

VOLTAGE AND FREQUENCY OF POWER SOURCE BY COUNTRY

					ASIA/MIDDLE EAST
COUNTRY	COLOR SYSTEM		VOLTAGE (V)	FREQ. (Hz)	REMARKS
	VHF	UHF			
AFGHANISTAN	PAL-B		220	50	
UNITED ARAB EMIRATES	PAL-B	PAL-G	220	50	
YEMEN	PAL-B		230	50	
ISRAEL	PAL-B	PAL-G	230	50	
IRAQ	SECAM-B		220	50	
IRAN	SECAM-B		220	50	
INDIA	PAL-B		230	50	
INDONESIA	PAL-B	PAL-G	220	50	
OMAN	PAL-B	PAL-G	220	50	
QATAR	PAL-B		240	50	
CAMBODIA	PAL-B		120/220	50	
CYPRUS	SECAM-B	SECAM-G	240	50	
KUWAIT	PAL-B	PAL-G	240	50	
SAUDI ARABIA	SECAM-B	SECAM-G	127/220	50/60	
SYRIAN ARAB REPUBLIC	SECAM-B		115/220	50	
SINGAPORE	PAL-B	PAL-G	230	50	
SRI LANKA	PAL-B	PAL-G	230	50	
THAILAND	PAL-B	PAL-G	220	50	
TURKEY	PAL-B		220	50	
NEPAL	PAL-B		220	50	
BAHRAIN	PAL-B	PAL-G	230	50	
PAKISTAN	PAL-B		230	50	
BANGLADESH	PAL-B		220	50	
PHILIPPINES	NTSC-M	NTSC-M	230/240	60	
BHUTAN	No TV broadcasting		220	50	
BRUNEI DARUSSALAM	PAL-B		220	50	
VIETNAM	NTSC/SECAM-M		110/220	50	
HONG KONG		PAL-I	200	50	
MACAU	PAL-I		220	50	
MALAYSIA	PAL-B	PAL-G	240	50	
MYANMAR	NTSC-M		230	50	
MALDIVES	PAL-B		220	50	
MONGOLIA	SECAM-D		220	50	
JORDAN	PAL-B	PAL-G	220	50	
LAOS	PAL-M		220	50	
LEBANON	SECAM-B	SECAM-G	110/220	50	
REPUBLIC OF TAIWAN	NTSC-M	NTSC-M	110/220	60	
REPUBLIC OF KOREA	NTSC-M	NTSC-M	100/220	60	
CHINA	PAL-D	PAL-D	220	50	
JAPAN	NTSC-M	NTSC-M	100	50/60	
DEMOCRATIC PEOPLE'S REPUBLIC KOREA	SECAM-D		220	60	

					AFRICA
COUNTRY	COLOR SYSTEM		VOLTAGE (V)	FREQ. (Hz)	REMARKS
	VHF	UHF			
ALGERIA	PAL-B		220	50	
ANGOLA	PAL-I		220	50	
UGANDA	PAL-B		240/415	50	
EGYPT	SECAM-B	SECAM-G	220	50	
ETHIOPIA	PAL-B		127/220	50	
GHANA	PAL-B		220/240	50	
CAPE VERDE	Not Available		220	50	
GABON	SECAM-K1		220	50	
CAMEROON	PAL-B		220/230	50	
GAMBIA	PAL-B		230	50	
GUNEA-BISSAU	Not Available		220/380	50	
GUINEA	SECAM-K1		220/380	50	
KENYA	PAL-B		240	50	
COTE D'IVOIRE	SECAM-K1		220/380	50	
COMOROS	Not Available		220	50	
CONGO	SECAM-D		220	50	
ZAIRE		SECAM-K	220	50	
SAO TOME E PRINCIPE	PAL-B	PAL-G	220	50	
ZAMBIA	PAL-B		220	50	
SIERRA LEONE	PAL-B		230	50	
DJIBOUTI	SECAM-K1		220	50	
ZIMBABWE	PAL-B		220	50	
SUDAN	PAL-B		240	50	
SWAZILAND	PAL-B	PAL-G	220	50	
SEYCHELLES	PAL-B		240	50	
SENEGAL	SECAM-K1		220	50	
SOMALIA	PAL-B		230	50	
TANZANIA	PAL-B		230/440	50	
CHAD	SECAM-D		220	50	
TUNISIA	SECAM-B	SECAM-G	115/220/380	50	
TOGO		SECAM-K	127/220	50	
NIGERIA	PAL-B		230	50	
NAMIBIA	PAL-I				
NIGER	SECAM-K1		220/380	50	
BURKINA FASO	SECAM-K1		220	50	
BURUNDI	SECAM-K1		220	50	
BENIN	SECAM-K1		220	50	
BOTSWANA		SECAM-K	220	50	
MAYOTTE		SECAM-K	220	50	
MADAGASCAR	SECAM-K1		110/220	50	
MALAWI	PAL-B	PAL-G	230	50	
MALI	SECAM-K1		220	50	
MAURITIUS	SECAM-B		240	50	
MAURITANIA	SECAM-B		220/380	50	
MOZAMBIQUE	PAL-B		220	50	
MOROCCO	SECAM-B		127/220	50	
LIBERIA	PAL-B		120	60	
RWANDA	Not Available		220	50	
LESOTHO	PAL-I		240	50	
REUNION		SECAM-K	220	50	

					EUPORE
COUNTRY	COLOR SYSTEM		VOLTAGE (V)	FREQ. (Hz)	REMARKS
	VHF	UHF			
CIS	SECAM-D	SECAM-K	220	50	
ICELAND	PAL-B	PAL-G	220	50	
IRELAND	PAL-I	PAL-I	220	50	
ALBANIA	PAL-B	PAL-G	220	50	
ANDORRA	NTSC-M		220	50	
ITALY	PAL-B	PAL-G	220	50	
ESTONIA	SECAM-D	SECAM-K	230	50	
AUSTRIA	PAL-B	PAL-G	220	50	
THE NETHERLANDS	PAL-B	PAL-G	220	50	
GREECE	SECAM-B	SECAM-G	220	50	
UNITED KINGDOM	————	PAL-I	240	50	
CROATIA	PAL-B	PAL-H	220	50	
SAN MARINO	PAL-B	PAL-G	220	50	
SWITZERLAND	PAL-B	PAL-G	220	50	
SWEDEN	PAL-B	PAL-G	220	50	
SPAIN	PAL-B	PAL-G	220	50	
SLOVAKIA	SECAM-D	SECAM-K	220	50	
SLOVENIA	PAL-B	PAL-H	220	50	
CZECH REPUBLIC	SECAM-D	SECAM-K	220	50	
DENMARK	PAL-B	PAL-G	220	50	
GERMANY	PAL-B	PAL-G	230	50	
NORWAY	PAL-B	PAL-G	230	50	
VATICAN CITH STATE	Not Available		120/127	50	
HUNGARY	SECAM-D	SECAM-K	220	50	
FINLAND	PAL-B	PAL-G	220	50	
FAROE ISLANDS	PAL-B	PAL-G	220	50	
FRANCE	SECAM-L	SECAM-L	220	50	
BULGARIA	SECAM-D	SECAM-K	220	50	
BELGIUM	PAL-B	PAL-H	220	50	
POLAND	PAL-D	PAL-K	220	50	
BOSNIA-HERCEGOVINA	PAL-B	PAL-H	220	50	
PORTUGAL	PAL-B	PAL-G	220	50	
MACEDONIA	PAL-B	PAL-H	220	50	
MALTA	PAL-B	PAL-G	230	50	
MONACO	SECAM-L	PAL-G	220	50	
YUGOSLAVIA	PAL-B	PAL-G	220	50	
LATVIA	SECAM-D	SECAM-K	220	50	
LITHUANIA	SECAM-D	SECAM-K	220	50	
ROMANIA	PAL-D	PAL-K	220	50	
LUXEMBOURG	PAL-B	SECAM-L	110/220	50	

NORTH/SOUTH AMERICA

COUNTRY	COLOR SYSTEM		VOLTAGE (V)	FREQ. (Hz)	REMARKS
	VHF	UHF			
UNITED STATES OF AMERICA	NTSC-M	NTSC-M	120	60	
ARGENTINA	PAL-N		220	50	
ANTIGUA & BARBUDA	NTSC-M		220	60	
URUGUAY	PAL-N		220	50	
ECUADOR	NTSC-M		120	60	
EL SALVADOR	NTSC-M		120	60	
GUYANA	NTSC-M		120/240	50/60	
CANADA	NTSC-M	NTSC-M	120	60	
CUBA	NTSC-M		120	60	
GUATEMALA	NTSC-M		120	60	
GREENLAND	PAL-B		220	50	
GRENADA	NTSC-M		220	50	
COSTA RICA	NTSC-M		120	60	
COLOMBIA	NTSC-M		120	60	
JAMAICA	NTSC-M		110/220	50	
SURINAME	NTSC-M		110/220	60	
ST. KITTS & NEVIS	NTSC-M		220	60	
ST. VINCENT & THE GRENADINES	NTSC-M		230	50	
ST. LUCIA	NTSC-M		440	50	
CHILE	NTSC-M		220	50	
DOMINICAN REPUBLIC	NTSC-M		110	60	
DOMINICA	NTSC-M		240	50	
TRINIDAD & TOBAGO	NTSC-M		120	60	
NICARAGUA	NTSC-M		120	60	
HAITI	NTSC-M		110/220	50/60	
PANAMA	NTSC-M		120	60	
BAHAMAS	NTSC-M		120/220	60	
BERMUDA	NTSC-M		115/230	60	
PARAGUAY	PAL-N		220	50	
BARBADOS	NTSC-M		110/220	50	
PUERTO RICO	NTSC-M	NTSC-M	120	60	
FALKLAND ISLANDS	PAL-I		220	50	
BRAZIL	PAL-M	PAL-M	120/220	60	
GUIANA	SECAM-K		127/220	50	
VENEZUELA	NTSC-M		120	60	
BELIZE	NTSC-M		110/220	60	
PERU	NTSC-M		220	60	
BOLIVIA	NTSC-M		120/220	60	
HONDURAS	NTSC-M		110	60	
MEXICO	NTSC-M	NTSC-M	127	60	