

WORLD WIDE ELECTRICAL POWER STANDARDS (A - C)
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Country	Frequency	System	1 Phase	3 Phase
Afghanistan	50 Hz	wye	220	380
Algeria	50 Hz	wye	127	220
	50 Hz	wye	220	380
American Samoa	60 Hz	delta	120	240
	50 Hz	delta	240	480
Angola	50 Hz	wye	220	380
Antigua	60 Hz	wye	220	380
Argentina	50 Hz	wye	220	380
Austria	50 Hz	wye	220	380
Azores	50 Hz	wye	220	380
Bahamas	60 Hz	wye	120	208
	60 Hz	delta	120	240
Bahrain	50 Hz	wye	230	400
Bangladesh	50 Hz	wye	220	380
Barbados	50 Hz	wye	115	200
	50 Hz	delta	115	230
Belgium	50 Hz	wye	127	220
	50 Hz	wye	220	380
Belize	60 Hz	delta	110	220
	60 Hz	delta	220	440
Benin	50 Hz	wye	220	380
Bermuda	60 Hz	wye	120	208
	60 Hz	delta	120	240
Bolivia	50 Hz	delta	110	220
	50 Hz	delta	115	230
	50 Hz	wye	220	380
	50 Hz	wye	230	400
Botswana	50 Hz	wye	220	380
Brazil	60 Hz	delta	110	220
	60 Hz	wye	115	220
	60 Hz	delta	115	230
	60 Hz	wye	125	216
	60 Hz	wye	127	220
	60 Hz	wye	220	380
	50 Hz	delta	220	440
	60 Hz	wye	220	380
	50 Hz	delta	220	440
	60 Hz	wye	230	400
Bulgaria	50 Hz	wye	220	380
Burma	50 Hz	wye	230	400
Burundi	50 Hz	wye	220	380
Cambodia	50 Hz	wye	120	208
	50 Hz	wye	220	380
Cameroon	50 Hz	wye	127	220
	50 Hz	wye	220	380
	50 Hz	wye	230	400
Canada	60 Hz	delta	120	240
	60 Hz	wye		575
Canary Islands	50 Hz	wye	127	220

	50 Hz	wye	230	400
Cape Verde	50 Hz	wye	220	380
Cayman Islands	60 Hz	delta	120	240
Central African Republic	50 Hz	wye	220	380
Chad	50 Hz	wye	220	380
Channel Islands	50 Hz	wye	230	400
	50 Hz	wye	240	415
Chile	50 Hz	wye	220	380
China	50 Hz	wye	220	380
Colombia	60 hz	delta	110	220
	60 Hz	wye	120	208
	60 Hz	wye	220	380
Congo	50 Hz	wye	220	380
Costa Rica	50 Hz	delta	120	240
Cyprus	50 Hz	wye	240	415
Czech Republic	50 Hz	wye	220	380

WORLD WIDE ELECTRICAL POWER STANDARDS (D - K)
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Country	Frequency	System	1 Phase	3 Phase
Denmark	50 Hz	wye	220	380
Djibouti	50 Hz	wye	220	380
Dominica	50 Hz	wye	230	400
Dominican Republic	60 Hz	delta	110	220
Ecuador	60 Hz	wye	120	208
	60 Hz	delta	120	240
	60 Hz	delta	127	220
Egypt	50 Hz	wye	220	380
El Salvador	60 Hz	delta	115	230
England	50 Hz	wye	240	
	50 Hz		220	
Equatorial Guinea	50 Hz		220	
Ethiopia	50 Hz	wye	220	380
Faeroe Islands	50 Hz	wye	220	380
Fiji	50 Hz	wye	240	415
Finland	50 Hz	wye	220	380
France	50 Hz	wye	110	190
	50 Hz	delta	110	220
	50 Hz	wye	115	200
	50 Hz	wye	220	380
French Guiana	50 Hz	wye	220	380
Gabon	50 Hz	wye	220	380
Gambia	50 Hz	wye	220	380
Germany	50 Hz	wye	220	380
Ghana	50 Hz	wye	220	400
Gibraltar	50 Hz	wye	240	415
Greece	50 Hz	wye	220	380
Greenland	50 Hz	wye	220	380
Grenada	50 Hz	wye	230	400
Guadeloupe	50 Hz	wye	220	380
Guam	60 Hz	delta	120	240
	60 Hz	wye	120	208
Guatemala	60 Hz	delta	120	240
Guinea	50 Hz	wye	220	380
Guinea-Bissau	50 Hz	wye	110	220
Guyana	50 Hz	delta	110	220
	60 Hz	delta	110	220
Haiti	60 Hz	delta	110	220
	60 Hz	wye	220	208
Honduras	60 Hz	delta	110	220
Hong Kong	50 Hz	wye	200	346
Hungary	50 Hz	wye	220	380
Iceland	50 Hz	wye	220	380
India	50 Hz	wye	220	480
	50 Hz	wye	230	400

	50 Hz	wye	230	415
Indonesia	50 Hz	wye	127	220
	50 Hz	wye	220	380
Iran	50 Hz	wye	220	380
Iraq	50 Hz	wye	220	380
Isle of Man Douglas	50 Hz	wye	240	415
Israel	50 Hz	wye	230	400
Italy	50 Hz	wye	127	220
Ireland	50 Hz	wye	220	380
Ivory Coast	50 Hz	wye	220	380
Jamaica	50 Hz	wye	110	220
Japan	50 Hz	delta	100	200
	60 Hz	delta	100	200
Jerusalem	50 Hz	wye	220	380
Jordan	50 Hz	wye	220	380
Kenya	50 Hz	wye	240	415
Korea	60 Hz	delta	100	200
	60 Hz	delta	105	
	60 Hz	wye	220	380
Kuwait	50 Hz	wye	240	415

WORLD WIDE ELECTRICAL POWER STANDARDS (L - Z)
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Country	Frequency	System	1 Phase	3 Phase
Laos	50 Hz	wye	220	230
Lebanon	50 Hz	wye	110	190
	50 Hz	wye	220	380
Lesotho	50 Hz	wye	220	380
Liberia	60 Hz	wye	120	208
	60 Hz	delta	120	240
Libya	50 Hz	wye	127	220
	50 Hz	wye	230	400
Luxembourg	50 Hz	wye	120	208
	50 Hz	wye	220	380
Macao	50 Hz	wye	220	380
Madagascar	50 Hz	wye	127	220
	50 Hz	wye	220	380
Madeira	50 Hz	wye	220	380
Majorca Island	50 Hz	wye	127	220
	50 Hz	wye	220	380
Malawi	50 Hz	wye	230	400
Malaysia	50 Hz	wye	240	415
Maldives	50 Hz	wye	230	400
Mali	50 Hz	wye	220	380
Malta	50 Hz	wye	240	415
Martinique	50 Hz	wye	220	380
Mauritius	50 Hz	wye	230	400
Mexico	60 Hz	wye	127	220
Monaco	50 Hz	wye	127	220
	50 Hz	wye	220	380
Montserrat	60 Hz	wye	230	400
Morocco	50 Hz	wye	127	220
	50 Hz	wye	220	380
Mozambique	50 Hz	wye	220	380
Nepal	50 Hz	delta	220	440
Netherlands	50 Hz	wye	220	380
Netherlands Antilles	60 Hz	delta	115	
	60 Hz	wye	120	208
	50 Hz	wye	127	220
	50 Hz	wye	220	380
New Caledonia	50 hz	wye	220	380
New Zealand	50 hz	wye	230	400
Nicaragua	60 hz	delta	120	240
Niger	50 Hz	wye	220	380
Nigeria	50 Hz	wye	230	415
Northern Ireland	50 Hz	wye	220	380
	50 Hz	wye	230	400
Norway	50 Hz		230	230
Okinawa	60 Hz	delta	100	
	60 Hz	delta	120	

	Oman	50 hz	wye	240	415
	Pakistan	50 Hz	wye	220	380
		50 hz	wye	230	400
	Panama	60 Hz	delta	110	220
		60 Hz	delta	115	230
		60 Hz	wye	120	208
	Papua	50 Hz	wye	240	415
	Paraguay	50 Hz	wye	220	380
	Peru	60 Hz	delta	110	220
		50 Hz		220	220
	Philippines	60 Hz	delta	110	220
	Poland	50 Hz	wye	220	380
	Portugal	50 Hz	wye	220	380
	Puerto Rico	60 Hz	delta	120	240
	Qatar	50 Hz	wye	240	415
		50 Hz	wye	220	380
	Romania	50 Hz	wye	220	380
	Rwanda	50 Hz	wye	220	380
	St. Kitts and Nevis	60 Hz	wye	230	400
	St. Lucia	50 Hz	wye	240	416
	St. Vincent	50 Hz	wye	230	400
	Saudi Arabia	60 Hz	wye	127	220
		50 Hz	wye	220	400
	Scotland	50 Hz	wye	240	415
	Senegal	50 Hz	wye	127	220
	Seychelles	50 Hz		240	240
	Sierra Leone	50 Hz	wye	230	400
	Somalia	50 Hz	delta	110	220
		50 Hz	wye	220	380
		50 Hz	delta	220	440
	South Africa	50 Hz	wye	220	380
		50 Hz	wye	230	400
		50 Hz	wye	250	433
	Spain	50 Hz	wye	127	220
		50 Hz	wye	250	433
	Sri Lanka	50 Hz	wye	230	400
	Sudan	50 Hz	wye	240	415
	Suriname	60 Hz	delta	115	230
		50 Hz	wye	127	220
	Swaziland	50 Hz	wye	230	400
	Sweden	50 Hz	wye	220	380
	Switzerland	50 Hz	wye	220	380
	Syria	50 Hz	wye	220	380
	Tahiti	60 Hz	wye	127	220
	Taiwan	60 Hz	delta	110	220
	Tanzania	50 Hz	wye	230	400
	Thailand	50 Hz	wye	220	380
	Togo	50 Hz	wye	127	220
		50 Hz	wye	220	380
	Tonga	50 Hz	wye	240	415
	Trinidad & Tobago	60 Hz	delta	115	230
		60 Hz	wye	220	380
	Tunisia	50 Hz	wye	127	220

	50 Hz	wye	220	380
Turkey	50 Hz	wye	220	380
Uganda	50 Hz	wye	240	415
USSR	50 Hz	wye	220	380
United Arab Emirates	50 Hz	wye	220	400
	50 Hz	wye	230	400
	50 Hz	wye	220	380
U.K. (England)	50 Hz	wye	240	
	50 Hz	delta	240	
U.K. (N. Ireland)	50 Hz	wye	220	380
	50 Hz	wye	230	400
U.K. (Scotland)	50 Hz	wye	240	415
U.K. (Wales)	50 Hz	wye	240	415
U.S.A.	60 Hz	wye	120	208
	60 Hz	delta	120	240
	60 Hz			460
Upper Volta	50 Hz	wye	220	380
Uruguay	50 Hz		220	220
Venezuela	60 Hz	delta	120	240
Viet-Nam	50 Hz	wye	120	208
	50 Hz	wye	127	220
	50 Hz	wye	220	380
Virgin Islands	60 Hz	delta	120	240
Wales	50 Hz	wye	240	415
Western Samoa	50 Hz	wye	230	400
Yemen	50 Hz	wye	230	400
Yemen Arab Republic	50 Hz	wye	220	380
Yugoslavia	50 Hz	wye	220	380
Zaire	50 Hz	wye	220	380
Zambia	50 Hz	wye	220	380
Zimbabwe	50 Hz	wye	220	380
	50 Hz	wye	230	400