

Country	Voltage / Frequency	Country	Voltage / Frequency	Country	Voltage / Frequency
Afghanistan	220V / 50Hz	Gibraltar	240V / 50Hz	No. Mariana Is.	115V / 60Hz
Algeria	127/220V / 50Hz	Greece	220-230V / 50Hz	Norfolk Is. (Aust.)	240V / 50Hz
American Samoa	120/240V / 60Hz	Greenland (Den.)	220V / 50Hz	Norway	220-230V / 50Hz
Andorra	220-230V / 50Hz	Grenada	230V / 50Hz	Okinawa	110-120V / 60Hz
Angola	220V / 50Hz	Guadeloupe	220V / 50Hz	Oman	240V / 50Hz
Anguilla	240V / 50Hz	Guam	110-120V / 60Hz	Pakistan	230V / 50Hz
Antigua	230V / 60Hz	Guatemala	120V / 60Hz	Panama	110-120V / 60Hz
Argentina	220V / 50Hz	Guinea	220V / 50Hz	Papua New Guinea	240V / 50Hz
Aruba	115/127V / 60Hz	Guinea-Bissau	220V / 50Hz	Paraguay	220V / 50Hz
Australia	240V / 50Hz	Guyana	110V / 50-60Hz	Peru	110-120V / 50/60Hz
Austria	220-230V / 50Hz	Haiti	110-120V / 50-60Hz	Philippines	115V / 60Hz
Azores	220-230V / 50Hz	Honduras	110V / 60Hz	Pitcairn Is. (U.K.)	240V / 50Hz
Bahamas	120V / 60Hz	Hong Kong	200V / 50Hz	Poland	220V / 50Hz
Bahrain	220V / 50Hz	Hungary	220V / 50Hz	Portugal	220-230V / 50Hz
Bangladesh	220V / 50Hz	Iceland	220V / 50Hz	Puerto Rico	120V / 60Hz
Barbados	115V / 50Hz	India	220-250V / 50Hz	Qatar	240V / 50Hz
Belarus	220V / 50Hz	Indonesia	220V / 50Hz	Romania	220V / 50Hz
Belgium	220-230V / 50Hz	Iran	220V / 50Hz	Russia	220V / 50Hz
Belize (Br.Hond.)	110V / 60Hz	Iraq	220V / 50Hz	Rwanda	220V / 50Hz
Benin	220V / 50Hz	Ireland	220V / 50Hz	Saudi Arabia	127-220V / 50/60Hz
Bermuda	120V / 60Hz	Isle of Man	240V / 50Hz	Scotland	220V / 50Hz
Bolivia	110-115/220V / 50Hz	Israel	230V / 50Hz	Senegal	220V / 50Hz
Bosnia-Herzegovina	220V / 50Hz	Italy	220-230V / 50Hz	Serbia	220V / 50Hz
Botswana	220V / 50Hz	Ivory Coast	220V / 50Hz	Seychelles	240V / 50Hz
Brazil	110-220V / 60Hz	Jamaica	110V / 50Hz	Sierra Leone	230V / 50Hz
Bulgaria	220V / 50Hz	Japan	100V / 50-60Hz	Singapore	230V / 50Hz
Burkina Faso	220V / 50Hz	Jordan	220V / 50Hz	Slovakia	220V / 50Hz
Burma	230V / 50Hz	Kenya	240V / 50Hz	Somalia	110-220V / 50Hz
Burundi	220V / 50Hz	Korea	220V / 50-60Hz	South Africa	220-250V / 50Hz
Cambodia	120-220V / 50Hz	Kuwait	240V / 50Hz	Spain	220-230V / 50Hz
Cameroon	220-230V / 50Hz	Laos	220V / 50Hz	Sri Lanka	230V / 50Hz
Canada	120V / 60Hz	Latvia	220V / 50Hz	St. Kitts & Nevis	230V / 60Hz
Canary Islands (Spain)	220V / 50Hz	Lebanon	110-120V / 50Hz	St. Lucia	240V / 50Hz
Cape Verde, Rep. of	220V / 50Hz	Lesotho	240V / 50Hz	St. Pierre & Miquelon	115V / 60Hz
Cayman Islands	120V / 60Hz	Lettonia	220V / 50Hz	St. Vincent	230V / 50Hz
Central African Rep.	220V / 50Hz	Liberia	120V / 60Hz	Sudan	240V / 50Hz
Chad	220V / 50Hz	Libya	127-230V / 50Hz	Surinam	115V / 60Hz
Channel Islands	240V / 50Hz	Liechtenstein	220V / 50Hz	Svalbard (Norway)	220V / 50Hz
Chile	220V / 50Hz	Lithuania	220V / 50Hz	Swaziland	230V / 50Hz
China, People's Rep. of	220V / 50Hz	Luxembourg	220-230V / 50Hz	Sweden	220-230V / 50Hz
Christmas Is. (Aust.)	240V / 50Hz	Macao	220V / 50Hz	Switzerland	220-230V / 50Hz
Cocos Is. (Austral.)	240V / 50Hz	Madagascar	220V / 50Hz	Syria	220V / 50Hz
Colombia	110-220V / 60Hz	Madeira (Portugal)	220V / 50Hz	Tahiti	220V / 50 Hz
Congo, Rep. of	220V / 50Hz	Majorca	220V / 50Hz	Taiwan	110V / 60Hz
Cook Island (N.Z.)	240V / 50Hz	Malawi	230V / 50Hz	Tanzania	230V / 50Hz
Costa Rica	120V / 60Hz	Malaysia	240V / 50Hz	Thailand	220-230V / 50Hz
Croatia	220V / 50Hz	Maldives	230V / 50Hz	Togo	220V / 50Hz
Cuba	120V / 60Hz	Mali, (Rep. of)	220V / 50Hz	Tonga	115V / 60Hz
Curacao Island	110-220V / 60Hz	Malta	240V / 50Hz	Trinidad & Tobago	115-230V / 60Hz
Cyprus	240V / 50Hz	Martinique	220V / 50Hz	Tunisia	220V / 50Hz
Czech Republic	220V / 50Hz	Mauritania	220V / 50Hz	Turkey	220V / 50Hz
Denmark	220-230V / 50Hz	Mauritius	230V / 50Hz	Uganda	240V / 50Hz
Djibouti, Rep. of	220V / 50Hz	Mexico	127V / 60Hz	Ukraine	220V / 50Hz
Dominica	230V / 50Hz	Moldova	220V / 50Hz	United Arab Emir.	220-230V / 50Hz
Dominican Rep.	110V / 60Hz	Monaco	220V / 50Hz	United Kingdom	240V / 50Hz
Ecuador	120V / 60Hz	Mongolia	220V / 50Hz	United States	120V / 60Hz
Egypt	220V / 50Hz	Montseurrat	230V / 60Hz	Uruguay	220V / 50Hz
El Salvador	115V / 60Hz	Morocco	220V / 50Hz	Venezuela	120V / 60Hz
England	240V / 50Hz	Mozambique	220V / 50Hz	Vietnam	120-220V / 50Hz
Equatorial Guinea	220V / 50Hz	Namibia (W.S. Africa)	220-250V / 50Hz	Virgin Islands	120V / 60Hz
Estonia	220V / 50Hz	Nepal	220V / 50Hz	Wales	220V / 50Hz
Ethiopia	220V / 50Hz	Neth. Antilles	120V / 60Hz	Western Samoa	230V / 50Hz
Fiji	240V / 50Hz	Netherlands	220-230V / 50Hz	Yemen	220V / 50Hz
Finland	220-230V / 50Hz	New Caledonia	220V / 50Hz	Yugoslavia (former)	220V / 50Hz
France	220-230V / 50Hz	New Guinea	220V / 50Hz	Zaire, Rep. of	220V / 50Hz
French Guyanda	220V / 50Hz	New Zealand	230V / 50Hz	Zambia	220V / 50Hz
Gabon	220V / 50Hz	Nicaragua	120V / 60Hz	Zimbabwe	220V / 50Hz
Gambia	220V / 50Hz	Niger	220V / 50Hz		
Germany	220-230V / 50Hz	Nigeria	230V / 50Hz		
Ghana	220V / 50Hz	No. Ireland	220V / 50Hz		



BSI 

United Kingdom 

BMSI 

Taiwan 

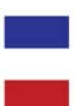
SEV 

Switzerland 

SEMKO 

Sweden 

Country	Page	P/N	Country	Page	P/N
A			Egypt	25	8002.079
Afghanistan	42	8580.098	El Salvador	5	2500.072
Albania	19	8500.098	England	26	9650.098
Algeria	32	8530.098	Equatorial Guinea	25	8002.079
Andorra	19	8500.098	Eritrea	19	8500.098
Angola	19	8500.098	Estonia	19	8500.098
Antigua and Barbuda	26	9650.098	Ethiopia	19	8500.098
Argentina	45	9000.098	F		
Armenia	19	8500.098	Faeroe Islands	19	8500.098
Aruba	19	8500.098	Falkland Islands	26	9650.098
Australia	32	8530.098	Fiji	32	8530.098
Austria	19	8500.098	Finland	19	8500.098
Azerbaijan	19	8500.098	France	19	8500.098
Azores	42	8580.098	French Guiana	19	8500.098
B			G		
Bahamas	5	2500.072	Gabon	19	8500.098
Bahrain	26	9650.098	Gambia	26	9650.098
Balearic Island	19	8500.098	Gaza	42	8580.098
Bangladesh	42	8580.098	Germany	19	8500.098
Barbados	5	2500.072	Ghana	26	9650.098
Belarus	19	8500.098	Gibraltar	26	9650.098
Belgium	19	8500.098	Greece	19	8500.098
Belize	5	2500.072	Greenland (Den.)	36	8540.098
Benin	42	8580.098	Greenland	26	9650.098
Bermuda	19	9650.098	Guadeloupe	19	8500.098
Bhutan	42	8580.098	Guam	5	2500.072
Bolivia	19	8500.098	Guatemala	5	2500.072
Bosnia and Herzegovina	19	8500.098	Guinea	19	8500.098
Botswana	26	9650.098	Guinea-Bissau	19	8500.098
Brazil	46	2500.072	Guyana	26	9650.098
Brunei	26	9650.098	H		
Bulgaria	19	8500.098	Haiti	5	2500.072
Burkina Faso	25	8002.079	Honduras	5	2500.072
Burma/Myanmar	26	9650.098	Hong Kong	26	9650.098
Burundi	19	8500.098	Hungary	19	8500.098
C			I		
Cambodia	25	8002.079	Iceland	19	8500.098
Cameroon	19	8500.098	India	42	8580.098
Canada	5	2500.072	Indonesia	19	8500.098
Canary Islands (Spain)	19	8500.098	Iran	19	8500.098
Cape Verde	19	8500.098	Iraq	26	9650.098
Cayman Islands	4	2500.072	Ireland	26	9650.098
Central African Republic	25	8002.079	Isle of Man	26	9650.098
Chad	19	8500.098	Israel	40	8560.098
Channel Islands	26	9650.098	Italy	38	8550.098
Chile	38	8550.098	J		
China	43	8590.098	Jamaica	5	2500.072
Christmas Island (Australia)	32	8530.098	Japan	29	2000.098
Cocos Islands (Australia)	32	8530.098	Jordan	26	9650.098
Colombia	30	2003.098	K		
Comoros	19	8500.098	Kazakhstan	19	8500.098
Congo, Democratic Republic of	25	8002.079	Kenya	26	9650.098
Cook Island (N.Z.)	32	8530.098	Kiribati	32	8530.098
Costa Rica	5	2500.072	Korea	35	8704.098
Cote d'Ivoire/Ivory Coast	25	8002.079	Krakozhia	19	8500.098
Croatia	19	8500.098	Kuwait	26	9650.098
Cuba	5	2500.072	L		
Curacao Island	19	8500.098	Laos	5	2500.072
Cyprus	26	9650.098	Latvia	19	8500.098
Czech Republic	19	8500.098	Lebanon	26	9650.098
D			Lesotho	42	8580.098
Denmark	36	8540.098	Lettonia	19	8500.098
Djibouti, Republic of	19	8500.098	Liberia	26	9650.098
Dominica	26	9650.098	Libya	38	8550.098
Dominican Republic	5	2500.072	Liechtenstein	37	8520.098
E					
East Timor	19	8500.098			
Ecuador	5	2500.072			



Country	Page	P/N	Country	Page	P/N
Lithuania	19	8500.098	Saint Pierre & Miquelon	19	8500.098
Luxembourg	19	8500.098	Saint Vincent	26	9650.098
M			Saudi Arabia	5	2500.072
Macao	42	8580.098	Scotland	26	9650.098
Macedonia	19	8500.098	Senegal	19	8500.098
Madagascar	19	8500.098	Serbia & Montenegro	19	8500.098
Madeira (Portugal)	19	8500.098	Seychelles	26	9650.098
Majorca	19	8500.098	Sierra Leone	26	9650.098
Malawi	26	9650.098	Singapore	26	9650.098
Malaysia	26	9650.098	Slovakia	19	8500.098
Maldives	42	8580.098	Slovenia	19	8500.098
Mali	19	8500.098	Somalia	19	8500.098
Malta	26	9650.098	South Africa	42	8580.098
Martinique	19	8500.098	Spain	19	8500.098
Mauritania	25	8002.079	Sri Lanka	42	8580.098
Mauritius	26	9650.098	Sudan	26	9650.098
Mexico	5	2500.072	Suriname	19	8500.098
Micronesia	5	2500.072	Svalbard (Norway)	19	8500.098
Moldova	19	8500.098	Swaziland	42	8580.098
Monaco	19	8500.098	Sweden	19	8500.098
Mongolia	25	8002.079	Switzerland	37	8520.098
Montseurrat	26	9650.098	Syria	19	8500.098
Morocco	19	8500.098	T		
Mozambique	19	8500.098	Tahiti	19	8500.098
N			Taiwan	5	2500.072
Namibia (W.S. Africa)	42	8580.098	Tajikistan	19	8500.098
Nauru	32	8530.098	Tanzania	26	9650.098
Nepal	42	8580.098	Thailand	5	2500.072
Netherlands	19	8500.098	Togo	19	8500.098
Neth.Antilles	25	8002.079	Tonga	42	8580.098
New Caledonia	19	8500.098	Trinidad and Tobago	26	9650.098
New Guinea	19	8500.098	Tunisia	25	8002.079
New Zealand	32	8530.098	Turkey	19	8500.098
Nicaragua	5	2500.072	Turkmenistan	19	8500.098
Niger	19	8500.098	U		
Nigeria	26	9650.098	Uganda	42	8580.098
No. Ireland	26	9650.098	Ukraine	19	8500.098
No. Mariana Island	5	2500.072	United Arab Emirates	26	9650.098
Norfolk Island (Australia)	32	8530.098	United Kingdom	26	9650.098
Norway	19	8500.098	United States	5	2500.072
O			Uruguay	32	8530.098
Okinawa	19	8500.098	Uzbekistan	19	8500.098
Oman	26	9650.098	V		
P			Vanuatu	32	8530.098
Pakistan	42	8580.098	Vatican	19	8500.098
Palmyra Atoll	5	2500.072	Venezuela	5	2500.072
Panama	5	2500.072	Vietnam	19	8500.098
Papua New Guinea	32	8530.098	Virgin Islands	5	2500.072
Paraguay	25	8002.079	W		
Peru	5	2500.072	Wales	26	9650.098
Philippines	5	2500.072	Western Samoa	32	8530.098
Pitcairn Islands (U.K.)	42	8580.098	Y		
Poland	19	8500.098	Yemen	26	9650.098
Portugal	19	8500.098	Yugoslavia (former)	19	8500.098
Puerto Rico	5	2500.072	Z		
Q			Zambia	26	9650.098
Qatar	26	9650.098	Zaire, Republic of	19	8500.098
R			Zimbabwe	26	9650.098
Reunion Island	19	8500.098			
Romania	19	8500.098			
Russia	19	8500.098			
Rwanda	25	8002.079			
S					
Saint Kitts and Nevis	26	9650.098			
Saint Lucia	26	9650.098			

