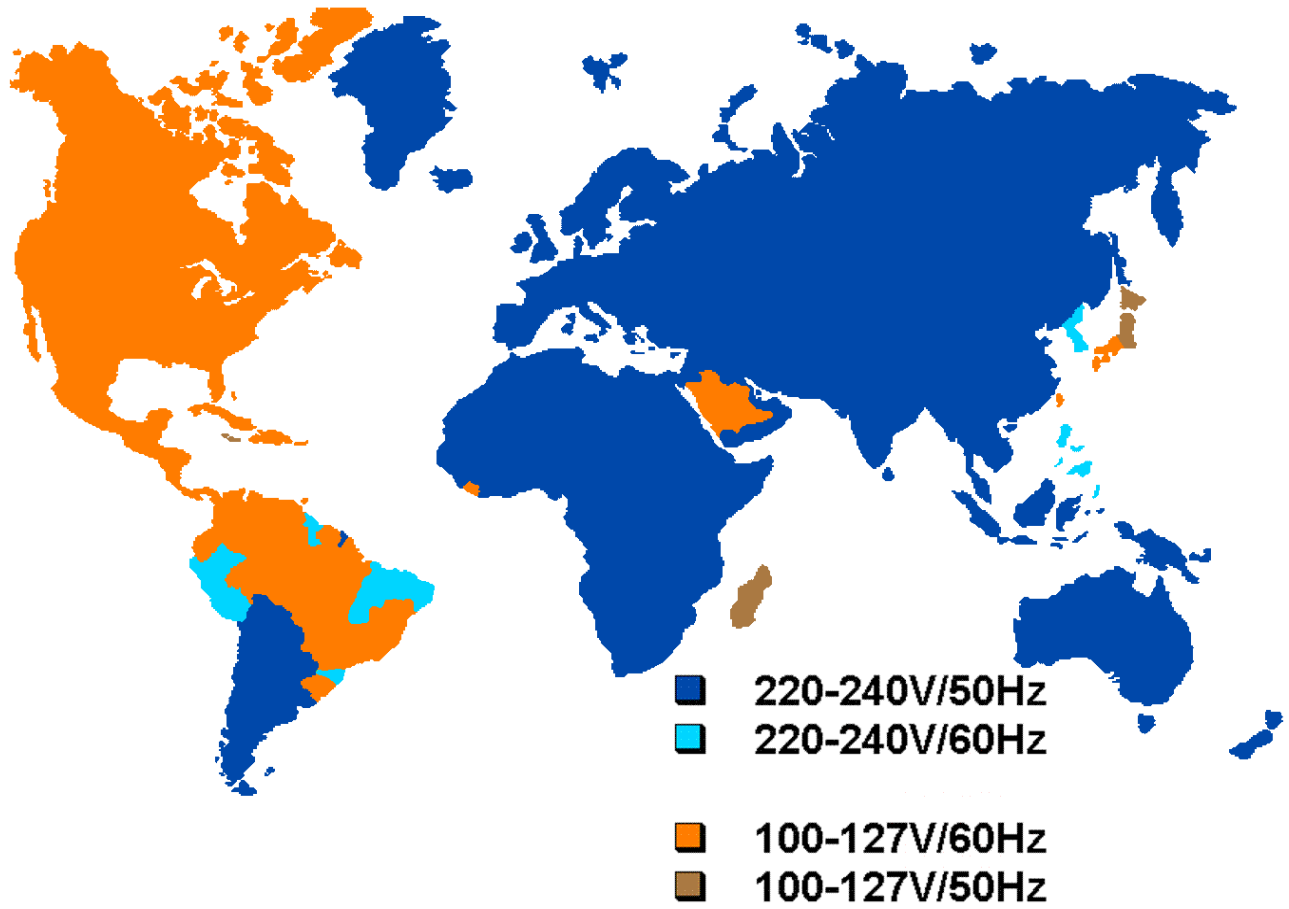
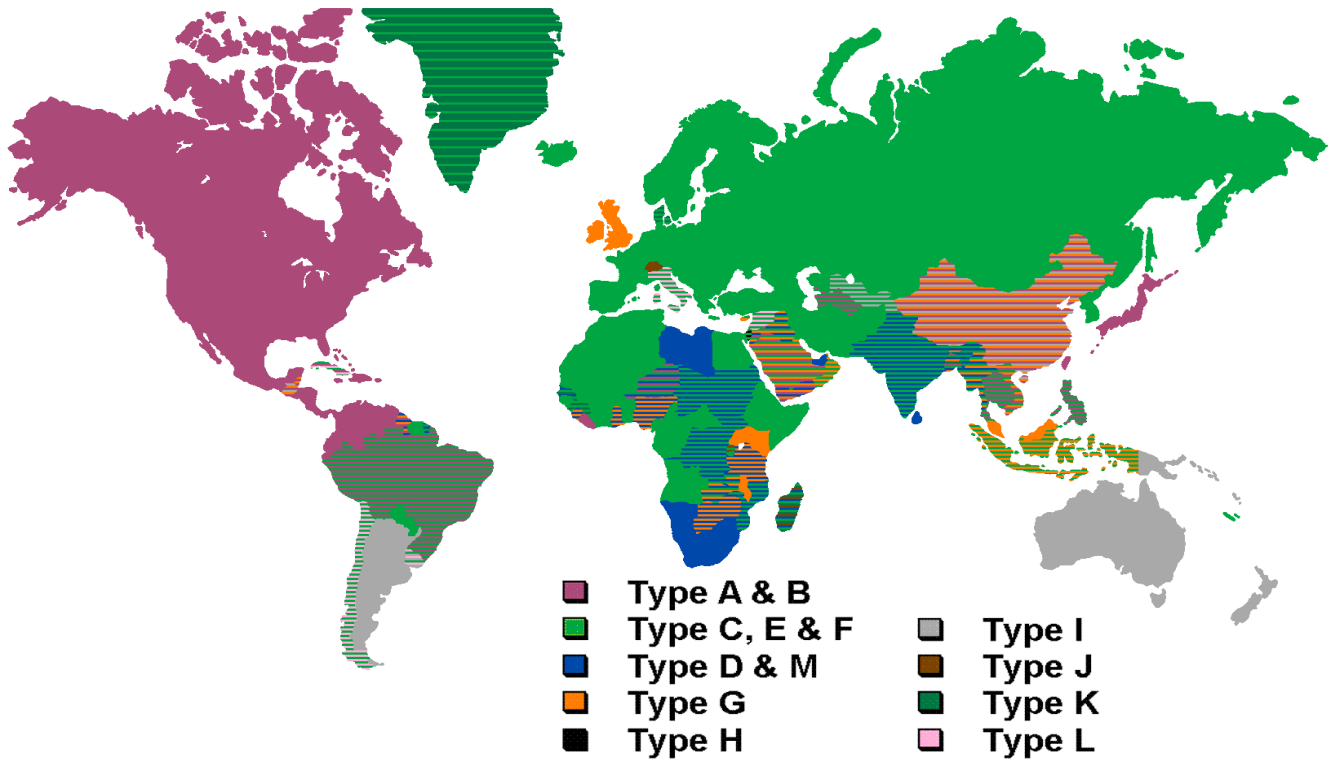




SURGEX Global Voltage Chart





COUNTRY	SINGLE-PHASE VOLTAGE	FREQUENCY	SOCKET TYPE
Afghanistan	220 V	50 Hz	<u>C</u> / <u>F</u>
Albania	230 V	50 Hz	<u>C</u> / <u>F</u>
Algeria	230 V	50 Hz	<u>C</u> / <u>F</u>
American Samoa	120 V	60 Hz	<u>A</u> / <u>B</u> / <u>F</u> / <u>I</u>
Andorra	230 V	50 Hz	<u>C</u> / <u>F</u>
Angola	220 V	50 Hz	<u>C</u>
Anguilla	110 V	60 Hz	<u>A</u>
Antigua	230 V	60 Hz	<u>A</u> / <u>B</u>
Argentina	220 V	50 Hz	<u>C</u> / <u>I</u> *
Armenia	230 V	50 Hz	<u>C</u> / <u>F</u>
Aruba	120 V	60 Hz	<u>A</u> / <u>B</u> / <u>F</u>
Australia	240 V	50 Hz	<u>I</u>
Austria	230 V	50 Hz	<u>C</u> / <u>F</u>
Azerbaijan	220 V	50 Hz	<u>C</u> / <u>F</u>
Azores	230 V	50 Hz	<u>B</u> / <u>C</u> / <u>F</u>
Bahamas	120 V	60 Hz	<u>A</u> / <u>B</u>
Bahrain	230 V	50 Hz	<u>G</u>
Balearic Islands	230 V	50 Hz	<u>C</u> / <u>F</u>
Bangladesh	220 V	50 Hz	<u>C</u> / <u>D</u> / <u>G</u> / <u>K</u>

Barbados	115 V	50 Hz	<u>A/B</u>
Belarus	220 V	50 Hz	<u>C/F</u>
Belgium	230 V	50 Hz	<u>E</u>
Belize	110 V / 220 V	60 Hz	<u>B/G</u>
Benin	220 V	50 Hz	<u>E</u>
Bermuda	120 V	60 Hz	<u>A/B</u>
Bhutan	230 V	50 Hz	<u>D/F/G</u>
Bolivia	230 V	50 Hz	<u>A/C</u>
Bosnia & Herzegovina	230 V	50 Hz	<u>C/F</u>
Botswana	230 V	50 Hz	<u>D/G</u>
Brazil	127 V / 220 V <u>*</u>	60 Hz	<u>A/B/C/I</u>
Brunei	240 V	50 Hz	<u>G</u>
Bulgaria	230 V	50 Hz	<u>C/F</u>
Burkina Faso	220 V	50 Hz	<u>C/E</u>
Burundi	220 V	50 Hz	<u>C/E</u>
Cambodia	230 V	50 Hz	<u>A/C/G</u>
Cameroon	220 V	50 Hz	<u>C/E</u>
Canada	120 V	60 Hz	<u>A/B</u>
Canary Islands	230 V	50 Hz	<u>C/E/L</u>
Cape Verde	230 V	50 Hz	<u>C/F</u>
Cayman Islands	120 V	60 Hz	<u>A/B</u>
Central African Republic	220 V	50 Hz	<u>C/E</u>
Chad	220 V	50 Hz	<u>D/E/F</u>
Channel Islands (Guernsey & Jersey)	230 V	50 Hz	<u>C/G</u>
Chile	220 V	50 Hz	<u>C/L</u>
China, People's Republic of	220 V	50 Hz	<u>A/C/I</u>
Colombia	110 V	60 Hz	<u>A/B</u>
Comoros	220 V	50 Hz	<u>C/E</u>
Congo, People's Rep. of	230 V	50 Hz	<u>C/E</u>
Congo, Dem. Rep. of (<i>formerly Zaire</i>)	220 V	50 Hz	<u>C/D</u>
Cook Islands	240 V	50 Hz	<u>I</u>
Costa Rica	120 V	60 Hz	<u>A/B</u>
Côte d'Ivoire (Ivory Coast)	220 V	50 Hz	<u>C/E</u>
Croatia	230 V	50 Hz	<u>C/F</u>
Cuba	110 V / 220 V	60 Hz	<u>A/B/C/L</u>
Cyprus	230 V	50 Hz	<u>G/F**</u>
Czech Republic	230 V	50 Hz	<u>E</u>
Denmark	230 V	50 Hz	<u>C/E/K</u>
Djibouti	220 V	50 Hz	<u>C/E</u>
Dominica	230 V	50 Hz	<u>D/G</u>

Dominican Republic	120 V	60 Hz	<u>A</u> / <u>B</u>
East Timor	220 V	50 Hz	<u>C</u> / <u>E</u> / <u>F</u> / <u>I</u>
Ecuador	110 V	60 Hz	<u>A</u> / <u>B</u>
Egypt	220 V	50 Hz	<u>C</u> / <u>F</u>
El Salvador	115 V	60 Hz	<u>A</u> / <u>B</u> / <u>C</u> / <u>D</u> / <u>E</u> / <u>F</u> / <u>G</u> / <u>I</u> / <u>J</u> / <u>L</u>
Equatorial Guinea	220 V	50 Hz	<u>C</u> / <u>E</u>
Eritrea	230 V	50 Hz	<u>C</u> / <u>L</u>
Estonia	230 V	50 Hz	<u>C</u> / <u>F</u>
Ethiopia	220 V	50 Hz	<u>C</u> / <u>F</u>
Faeroe Islands	230 V	50 Hz	<u>C</u> / <u>K</u>
Falkland Islands	240 V	50 Hz	<u>G</u>
Fiji	240 V	50 Hz	<u>I</u>
Finland	230 V	50 Hz	<u>C</u> / <u>F</u>
France	230 V	50 Hz	<u>E</u>
French Guyana	220 V	50 Hz	<u>C</u> / <u>D</u> / <u>E</u>
Gabon	220 V	50 Hz	<u>C</u>
Gambia	230 V	50 Hz	<u>G</u>
Gaza	230 V	50 Hz	<u>H</u>
Georgia	220 V	50 Hz	<u>C</u> / <u>F</u>
Germany	230 V	50 Hz	<u>C</u> / <u>F</u>
Ghana	230 V	50 Hz	<u>D</u> / <u>G</u>
Gibraltar	230 V	50 Hz	<u>C</u> / <u>G</u>
Greece	230 V	50 Hz	<u>C</u> / <u>F</u>
Greenland	230 V	50 Hz	<u>C</u> / <u>K</u>
Grenada (Windward Islands)	230 V	50 Hz	<u>G</u>
Guadeloupe	230 V	50 Hz	<u>C</u> / <u>D</u> / <u>E</u>
Guam	110 V	60 Hz	<u>A</u> / <u>B</u>
Guatemala	120 V	60 Hz	<u>A</u> / <u>B</u> / <u>G</u> / <u>I</u>
Guinea	220 V	50 Hz	<u>C</u> / <u>F</u> / <u>K</u>
Guinea-Bissau	220 V	50 Hz	<u>C</u>
Guyana	240 V	60 Hz	<u>A</u> / <u>B</u> / <u>D</u> / <u>G</u>
Haiti	110 V	60 Hz	<u>A</u> / <u>B</u>
Honduras	110 V	60 Hz	<u>A</u> / <u>B</u>
Hong Kong	220 V	50 Hz	<u>G</u>
Hungary	230 V	50 Hz	<u>C</u> / <u>F</u>
Iceland	230 V	50 Hz	<u>C</u> / <u>F</u>
India	230 V	50 Hz	<u>C</u> / <u>D</u> / <u>M</u>
Indonesia	230 V	50 Hz	<u>C</u> / <u>F</u>
Iran	230 V	50 Hz	<u>C</u> / <u>F</u>
Iraq	230 V	50 Hz	<u>C</u> / <u>D</u> / <u>G</u>

Ireland (Eire)	230 V	50 Hz	<u>G</u>
Isle of Man	230 V	50 Hz	<u>C / G</u>
Israel	230 V	50 Hz	<u>H / C</u>
Italy	230 V	50 Hz	<u>C / F / L</u>
Jamaica	110 V	50 Hz	<u>A / B</u>
Japan	100 V	50 Hz / 60 Hz <u>**</u>	<u>A / B</u>
Jordan	230 V	50 Hz	<u>C / D / F / G / J</u>
Kenya	240 V	50 Hz	<u>G</u>
Kazakhstan	220 V	50 Hz	<u>C / F</u>
Kiribati	240 V	50 Hz	<u>I</u>
Korea, North	110 V / 220 V	60 Hz	<u>A / C</u>
Korea, South	110V / 220 V	60 Hz	<u>A / B / C / F</u>
Kuwait	240 V	50 Hz	<u>C / G</u>
Kyrgyzstan	220 V	50 Hz	<u>C / F</u>
Laos	230 V	50 Hz	<u>A / B / C / E / F</u>
Latvia	230 V	50 Hz	<u>C / F</u>
Lebanon	230 V	50 Hz	<u>C / D / G</u>
Lesotho	220 V	50 Hz	<u>M</u>
Liberia	120 V	60 Hz	<u>A / B</u>
Libya	127 V / 230 V	50 Hz	<u>D / F</u>
Liechtenstein	230 V	50 Hz	<u>J</u>
Lithuania	230 V	50 Hz	<u>C / F</u>
Luxembourg	230 V	50 Hz	<u>C / F</u>
Macau	220 V	50 Hz	<u>D / G</u>
Macedonia	230 V	50 Hz	<u>C / F</u>
Madagascar	127 V / 220 V	50 Hz	<u>C / D / E / J / K</u>
Madeira	230 V	50 Hz	<u>C / F</u>
Malawi	230 V	50 Hz	<u>G</u>
Malaysia	240 V	50 Hz	<u>G</u>
Maldives	230 V	50 Hz	<u>D / G / J / K / L</u>
Mali	220 V	50 Hz	<u>C / E</u>
Malta	230 V	50 Hz	<u>G</u>
Martinique	220 V	50 Hz	<u>C / D / E</u>
Mauritania	220 V	50 Hz	<u>C</u>
Mauritius	230 V	50 Hz	<u>C / G</u>
Mexico	127 V	60 Hz	<u>A</u>
Micronesia, Federal States of	120 V	60 Hz	<u>A / B</u>
Moldova	230 V	50 Hz	<u>C / F</u>
Monaco	230 V	50 Hz	<u>C / D / E / F</u>
Mongolia	230 V	50 Hz	<u>C / E</u>

Montenegro	230 V	50 Hz	<u>C</u> / <u>F</u>
Montserrat (Leeward Islands)	230 V	60 Hz	<u>A</u> / <u>B</u>
Morocco	220 V	50 Hz	<u>C</u> / <u>E</u>
Mozambique	220 V	50 Hz	<u>C</u> / <u>F</u> / <u>M</u>
Myanmar (<i>formerly Burma</i>)	230 V	50 Hz	<u>C</u> / <u>D</u> / <u>F</u> / <u>G</u>
Namibia	220 V	50 Hz	<u>D</u> / <u>M</u>
Nauru	240 V	50 Hz	<u>I</u>
Nepal	230 V	50 Hz	<u>C</u> / <u>D</u> / <u>M</u>
Netherlands	230 V	50 Hz	<u>C</u> / <u>F</u>
Netherlands Antilles	127 V / 220 V	50 Hz	<u>A</u> / <u>B</u> / <u>F</u>
New Caledonia	220 V	50 Hz	<u>F</u>
New Zealand	240 V	50 Hz	<u>I</u>
Nicaragua	120 V	60 Hz	<u>A</u>
Niger	220 V	50 Hz	<u>A</u> / <u>B</u> / <u>C</u> / <u>D</u> / <u>E</u> / <u>F</u>
Nigeria	230 V	50 Hz	<u>D</u> / <u>G</u>
Norway	230 V	50 Hz	<u>C</u> / <u>F</u>
Oman	240 V	50 Hz	<u>C</u> / <u>G</u>
Pakistan	230 V	50 Hz	<u>C</u> / <u>D</u>
Palau	120 V	60 Hz	<u>A</u> / <u>B</u>
Panama	110 V	60 Hz	<u>A</u> / <u>B</u>
Papua New Guinea	240 V	50 Hz	<u>I</u>
Paraguay	220 V	50 Hz	<u>C</u>
Peru	220 V	60 Hz	<u>A</u> / <u>B</u> / <u>C</u>
Philippines	220 V	60 Hz	<u>A</u> / <u>B</u> / <u>C</u>
Poland	230 V	50 Hz	<u>C</u> / <u>E</u>
Portugal	230 V	50 Hz	<u>C</u> / <u>F</u>
Puerto Rico	120 V	60 Hz	<u>A</u> / <u>B</u>
Qatar	240 V	50 Hz	<u>D</u> / <u>G</u>
Réunion Island	230 V	50 Hz	<u>E</u>
Romania	230 V	50 Hz	<u>C</u> / <u>F</u>
Russian Federation	220 V	50 Hz	<u>C</u> / <u>F</u>
Rwanda	230 V	50 Hz	<u>C</u> / <u>J</u>
St. Kitts and Nevis (Leeward Islands)	230 V	60 Hz	<u>D</u> / <u>G</u>
St. Lucia (Windward Islands)	230 V	50 Hz	<u>G</u>
St. Vincent (Windward Islands)	230 V	50 Hz	<u>A</u> / <u>C</u> / <u>E</u> / <u>G</u> / <u>I</u> / <u>K</u>
Samoa	230 V	50 Hz	<u>I</u>
San Marino	230 V	50 Hz	<u>F</u> / <u>L</u>
Saudi Arabia	110 V / 220 V <u>***</u>	60 Hz	<u>A</u> / <u>B</u> / <u>C</u> / <u>G</u>
Senegal	230 V	50 Hz	<u>C</u> / <u>D</u> / <u>E</u> / <u>K</u>
Serbia	230 V	50 Hz	<u>C</u> / <u>F</u>

Seychelles	240 V	50 Hz	<u>G</u>
Sierra Leone	230 V	50 Hz	<u>D / G</u>
Singapore	230 V	50 Hz	<u>G</u>
Slovakia	230 V	50 Hz	<u>E</u>
Slovenia	230 V	50 Hz	<u>C / F</u>
Somalia	220 V	50 Hz	<u>C</u>
South Africa	230 V	50 Hz	<u>D / M ***</u>
Spain	230 V	50 Hz	<u>C / F</u>
Sri Lanka	230 V	50 Hz	<u>D / G / M</u>
Sudan	230 V	50 Hz	<u>C / D</u>
Suriname	127 V	60 Hz	<u>C / F</u>
Swaziland	230 V	50 Hz	<u>M</u>
Sweden	230 V	50 Hz	<u>C / F</u>
Switzerland	230 V	50 Hz	<u>J</u>
Syria	220 V	50 Hz	<u>C / E / L</u>
Tahiti	220 V	50 Hz / 60 Hz****	<u>C / E</u>
Tajikistan	220 V	50 Hz	<u>C / F</u>
Taiwan	110 V	60 Hz	<u>A / B</u>
Tanzania	230 V	50 Hz	<u>D / G</u>
Thailand	220 V	50 Hz	<u>A / B / C</u>
Togo	220 V	50 Hz	<u>C</u>
Tonga	240 V	50 Hz	<u>I</u>
Trinidad & Tobago	115 V	60 Hz	<u>A / B</u>
Tunisia	230 V	50 Hz	<u>C / E</u>
Turkey	230 V	50 Hz	<u>C / F</u>
Turkmenistan	220 V	50 Hz	<u>C / F</u>
Turks and Caicos Islands	120 V	60 Hz	<u>A / B</u>
Uganda	240 V	50 Hz	<u>G</u>
Ukraine	230 V	50 Hz	<u>C / F</u>
United Arab Emirates	240 V	50 Hz	<u>G</u>
United Kingdom	230 V	50 Hz	<u>G</u>
United States of America	120 V	60 Hz	<u>A / B</u>
Uruguay	220 V	50 Hz	<u>C / F / I / L</u>
Uzbekistan	220 V	50 Hz	<u>C / F</u>
Venezuela	120 V	60 Hz	<u>A / B</u>
Vietnam	220 V	50 Hz	<u>A / C / G</u>
Virgin Islands	110 V	60 Hz	<u>A / B</u>
Yemen, Rep. of	230 V	50 Hz	<u>A / D / G</u>
Zambia	230 V	50 Hz	<u>C / D / G</u>
Zimbabwe	240 V	50 Hz	<u>D / G</u>

FF, 2010.05.10