

COUNTRY	VOLTAGE	FREQUENCY
Afghanistan	220 V	50 Hz
Albania	220 V*	50 Hz
Algeria	230 V	50 Hz
American Samoa	120 V	60 Hz
Andorra	230 V	50 Hz
Angola	220 V	50 Hz
Anguilla	110 V	60 Hz
Antigua	230 V*	60 Hz
Argentina	220 V	50 Hz
Armenia	220 V	50 Hz
Aruba	127 V*	60 Hz
Australia	240 V	50 Hz
Austria	230 V	50 Hz
Azerbaijan	220 V	50 Hz
Azores	220 V*	50 Hz
Bahamas	120 V	60 Hz
Bahrain	230 V*	50 Hz*
Balearic Islands	220 V	50 Hz
Bangladesh	220 V	50 Hz
Barbados	115V	50 Hz
Belarus	220 V	50 Hz
Belgium	230 V	50 Hz
Belize	110/220 V	60 Hz
Benin	220 V	50 Hz
Bermuda	120 V	60 Hz
Bhutan	230 V	50 Hz
Bolivia	220/230 V*	50 Hz
Bosnia	220 V	50 Hz
Botswana	231V	50 Hz
Brazil	110/220 V*	60 Hz
Brunei	240 V	50 Hz
Bulgaria	230 V	50 Hz
Burkina Faso	220 V	50 Hz
Burundi	220 V	50 Hz
Cambodia	230 V	50 Hz
Cameroon	220 V	50 Hz
Canada	120 V	60 Hz
Canary Islands	220 V	50 Hz
Cape Verde	220 V	50 Hz
Cayman Islands	120 V	60 Hz
Central African	220 V	50 Hz

Republic		
Chad	220 V	50 Hz
Channel Islands	230 V	50 Hz
Chile	220 V	50 Hz
China, People's Republic of	220 V	50 Hz
Colombia	110 V	60 Hz
Comoros	220 V	50 Hz
Congo, People's Rep. of	230 V	50 Hz
Congo, Dem. Rep. of (former Zaire)	220 V	50 Hz
Cook Islands	240 V	50 Hz
Costa Rica	120 V	60 Hz
Côte d'Ivoire (Ivory Coast)	220 V	50 Hz
Croatia	230 V	50 Hz
Cuba	110/220 V	60 Hz
Cyprus	240 V	50 Hz
Czech Republic	230 V	50 Hz
Denmark	230 V	50 Hz
Djibouti	220 V	50 Hz
Dominica	230 V	50 Hz
Dominican Republic	110 V	60 Hz
East Timor	220 V	50 Hz
Ecuador	120-127 V	60 Hz
Egypt	220 V	50 Hz
El Salvador	115V	60 Hz
England (See United Kingdom)		
Equatorial Guinea	220 V*	50 Hz
Eritrea	230 V	50 Hz
Estonia	230 V	50 Hz
Ethiopia	220 V	50 Hz
Faeroe Islands	220 V	50 Hz
Falkland Islands	240 V	50 Hz
Fiji	240 V	50 Hz
Finland	230 V	50 Hz
France	230 V	50 Hz
French Guiana	220 V	50 Hz
Gaza	230 V	50 Hz
Gabon	220 V	50 Hz
Gambia	230 V	50 Hz
Georgia	220 V	50 Hz

Germany	230 V	50 Hz
Ghana	230 V	50 Hz
Gibraltar	240 V	50 Hz
Great Britain (See United Kingdom)		
Greece	220 V	50 Hz
Greenland	220 V	50 Hz
Grenada (Windward Is.)	230 V	50 Hz
Guadeloupe	230 V	50 Hz
Guam	110 V	60 Hz
Guatemala	120 V	60 Hz
Guinea	220 V	50 Hz
Guinea-Bissau	220 V	50 Hz
Guyana	240 V*	60 Hz*
Haiti	110 V	60 Hz
Honduras	110 V	60 Hz
Hong Kong	220 V*	50 Hz
Hungary	230 V	50 Hz
Iceland	220 V	50 Hz
India	230 V	50 Hz
Indonesia	127/230 V*	50 Hz
Iran	230 V	50 Hz
Iraq	230 V	50 Hz
Ireland (Eire)	230	50 Hz
Isle of Man	240 V	50 Hz
Israel	220 V	50 Hz
Italy	230 V	50 Hz
Ivory Coast (See Côte d'Ivoire)		
Jamaica	110 V	50 Hz
Japan	100 V	50/60 Hz*
Jordan	230 V	50 Hz
Kenya	240 V	50 Hz
Kazakhstan	220 V	50 Hz
Kiribati	240 V	50 Hz
Korea, South	220 V	60 Hz
Kuwait	240 V	50 Hz
Laos	230 V	50 Hz
Latvia	220 V	50 Hz
Lebanon	110/220 V	50 Hz
Lesotho	220 V	50 Hz
Liberia	120 V	60 Hz

Libya	127 V*	50 Hz
Lithuania	220 V	50 Hz
Liechtenstein	230 V	50 Hz
Luxembourg	220 V	50 Hz
Macau	220 V	50 Hz
Macedonia	220 V	50 Hz
Madagascar	220 V	50 Hz
Madeira	220 V	50 Hz
Malawi	230 V	50 Hz
Malaysia	240 V	50 Hz
Maldives	230 V	50 Hz
Mali	220 V	50 Hz
Malta	240 V	50 Hz
Martinique	220 V	50 Hz
Mauritania	220 V	50 Hz
Mauritius	230 V	50 Hz
Mexico	127 V	60 Hz
Micronesia (Federal States of)	120 V	60 Hz
Monaco	127/220 V	50 Hz
Mongolia	220 V	50 Hz
Montenegro	220 V	50 Hz
Montserrat (Leeward Is.)	230 V	60 Hz
Morocco	127/220 V*	50 Hz
Mozambique	220 V	50 Hz
Myanmar (formerly Burma)	230 V	50 Hz
Namibia	220 V	50 Hz
Nauru	240 V	50 Hz
Nepal	230 V	50 Hz
Netherlands	230 V	50 Hz
Netherlands Antilles	127/220 V*	50 Hz
New Caledonia	220 V	50 Hz
New Zealand	230 V	50 Hz
Nicaragua	120 V	60 Hz
Niger	220 V	50 Hz
Nigeria	240 V	50 Hz
Northern Ireland (see United Kingdom)		
Norway	230 V	50 Hz
Okinawa	100 V*	60 Hz
Oman	240 V*	50 Hz

Pakistan	220 V	50 Hz
Palmyra Atoll	120 V	60 Hz
Panama	110 V*	60 Hz
Papua New Guinea	240 V	50 Hz
Paraguay	220 V	50 Hz
Peru	220 V*	60 Hz*
Philippines	220 V	60 Hz
Poland	230 V	50 Hz
Portugal	230 V	50 Hz
Puerto Rico	120 V	60 Hz
Qatar	240 V	50 Hz
Réunion Island	220 V	50 Hz
Romania	230 V	50 Hz
Russia	220 V	50 Hz
Rwanda	230 V	50 Hz
St. Kitts and Nevis (Leeward Is.)	230 V	60 Hz
St. Lucia (Windward Is.)	240 V	50 Hz
St. Vincent (Windward Is.)	230 V	50 Hz
Samoa	230 V	50 Hz
Saudi Arabia	127/220 V	60 Hz
Scotland (See United Kingdom)		
Senegal	230 V	50 Hz
Serbia	220 V	50 Hz
Seychelles	240 V	50 Hz
Sierra Leone	230 V	50 Hz
Singapore	230 V	50 Hz
Slovak Republic	230 V	50 Hz
Slovenia	220 V	50 Hz
Somalia	220 V*	50 Hz
South Africa	220/230 V*	50 Hz
Spain	230 V	50 Hz
Sri Lanka	230 V	50 Hz
Sudan	230 V	50 Hz
Suriname	127 V	60 Hz
Swaziland	230 V	50 Hz
Sweden	230 V	50 Hz
Switzerland	230 V	50 Hz
Syria	220 V	50 Hz
Tahiti	110/220 V	60 Hz

Tajikistan	220 V	50 Hz
Taiwan	110 V	60 Hz
Tanzania	230 V	50 Hz
Thailand	220 V	50 Hz
Togo	220 V*	50 Hz
Tonga	240 V	50 Hz
Trinidad & Tobago	115V	60 Hz
Tunisia	230 V	50 Hz
Turkey	230 V	50 Hz
Turkmenistan	220 V	50 Hz
Uganda	240 V	50 Hz
Ukraine	220 V	50 Hz
United Arab Emirates	220 V*	50 Hz
United Kingdom	230 V*	50 Hz
United States of America	120 V	60 Hz
Uruguay	220 V	50 Hz
Uzbekistan	220 V	50 Hz
Vanuatu	230 V	50 Hz
Venezuela	120 V	60 Hz
Vietnam	127/220 V*	50 Hz
Virgin Islands (British and U.S.)	115V	60 Hz
Wales (See United Kingdom)		
Yemen, Rep. of	220/230 V	50 Hz
Zambia	230 V	50 Hz
Zimbabwe	220 V	50 Hz