

## Listing of Countries with their Frequencies and Voltages

	Country	Frequency	System	Single Phase	Three Phase
[A]	Afghanistan	50 Hz	wye	220	380
	Algeria	50 Hz	wye	127	220
		50 Hz	wye	220	380
	American Samoa	60 Hz	delta	120/240	240
		60 Hz	delta	240/480	480
	Angola	50 Hz	wye	220	380
	Antigua	60 Hz	wye	230/400	400
	Argentina	50 Hz	wye	220	380
	Australia	50 Hz	wye	240/415	415
	Austria	50 Hz	wye	220	380
	Azores	50 Hz	wye	220/380	380
[B]	Bahamas	60 Hz	wye	120/208	208
		60 Hz	delta	120/240	240
	Bahrain	50 Hz	wye	230/400	400
		60 Hz	wye	230/400	400
	Bangladesh	50 Hz	wye	220/380	380
	Barbados	50 Hz	wye	115/200	200
		50 Hz	delta	115/230	230
	Belgium	50 Hz	wye	127/220	220
		50 Hz	wye	220/380	380
	Belize	60 Hz	delta	110/220	220
		60 Hz	delta	220/440	440
	Benin	50 Hz	wye	220	380
	Bermuda	60 Hz	wye	120/208	208
		60 Hz	delta	120/240	240
	Bolivia	50 Hz	delta	110/220	220
		50 Hz	delta	115/230	230
		50 Hz	wye	220	380
		50 Hz	wye	230/400	400
	Botswana	50 Hz	wye	220	380
	Brazil	60 Hz	delta	110/220	220
		60 Hz	wye	115/220	220
		60 Hz	delta	115/230	230
		60 Hz	wye	125/216	216
		60 Hz	wye	127/220	220
		60 Hz	wye	220/380	380
		50 Hz	delta	220/440	440
		60 Hz	wye	230/400	400
	Bulgaria	50 Hz	wye	220	380
	Burma	50 Hz	wye	230/400	400

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	Burundi	50 Hz	wye	220	380
[C]	Cambodia	50 Hz	wye	120	208
		50 Hz	wye	220/380	380
	Cameroon	50 Hz	wye	127	220
		50 Hz	wye	220/380	380
		50 Hz	wye	230/400	400
	Canada	60 Hz	delta	120/240	240
		60 Hz	wye		575
	Canary Island	50 Hz	wye	127/220	220
		50 Hz	wye	220/380	380
	Cape Verde	50 Hz	wye	220/380	380
	Cayman Islands	60 Hz	delta	120/240	240
	Central African Rep.	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	380
	China	50 Hz	wye	220	380
	Colombia	60 Hz	delta	110/220	220
		60 Hz	wye	120/208	208
		60 Hz	wye	150/240	240
	Congo	50 Hz	wye	220	380
	Costa Rica	50 Hz	delta	120/240	240
	Cyprus	50 Hz	wye	240	415
	Czechoslovakia	50 Hz	wye	220/380	380
[D]	Denmark	50 Hz	wye	220/380	380
	Djibouti	50 Hz	wye	220	380
	Dominica	50 Hz	wye	230	400
	Dominican Republic	60 Hz	delta	110/220	220
[E]	Ecuador	60 Hz	wye	120/208	208
		60 Hz	delta	120/240	240
		60 Hz	wye	127/220	220
	Egypt	50 Hz	wye	220/380	380
	El Salvador	60 Hz	delta	115/230	230
	England	50 Hz	wye	240/480	
		50 Hz	delta	240/480	
	Equatorial Guinea	50 Hz		220	
	Ethiopia	50 Hz	wye	220	380
[F]	Faeroe Islands	50 Hz	wye	220/380	380
	Fiji	50 Hz	wye	240/415	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	delta	115	230
		50 Hz	wye	127	220
		50 Hz	wye	220	380
	French Guiana	50 Hz	wye	220/380	380

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[G]	Gabon	50 Hz	wye	220	380
	Gambia	50 Hz	wye	220	380
	Germany	50 Hz	wye	220	380
	Ghana	50 Hz	wye	220/400	400
	Gibraltar	50 Hz	wye	240	415
	Greece	50 Hz	wye	220	380
	Greenland	50 Hz	wye	220/380	380
	Grenada	50 Hz	wye	230	400
	Guadeloupe	50 Hz	wye	220/380	380
	Guam	60 Hz	delta	110/220	220
		60 Hz	wye	120/208	208
	Guatemala	60 Hz	delta	120/240	240
	Guinea	50 Hz	wye	220/380	380
	Guinea-Bissau	50 Hz	wye	220/380	380
	Guyana	50 Hz	delta	110/220	220
		60 Hz	delta	110/220	220
[H]	Haiti	60 Hz	delta	110/220	220
		60 Hz	wye	120/208	208
	Honduras	60 Hz	delta	110/220	220
	Hong Kong	50 Hz	wye	200/346	346
	Hungary	50 Hz	wye	220/380	380
[I]	Iceland	50 Hz	wye	220/380	380
	India	50 Hz	wye	220	380
		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	380
	Iraq	50 Hz	wye	220	380
	Ireland	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
		50 Hz	wye	220	380
	Ivory Coast	50 Hz	wye	220	380
[J]	Jamaica	50 Hz	wye	110/220	220
	Japan	50 Hz	delta	100/200	200
		60 Hz	delta	100/200	200
	Jerusalem	50 Hz	wye	220/380	380
	Jordan	50 Hz	wye	220/380	380
[K]	Kenya	50 Hz	wye	240	415
	Korea	60 Hz	delta	100/200	200
		60 Hz	delta	105/210	
		60 Hz	wye	220	380
	Kuwait	50 Hz	wye	240	415
[L]	Laos	50 Hz	wye	220	380
	Lebanon	50 Hz	wye	110	190
		50 Hz	wye	220	380

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	Lesotho	50 Hz	wye	220	380
	Liberia	60 Hz	wye	120/208	208
		60 Hz	delta	120/240	240
	Libya	50 Hz	wye	127	220
		50 Hz	wye	230	400
	Luxembourg	50 Hz	wye	120/208	208
		50 Hz	wye	220/380	380
[M]	Macao	50 Hz	wye	220/380	380
	Madagascar	50 Hz	wye	127/220	220
		50 Hz	wye	220/380	380
	Madeira	50 Hz	wye	220/380	380
	Majorca Island	50 Hz	wye	127/220	220
		50 Hz	wye	220/380	380
	Malawi	50 Hz	wye	230/400	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	380
	Mauritius	50 Hz	wye	230	400
	Mexico	60 Hz	wye	127/220	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
	Monzambique	50 Hz	wye	220/380	380
[N]	Nepal	50 Hz	delta	220	440
	Netherlands	50 Hz	wye	220	380
	Netherlands Antilles	60 Hz	delta	115/230	
		60 Hz	wye	120/208	208
		50 Hz	wye	127/220	220
		50 Hz	wye	220/380	380
	New Caledonia	50 Hz	wye	220/380	380
	New Zealand	50 Hz	wye	230/400	400
	Nicaragua	60 Hz	delta	120/240	240
	Niger	50 Hz	wye	220/380	380
	Nigeria	50 Hz	wye	230	415
	Northern Ireland	50 Hz	wye	220	380
		50 Hz	wye	230	400
	Norway	50 Hz		230	230
[O]	Okinawa	60 Hz	delta	100/200	
		60 Hz	delta	120/240	
	Oman	50 Hz	wye	240	415
[P]	Pakistan	50 Hz	wye	220/380	380
		50 Hz	wye	230/400	400
	Panama	60 Hz	delta	110/220	220
		60 Hz	delta	115/230	230

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		60 Hz	wye	120/208	208
	Papua	50 Hz	wye	240	415
	Paraguay	50 Hz	wye	220	380
	Peru	60 Hz	delta	110/220	220
		50 Hz		220	220
	Philippines	60 Hz	delta	110/220	220
		60 Hz	delta	115/230	230
	Poland	50 Hz	wye	220/380	380
	Portugal	50 Hz	wye	220/380	380
	Puerto Rico	60 Hz	delta	120/240	240
[Q]	Qatar	50 Hz	wye	240	415
[R]	Romania	50 Hz	wye	220	380
	Rwanda	50 Hz	wye	220	380
[S]	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	380
	Scotland	50 Hz	wye	240	415
	Senegal	50 Hz	wye	127/220	220
	Seychelles	50 Hz		240	240
	Sierra Leone	50 Hz	wye	230	400
	Singapore	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	380
		50 Hz	wye	230/400	400
		50 Hz	wye	250/433	433
	Spain	50 Hz	wye	127/220	220
		50 Hz	wye	220/380	380
	Sri Lanka	50 Hz	wye	230	400
	Sudan	50 Hz	wye	240	415
	Suriname	60 Hz	delta	115/230	230
		50 Hz	wye	127/220	220
	Swaziland	50 Hz	wye	230	400
	Sweden	50 Hz	wye	220/380	380
	Switzerland	50 Hz	wye	220/380	380
	Syria	50 Hz	wye	220/380	380
[T]	Tahiti	60 Hz	wye	127/220	220
	Taiwan	60 Hz	delta	110/220	220
	Tanzania	50 Hz	wye	230/400	400
	Thailand	50 Hz	wye	220/380	380
	Togo	50 Hz	wye	127	220
		50 Hz	wye	220	380
	Tonga	50 Hz	wye	240/415	415
	Trinidad and Tobago	60 Hz	delta	115/230	230
		60 Hz	wye	230/400	400

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	Tunisia	50 Hz	wye	127	220
		50 Hz	wye	220	380
	Turkey	50 Hz	wye	220/380	380
[U]	Uganda	50 Hz	wye	240/415	415
	U.S.S.R.	50 Hz	wye	220/380	380
	United Arab Emirates	50 Hz	wye	220/380	380
		50 Hz	wye	230/400	400
		50 Hz	wye	240/415	415
	U. K. : (England)	50 Hz	wye	240/415	
		50 Hz	delta	240/480	
	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	415
	United States	60 Hz	wye	120/208	208
		60 Hz	delta	120/240	240
		60 Hz			460
	Upper Volta	50 Hz	wye	220	380
	Uruguay	50 Hz		220	220
[V]	Venezuela	60 Hz	delta	120/240	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	240
[W]	Wales	50 Hz	wye	240/415	415
	Western Samoa	50 Hz	wye	230/400	400
[Y]	Yemen	50 Hz	wye	230	400
	Yemen Arab Republic	50 Hz	wye	220	380
	Yugoslavia	50 Hz	wye	220	380
[Z]	Zaire	50 Hz	wye	220/380	380
	Zambia	50 Hz	wye	220	380
	Zimbabwe	50 Hz	wye	220/380	380
		50 Hz	wye	230/400	400

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