330.3	206	303.8	83.2
25 x 5.0	125	1.115	137	415	465	415	465	6500	260.4	520.8	104.2
30 x 5.0	150	1.336	114	495	540	490	540	11250	312.5	750	135
40 x 5.0	200	1.786	86.2	615	685	610	680	26670	416.7	1334	166.7
50 x 5.0	250	2.232	68.9	745	820	740	820	52080	520.8	2063	206.3
60 x 5.0	300	2.678	57.4	870	970	865	960	90000	625	3000	250

Busbar Ratings Guide Table

S Marginson

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Brendan Dervan, 2025-09-01 This essential guidebook for electrical engineers and contractors provides a clear practical companion to the latest wiring requirements fully covering Amendment A1 to the Standard as published in September 2024 Structured to follow the Standard on a chapter by chapter basis it addresses all nine chapters including all 21 specialist locations in Chapter 7 with the new Part 718 and the new Chapter 8 on Energy Efficiency With a strong focus on the design aspects of electrical installations the book simplifies the narrative of the Standard demystifying the rules and turning complex requirements into accessible guidance Its 60 individual units use simplified diagrams tables and plain language explanations to make key concepts easy to understand supported by 170 illustrations over 100 tables over 90 images and a range of worked examples that help readers apply the requirements in real world situations **Industrial Power**

Engineering Handbook KC Agrawal, 2001-10-08 Never before has so much ground been covered in a single volume reference source This five part work is sure to be of great value to students technicians and practicing engineers as well as equipment designers and manufacturers and should become their one stop shop for all information needs in this subject area This book will be of interest to those working with Static Drives Static Controls of Electric Motors Speed Control of Electric Motors Soft Starting Fluid Coupling Wind Mills Generators Painting procedures Effluent treatment Electrostatic Painting Liquid Painting Instrument Transformers Core Balanced CTs CTs VTs Current Transformers Voltage Transformers Earthquake engineering Seismic testing Seismic effects Cabling Circuit Breakers Switching Surges Insulation Coordination Surge Protection Lightning Over voltages Ground Fault Protections Earthing Earth fault Protection Shunt Capacitors Reactive control Bus Systems Bus Duct Rising mains A 5 part guide to all aspects of electrical power engineering Uniquely comprehensive coverage of all subjects associated with power engineering A one stop reference resource for power drives

their controls power transfer and distribution reactive controls protection including over voltage and surge protection maintenance and testing electrical engineering **Electrical Installation Guide** ,2008 **Electrical Times** ,1968

Electrical Installations Handbook Günter G. Seip,2000-06-28 The Third Edition of this classic reference is designed to provide authoritative guidance for engineers and technicians who have responsibility for planning designing building and operating electrical installation systems The extensively revised scope includes a comprehensive overview of conventional and state of the art installation equipment and its current usage Special emphasis is placed on equipment with communication capability and the way in which this equipment is networked to the instabus EIB bus system for a wide range of applications in residential and commercial buildings The construction dimensioning and protection of electrical distribution systems are treated taking into account the latest developments in systems engineering In view of the electricity market deregulation and globalization and the associated standardization initiatives that are underway reference has been made where appropriate to international European and German norms regulations and standards This single volume edition is extensively illustrated throughout and includes a broad range of example applications of electrical installation systems

Engineer's Year-book of Formulae, Rules, Tables, Data & Memoranda ,1986 **Marine Electrical Practice** George Oliphant Watson,1990 A standard work on the installation maintenance and operation of marine electrical equipment since its first publication in 1957 as a guide for engineers preparing for competency exams and a reference for seagoing engineers and electricians Changes since the 5th edition 1981 include new or expanded discussions of programmable electronic systems protection and discrimination impressed cathodic protection and other recent technological advances and changes in standards Annotation copyrighted by Book News Inc Portland OR **Proceedings** ,1998 Handbook of Practical Electrical Design Joseph F. McPartland,Brian J. McPartland,1999 The National Electrical Code is being updated for 1999 and this book is intended to allow electrical construction professionals to keep up with the new code Journeyman's Guide to the National Electrical Code, 1990 F. Marco Gotshaw,1991 The Electrical Review ,1979 **Network Protection & Automation Guide** ,2002 Low Fault Level Systems ,1984 **Electrical Review** ,1917 The Brown Boveri Review ,1986 **Power Capacitor Handbook** T. Longland,T. W. Hunt,W. A. Brecknell,1984 **Conference Publication** ,1976 **Handbook of Product Design for Manufacturing** James G. Bralla,1986 A Practical Guide to Low Cost Production offers a detailed overview of common manufacturing processes for the designer or manufacturing engineer Covers a full range of processes from metal stamping forging casting molding thermoforming and more Specifies optimum material grades and dimensional tolerance data for each production process **Electrical Blue Book** ,1921

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