

The table below summarizes information on the electrical systems in use in most countries of the world.

The voltages listed here are the "nominal" figures reported to be in use at most residential or commercial sites in the country or area named. Most electrical power systems are prone to slight variations in voltage due to demand or other factors. Many former 220 V countries have converted or are in the process of converting to the EU standard of 230 V. Generally, this difference is inconsequential, as most appliances are built to tolerate current a certain percentage above or below the rated voltage. However, severe variations in current can damage electrical equipment.

The electric power frequency is shown in the number of hertz (cycles per second). Even if voltages are similar, a 60-hertz clock or tape recorder may not function properly on 50 hertz current. All systems described here use alternating current (AC).

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<b>COUNTRY</b>	<b>VOLTAGE</b>	<b>FREQUENCY</b>
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 Republic	220 V	50 Hz
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	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