



INTERNATIONAL VOLTAGES / FREQUENCY

Country	Voltage	Frequency	Country	Voltage	Frequency
Afghanistan	220V	50 Hz	Central African Republic	220V	50 Hz
Albania	220V	50 Hz	Chad	220V	50 Hz
Algeria	230V	50 Hz	Channel Islands	230V	50 Hz
American Samoa	120V	60 Hz	Chile	220V	50 Hz
Andorra	230V	50 Hz	China	220V	50 Hz
Angola	220V	50 Hz	Colombia	110V	60 Hz
Anguilla	110V	60 Hz	Comoros	220V	50 Hz
Antigua	230V	60 Hz	Congo	230V	50 Hz
Argentina	220V	50 Hz	Cook Islands	240V	50 Hz
Armenia	220V	50 Hz	Costa Rica	120V	60 Hz
Aruba	127V	60 Hz	Cote d'Ivoire (Ivory Coast)	220V	50 Hz
Australia	240V	50 Hz	Croatia	230V	50 Hz
Austria	230V	50 Hz	Cuba	110/220V	60 Hz
Azerbaijan	220V	50 Hz	Cyprus	240V	50 Hz
Azores	220V	50 Hz	Czech Republic	230V	50 Hz
Bahamas	120V	60 Hz	Denmark	230V	50 Hz
Bahrain	230V	50 Hz	Djibouti	230V	50 Hz
Balearic Islands	220V	50 Hz	Dominica	230V	50 Hz
Bangladesh	220V	50 Hz	Dominican Republic	110V	60 Hz
Barbados	115V	50 Hz	East Timor	220V	50 Hz
Belarus	220V	50 Hz	Ecuador	120-127V	60 Hz
Belgium	230V	50 Hz	Egypt	220V	50 Hz
Belize	110/220V	60 Hz	El Salvador	115V	60 Hz
Benin	220V	50 Hz	Equatorial Guinea	220V	50 Hz
Bermuda	120V	60 Hz	Eritrea	230V	50 Hz
Bhutan	230V	50 Hz	Estonia	230V	50 Hz
Bolivia	220/230V	50 Hz	Ethiopia	220V	50 Hz
Bosnia	220V	50 Hz	Faeroe Islands	220V	50 Hz
Botswana	231V	50 Hz	Falkland Islands	240V	50 Hz
Brazil	110/220V	60 Hz	Fiji	240V	50 Hz
Brunei	240V	50 Hz	Finland	230V	50 Hz
Bulgaria	230V	50 Hz	France	230V	50 Hz
Burkina Faso	220V	50 Hz	French Guiana	220V	50 Hz
Burundi	220V	50 Hz	Gaza	230V	50 Hz
Cambodia	230V	50 Hz	Gabon	220V	50 Hz
Cameroon	220V	50 Hz	Gambia	230V	50 Hz
Canada	120V	60 Hz	Georgia	220V	50 Hz
Canary Islands	220V	50 Hz	Germany	230V	50 Hz
Cape Verde	220V	50 Hz	Ghana	230V	50 Hz
Cayman Islands	120V	60 Hz	Gibraltar	240V	50 Hz



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Greece	220V	50 Hz	Macedonia	220V	50 Hz
Greenland	220V	50 Hz	Madagascar	220V	50 Hz
Grenada	230V	50 Hz	Madeira	220V	50 Hz
Guadeloupe	230V	50 Hz	Malawi	230V	50 Hz
Guam	110V	60 Hz	Malaysia	240V	50 Hz
Guatemala	120V	60 Hz	Maldives	230V	50 Hz
Guinea	220V	50 Hz	Mali	220V	50 Hz
Guinea-Bissau	220V	50 Hz	Malta	240V	50 Hz
Guyana	240V	60 Hz	Martinique	220V	50 Hz
Haiti	110V	60 Hz	Mauritania	220V	50 Hz
Honduras	110V	60 Hz	Mauritius	230V	50 Hz
Hong Kong	220V	50 Hz	Mexico	127V	60 Hz
Hungary	230V	50 Hz	Micronesia	120V	60 Hz
Iceland	220V	50 Hz	Monaco	127/220V	50 Hz
India	230V	50 Hz	Mongolia	220V	50 Hz
Indonesia	127/230V	50 Hz	Montenegro	220V	50 Hz
Iran	230V	50 Hz	Montserrat	230V	60 Hz
Iraq	230V	50 Hz	Morocco	127/220V	50 Hz
Ireland	230V	50 Hz	Mozambique	220V	50 Hz
Isle of Man	240V	50 Hz	Myanmar	230V	50 Hz
Israel	220V	50 Hz	Namibia	220V	50 Hz
Italy	230V	50 Hz	Nauru	240V	50 Hz
Jamaica	110V	50 Hz	Nepal	230V	50 Hz
Japan	100V	50 Hz	Netherlands	230V	50 Hz
Jordan	230V	50 Hz	Netherlands Antilles	127/220V	50 Hz
Kenya	240V	50 Hz	New Caledonia	220V	50 Hz
Kazakhstan	220V	50 Hz	New Zealand	230V	50 Hz
Kiribati	240V	50 Hz	Nicaragua	120V	60 Hz
Korea, South	220V	60 Hz	Niger	220V	50 Hz
Kuwait	240V	50 Hz	Nigeria	240V	50 Hz
Laos	230V	50 Hz	Norway	230V	50 Hz
Latvia	220V	50 Hz	Okinawa	100V	60 Hz
Lebanon	110/220V	50 Hz	Oman	240V	50 Hz
Lesotho	220V	50 Hz	Pakistan	220V	50 Hz
Liberia	120V	60 Hz	Palmyra Atoll	120V	60 Hz
Libya	127V	50 Hz	Panama	110V	60 Hz
Lithuania	220V	50 Hz	Papua New Guinea	240V	50 Hz
Liechtenstein	230V	50 Hz	Paraguay	220V	50 Hz
Luxembourg	220V	50 Hz	Peru	220V	60 Hz
Macau	220V	50 Hz	Philippines	220V	60 Hz



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Poland	230V	50 Hz	Turkmenistan	220V	50 Hz
Portugal	230V	50 Hz	Uganda	240V	50 Hz
Puerto Rico	120V	60 Hz	Ukraine	220V	50 Hz
Qatar	240V	50 Hz	United Arab Emirates	220V	50 Hz
Reunion Island	220V	50 Hz	United Kingdom	230V	50 Hz
Romania	230V	50 Hz	United States of America	120V	60 Hz
Russia	220V	50 Hz	Uruguay	220V	50 Hz
Rwanda	230V	50 Hz	Uzbekistan	220V	50 Hz
St. Kitts and Nevis	230V	60 Hz	Vanuatu	230V	50 Hz
St. Lucia	240V	50 Hz	Venezuela	120V	60 Hz
St. Vincent	230V	50 Hz	Vietnam	127/220V	50 Hz
Samoa	230V	50 Hz	Virgin Islands	115V	60 Hz
Saudi Arabia	127/220V	60 Hz	Yemen	220/230V	50 Hz
Senegal	230V	50 Hz	Zambia	230V	50 Hz
Serbia	220V	50 Hz	Zimbabwe	220V	50 Hz
Seychelles	240V	50 Hz			
Sierra Leone	230V	50 Hz			
Singapore	230V	50 Hz			
Slovak Republic	230V	50 Hz			
Slovenia	220V	50 Hz			
Somalia	220V	50 Hz			
South Africa	220/230V	50 Hz			
Spain	230V	50 Hz			
Sri Lanka	230V	50 Hz			
Sudan	230V	50 Hz			
Suriname	127V	60 Hz			
Swaziland	230V	50 Hz			
Sweden	230V	50 Hz			
Switzerland	230V	50 Hz			
Syria	220V	50 Hz			
Tahiti	220V	50 Hz			
Tajikistan	220V	50 Hz			
Taiwan	110V	60 Hz			
Tanzania	230V	50 Hz			
Thailand	220V	50 Hz			
Togo	220V	50 Hz			
Tonga	240V	50 Hz			
Tinidad & Tobago	115V	60 Hz			
Tunisia	230V	50 Hz			
Turkey	230V	50 Hz			