

List of Worldwide AC Voltages & Frequencies

Source: [Ron Kurtus' School for Champions](#) (revised 13 February 2016)

The voltage and frequency of alternating current (AC) electricity used in homes varies from country to country throughout the world. Typically, either 110-volt AC (110V) or 220-volt AC (220V) is used. Most countries use 50Hz (50 Hertz or 50 cycles per second) as their AC frequency. Only a handful use 60Hz.

STANDARD IN THE UNITED STATES

The standard in the United States is **120V** and **60Hz** AC electricity.

STANDARD IN AUSTRALIA

The standard in Australia is **220V** and **50Hz** AC electricity.

STANDARD IN THE CANADA

The standard in Canada is **120V** and **60Hz** AC electricity.

LISTING PER COUNTRY

Of the over 200 countries listed below, most use 220-240 VAC. Others use between 100-120VAC. Some countries, including the United States, use dual voltages. 43 countries use 60Hz, while the rest use 50Hz.

Country	Voltage	Frequency	Country	Voltage	Frequency
Afghanistan	220V	50Hz	Kiribati	240V	50Hz
Albania	230V	50Hz	Korea, South	220V	60Hz
Algeria	230V	50Hz	Kuwait	240V	50Hz
American Samoa	120V	60Hz	Kyrgyzstan	220V	50Hz
Andorra	230V	50Hz	Laos	230V	50Hz
Angola	220V	50Hz	Latvia	230V	50Hz
Anguilla	110V	60Hz	Lebanon	230V	50Hz
Antigua	230V	60Hz	Lesotho	220V	50Hz
Argentina	220V	50Hz	Liberia	120V	60Hz
Armenia	230V	50Hz	Libya	127/230V	50Hz
Aruba	127V	60Hz	Lithuania	230V	50Hz
Australia	240V	50Hz	Liechtenstein	230V	50Hz
Austria	230V	50Hz	Luxembourg	230V	50Hz
Azerbaijan	220V	50Hz	Macau	220V	50Hz
Azores	230V	50Hz	Macedonia	230V	50Hz

Country	Voltage	Frequency		Country	Voltage	Frequency
Bahamas	120V	60Hz		Madagascar	127/220V	50Hz
Bahrain	230V	50Hz		Madeira	230V	50Hz
Balearic Islands	230V	50Hz		Malawi	230V	50Hz
Bangladesh	220V	50Hz		Malaysia	240V	50Hz
Barbados	115V	50Hz		Maldives	230V	50Hz
Belarus	230V	50Hz		Mali	220V	50Hz
Belgium	230V	50Hz		Malta	230V	50Hz
Belize	110/220V	60Hz		Martinique	220V	50Hz
Benin	220V	50Hz		Mauritania	220V	50Hz
Bermuda	120V	60Hz		Mauritius	230V	50Hz
Bhutan	230V	50Hz		Mexico	127V	60Hz
Bolivia	230V	50Hz		Micronesia	120V	60Hz
Bosnia	230V	50Hz		Moldova	230V	50Hz
Botswana	230V	50Hz		Monaco	230V	50Hz
Brazil	110-220V	60Hz		Mongolia	230V	50Hz
Brunei	240V	50Hz		Montserrat Islands	230V	60Hz
Bulgaria	230V	50Hz		Morocco	220V	50Hz
Burkina Faso	220V	50Hz		Mozambique	220V	50Hz
Burundi	220V	50Hz		Myanmar (Burma)	230V	50Hz
Cambodia	230V	50Hz		Namibia	220V	50Hz
Cameroon	220V	50Hz		Nauru	240V	50Hz
Canada	120V	60Hz		Nepal	230V	50Hz
Canary Islands	230V	50Hz		Netherlands	230V	50Hz
Cape Verde	230V	50Hz		Netherlands Antilles	127/220V	50Hz
Cayman Islands	120V	60Hz		New Caledonia	220V	50Hz
Central Africa	220V	50Hz		New Zealand	230V	50Hz
Chad	220V	50Hz		Nicaragua	120V	60Hz
Channel Islands	230V	50Hz		Niger	220V	50Hz
Chile	220V	50Hz		Nigeria	240V	50Hz
China	220V	50Hz		Norway	230V	50Hz
Colombia	110V	60Hz		Okinawa	100V	60Hz
Comoros	220V	50Hz		Oman	240V	50Hz
Congo (Zaire)	220V	50Hz		Pakistan	230V	50Hz
Cook Islands	240V	50Hz		Palmyra Atoll	120V	60Hz
Costa Rica	120V	60Hz		Panama	110V	60Hz

Country	Voltage	Frequency		Country	Voltage	Frequency
Côte d'Ivoire (Ivory Coast)	220V	50Hz		Papua New Guinea	240V	50Hz
Croatia	230V	50Hz		Paraguay	220V	50Hz
Cuba	110/220V	60Hz		Peru	220V	60Hz
Cyprus	230V	50Hz		Philippines	220V	60Hz
Czech Republic	230V	50Hz		Poland	230V	50Hz
Denmark	230V	50Hz		Portugal	230V	50Hz
Djibouti	220V	50Hz		Puerto Rico	120V	60Hz
Dominica	230V	50Hz		Qatar	240V	50Hz
Dominican Republic	110V	60Hz		Réunion Island	230V	50Hz
East Timor	220V	50Hz		Romania	230V	50Hz
Ecuador	127V	60Hz		Russian Federation	230V	50Hz
Egypt	220V	50Hz		Rwanda	230V	50Hz
El Salvador	115V	60Hz		St. Kitts & Nevis Islands	230V	60Hz
Equatorial Guinea	220V	50Hz		St. Lucia Island	240V	50Hz
Eritrea	230V	50Hz		St. Vincent Island	230V	50Hz
Estonia	230V	50Hz		Saudi Arabia	127/220V	60Hz
Ethiopia	220V	50Hz		Senegal	230V	50Hz
Faeroe Islands	230V	50Hz		Serbia & Montenegro	230V	50Hz
Falkland Islands	240V	50Hz		Seychelles	240V	50Hz
Fiji	240V	50Hz		Sierra Leone	230V	50Hz
Finland	230V	50Hz		Singapore	230V	50Hz
France	230V	50Hz		Slovakia	230V	50Hz
French Guyana	220V	50Hz		Slovenia	230V	50Hz
Gaza	230V	50Hz		Somalia	220V	50Hz
Gabon	220V	50Hz		South Africa	230V	50Hz
Gambia	230V	50Hz		Spain	230V	50Hz
Germany	230V	50Hz		Sri Lanka	230V	50Hz
Ghana	230V	50Hz		Sudan	230V	50Hz
Gibraltar	230V	50Hz		Suriname	127V	60Hz
Greece	230V	50Hz		Swaziland	230V	50Hz
Greenland	230V	50Hz		Sweden	230V	50Hz
Grenada	230V	50Hz		Switzerland	230V	50Hz
Guadeloupe	230V	50Hz		Syria	220V	50Hz
				Tahiti	110/220V	60Hz

Country	Voltage	Frequency		Country	Voltage	Frequency
Guam	110V	60Hz		Tajikistan	220V	50Hz
Guatemala	120V	60Hz		Taiwan	110V	60Hz
Guinea	220V	50Hz		Tanzania	230V	50Hz
Guinea-Bissau	220V	50Hz		Thailand	220V	50Hz
Guyana	240V	60Hz		Togo	220V	50Hz
Haiti	110V	60Hz		Tonga	240V	50Hz
Honduras	110V	60Hz		Trinidad & Tobago	115V	60Hz
Hong Kong	220V	50Hz		Tunisia	230V	50Hz
Hungary	230V	50Hz		Turkey	230V	50Hz
Iceland	230V	50Hz		Turkmenistan	220V	50Hz
India	240V	50Hz		Uganda	240V	50Hz
Indonesia	230V	50Hz		Ukraine	230V	50Hz
Iran	230V	50Hz		United Arab Emirates	220V	50Hz
Iraq	230V	50Hz		United Kingdom	230/240V	50Hz
Ireland (Eire)	230V	50Hz		United States	120/240V	60Hz
Isle of Man	230V	50Hz		Uruguay	220V	50Hz
Israel	230V	50Hz		Uzbekistan	220V	50Hz
Italy	230V	50Hz		Venezuela	120V	60Hz
Jamaica	110V	50Hz		Vietnam	220V	50Hz
Japan	100V	50/60Hz		Virgin Islands	110V	60Hz
Jordan	230V	50Hz		Western Samoa	230V	50Hz
Kenya	240V	50Hz		Yemen	230V	50Hz
Kazakhstan	220V	50Hz		Zambia	230V	50Hz
				Zimbabwe	220V	50Hz