

Country	Single-Phase Voltage (Volts)	Three-Phase Voltage (Volts)	Frequency (Hertz)	# of wires (ground wire excluded)	Plug Type
Abu Dhabi	230 V	400 V	50 Hz	3, 4	G
Afghanistan	220 V	380 V	50 Hz	4	C/F
Albania	230 V	400 V	50 Hz	4	C/F
Algeria	230 V	400 V	50 Hz	4	C/F
American Samoa	120 V	208 V	60 Hz	3, 4	A/B/F/I
Andorra	230 V	400 V	50 Hz	3, 4	C/F
Angola	220 V	380 V	50 Hz	4	C/F
Anguilla	110 V	120/208 V / 127/220 V / 240/415 V	60 Hz	3, 4	A/B
Antigua and Barbuda	230 V	400 V	60 Hz	3, 4	A/B
Argentina	220 V	380 V	50 Hz	3, 4	C/I
Armenia	230 V	400 V	50 Hz	4	C/F
Aruba	120 V	220 V	60 Hz	3, 4	A/B/F/I
Australia	230 V	400 V	50 Hz	3, 4	I
Austria	230 V	400 V	50 Hz	3, 4	C/F
Azerbaijan	220 V	380 V	50 Hz	4	C/F
Azores	230 V	400 V	50 Hz	3, 4	B/C/F
Bahamas	120 V	208 V	60 Hz	3, 4	A/B
Bahrain	230 V	400 V	50 Hz	3, 4	G
Balearic Islands	230 V	400 V	50 Hz	3, 4	C/F
Bangladesh	220 V	380 V	50 Hz	3, 4	A/C/D/G/K
Barbados	115 V	200 V	50 Hz	3, 4	A/B
Belarus	220 V	380 V	50 Hz	4	C/F
Belgium	230 V	400 V	50 Hz	3, 4	C/E
Belize	110 V / 220 V	190 V / 380 V	60 Hz	3, 4	A/B/G
Benin	220 V	380 V	50 Hz	4	C/E
Bermuda	120 V	208 V	60 Hz	3, 4	A/B
Bhutan	230 V	400 V	50 Hz	4	C/D/G
Bolivia	230 V	400 V	50 Hz	4	A/C
Bonaire	127 V	220 V	50 Hz	3, 4	A/C
Bosnia & Herzegovina	230 V	400 V	50 Hz	4	C/F
Botswana	230 V	400 V	50 Hz	4	D/G
Brazil	127 V / 220 V	220 V / 380 V	60 Hz	3, 4	C/N
British Virgin Islands	110 V	190 V	60 Hz	3, 4	A/B

Country	Single-Phase Voltage (Volts)	Three-Phase Voltage (Volts)	Frequency (Hertz)	# of wires (ground wire excluded)	Plug Type
Brunei	240 V	415 V	50 Hz	4	G
Bulgaria	230 V	400 V	50 Hz	4	C/F
Burkina Faso	220 V	380 V	50 Hz	4	C/E
Burma (officially Myanmar)	230 V	400 V	50 Hz	4	A/C/D/G/I
Burundi	220 V	380 V	50 Hz	4	C/E
Cambodia	230 V	400 V	50 Hz	4	A/C/G
Cameroon	220 V	380 V	50 Hz	4	C/E
Canada	120 V	120/208 V / 240 V / 480 V / 347/600 V	60 Hz	3, 4	A/B
Canary Islands	230 V	400 V	50 Hz	3, 4	C/E/F
Cape Verde	230 V	400 V	50 Hz	3, 4	C/F
Cayman Islands	120 V	240 V	60 Hz	3	A/B
Central African Republic	220 V	380 V	50 Hz	4	C/E
Chad	220 V	380 V	50 Hz	4	C/D/E/F
Channel Islands (Guernsey & Jersey)	230 V	415 V	50 Hz	4	C/G
Chile	220 V	380 V	50 Hz	3, 4	C/L
China	220 V	380 V	50 Hz	3, 4	A/C/I
Colombia	110 V	220 V / 440 V	60 Hz	3, 4	A/B
Comoros	220 V	380 V	50 Hz	4	C/E
Congo, Democratic	220 V	380 V	50 Hz	3, 4	C/D/E
Congo, People's Republic	230 V	400 V	50 Hz	3, 4	C/E
Cook Islands	240 V	415 V	50 Hz	3, 4	I
Costa Rica	120 V	240 V	60 Hz	3, 4	A/B
Côte d'Ivoire (Ivory Coast)	220 V	380 V	50 Hz	3, 4	C/E
Croatia	230 V	400 V	50 Hz	4	C/E
Cuba	110 V / 220 V	190 V	60 Hz	3	A/B/C/L
Curaçao	127 V	220 V / 380 V	50 Hz	3, 4	A/B
Cyprus	230 V	400 V	50 Hz	4	G
Czech Republic	230 V	400 V	50 Hz	3, 4	C/E
Denmark	230 V	400 V	50 Hz	3, 4	C/E/F/K
Djibouti	220 V	380 V	50 Hz	4	C/E
Dominica	230 V	400 V	50 Hz	4	D/G
Dominican Republic	120 V	120/208 V / 277/480 V	60 Hz	3, 4	A/B

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Dubai	230 V	400 V	50 Hz	3, 4	G
East Timor (Timor-Leste)	220 V	380 V	50 Hz	4	C/E/F/I
Ecuador	120 V	208 V	60 Hz	3, 4	A/B
Egypt	220 V	380 V	50 Hz	3, 4	C/F
El Salvador	120 V	200 V	60 Hz	3	A/B
England	230 V	415 V	50 Hz	4	G
Equatorial Guinea	220 V	unavailable	unavailable	unavailable	C/E
Eritrea	230 V	400 V	50 Hz	4	C/L
Estonia	230 V	400 V	50 Hz	4	C/F
Ethiopia	220 V	380 V	50 Hz	4	C/F
Faeroe Islands	230 V	400 V	50 Hz	3, 4	C/E/F/K
Falkland Islands	240 V	415 V	50 Hz	4	G
Fiji	240 V	415 V	50 Hz	3, 4	I
Finland	230 V	400 V	50 Hz	3, 4	C/F
France	230 V	400 V	50 Hz	4	C/E
French Guiana	220 V	380 V	50 Hz	3, 4	C/D/E
Gabon (Gabonese Republic)	220 V	380 V	50 Hz	4	C
Gambia	230 V	400 V	50 Hz	4	G
Gaza	230 V	400 V	50 Hz	4	C/H
Georgia	220 V	380 V	50 Hz	4	C/F
Germany	230 V	400 V	50 Hz	4	C/F
Ghana	230 V	400 V	50 Hz	3, 4	D/G
Gibraltar	230 V	400 V	50 Hz	4	G
Great Britain (GB)	230 V	415 V	50 Hz	4	G
Greece	230 V	400 V	50 Hz	4	C/F
Greenland	230 V	400 V	50 Hz	3, 4	C/E/F/K
Grenada	230 V	400 V	50 Hz	4	G
Guadeloupe	230 V	400 V	50 Hz	3, 4	C/E
Guam	110 V	190 V	60 Hz	3, 4	A/B
Guatemala	120 V	208 V	60 Hz	3, 4	A/B
Guinea	220 V	380 V	50 Hz	3, 4	C/F/K
Guinea-Bissau	220 V	380 V	50 Hz	3, 4	C
Guyana	120 V/ 240 V	190 V	60 Hz	3, 4	A/B/D/G
Haiti	110 V	190 V	60 Hz	3, 4	A/B

Country	Single-Phase Voltage (Volts)	Three-Phase Voltage (Volts)	Frequency (Hertz)	# of wires (ground wire excluded)	Plug Type
Holland (officially the Netherlands)	230 V	400 V	50 Hz	3, 4	C/F
Honduras	120 V	208 V / 230 V / 240 V / 460 V / 480 V	60 Hz	3, 4	A/B
Hong Kong	220 V	380 V	50 Hz	3, 4	G
Hungary	230 V	400 V	50 Hz	3, 4	C/F
Iceland	230 V	400 V	50 Hz	3, 4	C/F
India	230 V	400 V	50 Hz	4	C/D/M
Indonesia	230 V	400 V	50 Hz	4	C/F
Iran	230 V	400 V	50 Hz	3, 4	C/F
Iraq	230 V	400 V	50 Hz	4	C/D/G
Ireland (Eire)	230 V	415 V	50 Hz	4	G
Ireland, Northern	230 V	415 V	50 Hz	4	G
Isle of Man	230 V	415 V	50 Hz	4	C/G
Israel	230 V	400 V	50 Hz	4	C/H
Italy	230 V	400 V	50 Hz	4	C/F/L
Jamaica	110 V	190 V	50 Hz	3, 4	A/B
Japan	100 V	200 V	50 / 60 Hz	3	A/B
Jordan	230 V	400 V	50 Hz	3, 4	C/D/F/G/J
Kazakhstan	220 V	380 V	50 Hz	3, 4	C/F
Kenya	240 V	415 V	50 Hz	4	G
Kiribati	240 V	unavailable	unavailable	unavailable	I
Korea, North	220 V	380 V	50 Hz	3, 4	C
Korea, South	220 V	380 V	60 Hz	4	C/F
Kosovo	230 V	230 V / 400 V	50 Hz	3	C/F
Kuwait	240 V	415 V	50 Hz	4	G
Kyrgyzstan	220 V	380 V	50 Hz	3, 4	C/F
Laos	230 V	400 V	50 Hz	4	A/B/C/E/F
Latvia	230 V	400 V	50 Hz	4	C/F
Lebanon	230 V	400 V	50 Hz	4	C/D/G
Lesotho	220 V	380 V	50 Hz	4	M
Liberia	120 V	208 V	60 Hz	3, 4	A/B
Libya	230 V	400 V	50 Hz	4	C/L
Liechtenstein	230 V	400 V	50 Hz	4	C/J

Country	Single-Phase Voltage (Volts)	Three-Phase Voltage (Volts)	Frequency (Hertz)	# of wires (ground wire excluded)	Plug Type
Lithuania	230 V	400 V	50 Hz	4	C/F
Luxembourg	230 V	400 V	50 Hz	4	C/F
Macau	220 V	380 V	50 Hz	3	G
Macedonia	230 V	400 V	50 Hz	4	C/F
Madagascar	220 V	380 V	50 Hz	3, 4	C/E
Madeira	230 V	400 V	50 Hz	3, 4	C/F
Malawi	230 V	400 V	50 Hz	3, 4	G
Malaysia	240 V	415 V	50 Hz	4	G
Maldives	230 V	400 V	50 Hz	4	C/D/G/J/K/L
Mali	220 V	380 V	50 Hz	3, 4	C/E
Malta	230 V	400 V	50 Hz	4	G
Marshall Islands	120 V	unavailable	unavailable	unavailable	A/B
Martinique	220 V	380 V	50 Hz	3, 4	C/D/E
Mauritania	220 V	220 V	50 Hz	3, 4	C
Mauritius	230 V	400 V	50 Hz	4	C/G
Mayotte	230 V	unavailable	unavailable	unavailable	C/E
Mexico	127 V	220 V/ 480 V	60 Hz	3, 4	A/B
Micronesia, Federated States	120 V	unavailable	unavailable	unavailable	A/B
Moldova	230 V	400 V	50 Hz	4	C/F
Monaco	230 V	400 V	50 Hz	4	C/E/F
Mongolia	230 V	400 V	50 Hz	4	C/E
Montenegro	230 V	400 V	50 Hz	3, 4	C/F
Montserrat	230 V	400 V	60 Hz	4	A/B
Morocco	220 V	380 V	50 Hz	4	C/E
Mozambique	220 V	380 V	50 Hz	4	C/F/M
Myanmar (formerly Burma)	230 V	400 V	50 Hz	4	A/C/D/G/I
Namibia	220 V	380 V	50 Hz	4	D/M
Nauru	240 V	415 V	50 Hz	4	I
Nepal	230 V	400 V	50 Hz	4	C/D/M
Netherlands	230 V	400 V	50 Hz	3, 4	C/F
New Caledonia	220 V	380 V	50 Hz	3, 4	C/F
New Zealand	230 V	400 V	50 Hz	3, 4	I
Nicaragua	120 V	208 V	60 Hz	3, 4	A/B
Niger	220 V	380 V	50 Hz	4	C/D/E/F

Country	Single-Phase Voltage (Volts)	Three-Phase Voltage (Volts)	Frequency (Hertz)	# of wires (ground wire excluded)	Plug Type
Nigeria	230 V	415 V	50 Hz	4	D/G
Northern Ireland	230 V	415 V	50 Hz	4	G
North Korea	220 V	380 V	50 Hz	3, 4	C
Norway	230 V	230 V / 400 V	50 Hz	3, 4	C/F
Oman	240 V	415 V	50 Hz	4	G
Pakistan	230 V	400 V	50 Hz	3	C/D
Palau	120 V	208 V	60 Hz	3	A/B
Panama	120 V	240 V	60 Hz	3	A/B
Papua New Guinea	240 V	415 V	50 Hz	4	I
Paraguay	220 V	380 V	50 Hz	4	C
Peru	220 V	220 V	60 Hz	3	A/C
Philippines	220 V	380 V	60 Hz	3	A/B/C
Pitcairn Islands	230 V	unavailable	unavailable	unavailable	I
Poland	230 V	400 V	50 Hz	4	C/E
Portugal	230 V	400 V	50 Hz	3, 4	C/F
Puerto Rico	120 V	480 V	60 Hz	3, 4	A/B
Qatar	240 V	415 V	50 Hz	3, 4	G
Réunion	230 V	400 V	50 Hz	4	C/E
Romania	230 V	400 V	50 Hz	4	C/F
Russia	220 V	380 V	50 Hz	4	C/F
Rwanda	230 V	400 V	50 Hz	4	C/J
Saba	110 V	unavailable	unavailable	unavailable	A/B
Saint Barthélemy	230 V	unavailable	unavailable	unavailable	C/E
Saint Kitts and Nevis	230 V	400 V	60 Hz	4	D/G
Saint Lucia	230 V	400 V	50 Hz	4	G
Saint Martin	220 V	unavailable	unavailable	unavailable	C/E
Saint Helena	230 V	unavailable	unavailable	unavailable	G
Sint Eustatius	110 V / 220 V	220 V	60 Hz	3, 4	A/B/C/F
Sint Maarten	110 V	220 V	60 Hz	3, 4	A/B
Saint Vincent and the Grenadines	110 V / 230 V	400 V	50 Hz	4	A/B/G
Samoa	230 V	400 V	50 Hz	3, 4	I
San Marino	230 V	400 V	50 Hz	4	C/F/L
São Tomé and Príncipe	230 V	400 V	50 Hz	3, 4	C/F
Saudi Arabia	230 V	400 V	60 Hz	4	G

Country	Single-Phase Voltage (Volts)	Three-Phase Voltage (Volts)	Frequency (Hertz)	# of wires (ground wire excluded)	Plug Type
Scotland	230 V	415 V	50 Hz	4	G
Senegal	230 V	400 V	50 Hz	3, 4	C/D/E/K
Serbia	230 V	400 V	50 Hz	3, 4	C/F
Seychelles	240 V	240 V	50 Hz	3	G
Sierra Leone	230 V	400 V	50 Hz	4	D/G
Singapore	230 V	400 V	50 Hz	4	G
Slovakia	230 V	400 V	50 Hz	4	C/E
Slovenia	230 V	400 V	50 Hz	3, 4	C/F
Solomon Islands	230 V	unavailable	unavailable	unavailable	G/I
Somalia	220 V	380 V	50 Hz	3, 4	C
Somaliland	220 V	380 V	50 Hz	3, 4	C
South Africa	230 V	400 V	50 Hz	3, 4	C/D/M/N
South Korea	220 V	380 V	60 Hz	4	C/F
South Sudan	230 V	400 V	50 Hz	4	C/D
Spain	230 V	400 V	50 Hz	3, 4	C/F
Sri Lanka	230 V	400 V	50 Hz	4	D/G
Sudan	230 V	400 V	50 Hz	4	C/D
Suriname	127 V / 230 V	220 V / 400 V	60 Hz	3, 4	A/B/C/F
Swaziland	230 V	400 V	50 Hz	4	M
Sweden	230 V	400 V	50 Hz	3, 4	C/F
Switzerland	230 V	400 V	50 Hz	3, 4	C/J
Syria	220 V	380 V	50 Hz	3	C/E/L
Tahiti	220 V	380 V	50 / 60 Hz	3, 4	C/E
Taiwan	110 V	220 V	60 Hz	4	A/B
Tajikistan	220 V	380 V	50 Hz	3	C/F
Tanzania	230 V	415 V	50 Hz	3, 4	D/G
Thailand	230 V	400 V	50 Hz	3, 4	A/B/C/O
Togo	220 V	380 V	50 Hz	4	C
Tonga	240 V	415 V	50 Hz	3, 4	I
Trinidad & Tobago	115 V	115/230 V / 230/400 V	60 Hz	4	A/B
Tunisia	230 V	400 V	50 Hz	4	C/E
Turkey	230 V	400 V	50 Hz	3, 4	C/F
Turkmenistan	220 V	380 V	50 Hz	3	C/F
Turks and Caicos Islands	120 V	240 V	60 Hz	4	A/B

Country	Single-Phase Voltage (Volts)	Three-Phase Voltage (Volts)	Frequency (Hertz)	# of wires (ground wire excluded)	Plug Type
Uganda	240 V	415 V	50 Hz	4	G
Ukraine	230 V	400 V	50 Hz	4	C/F
United Arab Emirates	230 V	400 V	50 Hz	3, 4	G
United Kingdom (UK)	230 V	415 V	50 Hz	4	G
United States of America	120 V	120/208 V/ 277/480 V/ 120/240 V/ 240 V/ 480 V	60 Hz	3, 4	A/B
United States Virgin Islands	110 V	190 V	60 Hz	3, 4	A/B
Uruguay	220 V	380 V	50 Hz	3	C/F/L
Uzbekistan	220 V	380 V	50 Hz	4	C/F
Vanuatu	230 V	400 V	50 Hz	3, 4	I
Venezuela	120 V	120 V	60 Hz	3, 4	A/B
Vietnam	220 V	380 V	50 Hz	4	A/C/D
Virgin Islands (British)	110 V	190 V	60 Hz	3, 4	A/B
Virgin Islands (USA)	110 V	190 V	60 Hz	3, 4	A/B
Wales	230 V	415 V	50 Hz	4	G
Yemen	230 V	400 V	50 Hz	4	A/D/G
Zambia	230 V	400 V	50 Hz	4	C/D/G
Zimbabwe	240 V	415 V	50 Hz	3, 4	D/G