

# 세계 각국의 표준전압

※ 다음은 세계 각국의 표준전압으로 수출입 업무시 참고하시기 바랍니다.

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COUNTRY	VOLTAGE	FREQUENCY	PLUG	COMMENTS
Afghanistan	220V	50Hz	C & F*	* A UN correspondent reports C and F common in Kabul, but it's likely a variety of plugs may be used around the country. Some sources report Type D also in use. Other reports indicate voltage variances from 160V to 280V.
Albania	220V*	50Hz	C & F	* Voltage variations common
Algeria	230V	50Hz	C* & F	* A variation of Type C with a ground post offset about 1/2-inch from center may also be found.
American Samoa	120V	60Hz	A, B, F & I	
Angola	220V	50Hz	C	
Anguilla	110V	60Hz	A(maybe B)	
Antigua	230V*	60Hz	A & B	* Airport area is reportedly Antigua power is 110v.
Argentina	220V	50Hz	C & I*	* Neutral and line wires are reversed from that used in Australia and elsewhere. Click here for more.
Armenia	220V	50Hz	C & F	
Aruba	127V*	60Hz	A, B & F	* Lago Colony 115V
Australia	230V*	50Hz	I	Outlets typically controlled by adjacent switch. Though nominal voltage has been officially changed to 230V, 240V is within tolerances and commonly found.
Austria	230V	50Hz	C, F	
Azerbaijan	220V	50Hz	C, F	
Azores	220V*	50Hz	B, C & F	* Ponta Delgada 110V; to be converted to 220V
Bahamas	120V	60Hz	A & B	

COUNTRY	VOLTAGE	FREQUENCY	PLUG	COMMENTS
Bahrain	230V*	50Hz*	G	* Awali 110V, 60 Hz
Balearic Islands	220V	50Hz	C & F	
Bangladesh	220V	50Hz	A, C, D, G & K	
Barbados	115V	50Hz	A, B	
Belgium	230V	50Hz	E	Notes from correspondents: a 'C' style plug can be used with 'E' and 'F' receptacles. All double-insulated appliances are indeed fitted with a 'C' plug, and can be used in any compatible receptacle (C E F and narrow L). Type C receptacles are prohibited in Belgium.
Belize	110/220V	60Hz	B & G	
Benin	220V	50Hz	E	
Bermuda	120V	60Hz	A & B	
Bhutan	230V	50Hz	D, F & G	Type M plugs also identified by some sources.
Bolivia	220/230V*	50Hz	A & C	* La Paz & Viacha 115V
Bosnia	220V	50Hz	C & F	
Botswana	231V	50Hz	G & M	
Brazil	110/220V*	60Hz	A & B, C	* 127V found in states of Bahia, Paraná (including Curitiba), Rio de Janeiro, São Paulo and Minas Gerais (though 220V may be found in some hotels). Other areas are 220V only, with the exception of Fortaleza (240V). Outlets are often a combination of type A and C and can accept either type plug
Brunei	240V	50Hz	G	
Bulgaria	230V	50Hz	C* & F*	* Outlets are reported as type F, though both type C and F plugs may be encountered.
Burkina Faso	220V	50Hz	C & E	
Burundi	220V	50Hz	C & E	
Cambodia	230V	50Hz	A & C*	* Some outlets are a combination of type A and C and can accept either type plug. Plug G may be found in some hotels.
Cameroon	220V	50Hz	C, E	

COUNTRY	VOLTAGE	FREQUENCY	PLUG	COMMENTS
Canada	120V	60Hz	A & B	
Canary Islands	220V	50Hz	C, E & L	Type L plugs/outlets may have different pin spacing. The smaller and closer pins are for a rated current of 10 A, the bigger and wider pins are for a rated current of 16 A.
Cape Verde	220V	50Hz	C & F	
Cayman Islands	120V	60Hz	A & B	
Central African Republic	220V	50Hz	C & E	
Chad	220V	50Hz	D, E & F	
Channel Islands	240V*	50Hz	C & G	* Guernsey 230V
Chile	220V	50Hz	C & L	
China, People's Rep. of	220V	50Hz	A, I, G	The "official" plug type is like type A but slightly shorter and without holes in blades. Type A and I outlets are common and Type G might also be found. Click here for photos and more info.
Colombia	110V	60Hz	A & B	
Comoros	220V	50Hz	C & E	
Congo, People's Rep. of	230V	50Hz	C & E	
Congo, Dem. Rep. of (former Zaire)	220V	50Hz	C & D	
Cook Islands	240V	50Hz	I	
Costa Rica	120V	60Hz	A & B	
Côte d'Ivoire (Ivory Coast)	220V	50Hz	C & E	
Croatia	230V	50Hz	C & F	
Cuba	110/220V	60Hz	A & B, C & L	Most older hotels 110V. Some newer hotels 220V. Some outlets are a combination of type A and C and can accept either type plug.
Cyprus	240V	50Hz	G	
Czech Republic	230V	50Hz	E	
Denmark	230V	50Hz	C & K	Denmark's connectors have slight

COUNTRY	VOLTAGE	FREQUENCY	PLUG	COMMENTS
				differences from those used elsewhere. While pin diameter and spacing is standard, outlets may have different housing depths which could interfere with standard adaptors -- one report says this is due to "childproofing." Also, Plug C fits into K-type outlets (but not vice versa).
Djibouti	220V	50Hz	C & E	
Dominica	230V	50Hz	D & G	
Dominican Republic	110V	60Hz	A	
East Timor	220V	50Hz	C, E, F, I	A UN correspondent reports "power is poor in the country with frequent brownouts and blackouts. I suspect that surges are frequent as we go through a lot of surge-protecting power bars." Further he reports than Type I is common as much construction is done by Australians; type C is common in building built during Indonesian occupation; type E is less common; type F is common in offices but not hotels.
Ecuador	120-127V	60Hz	A & B	
Egypt	220V	50Hz	C	
El Salvador	115V	60Hz	A & B, C, D, E, F, G, I, J & L	
Equatorial Guinea	220V*	50Hz	C & E	* Voltage varies between 150 & 175V with frequent outages
Eritrea	230V	50Hz	C	
Estonia	230V	50Hz	F	Type C may be found in older buildings. Type E plugs may work in either C or F type outlets.
Ethiopia	220V	50Hz	D, J & L	
Faeroe Islands	220V	50Hz	C & K	
Falkland Islands	240V	50Hz	G	
Fiji	240V	50Hz	I	
Finland	230V	50Hz	C & F	
France	230V	50Hz	E	Type C plugs may be found on some appliances, and will fit the Type E outlet. Type C outlets may be found in older buildings. Type A may be found in

COUNTRY	VOLTAGE	FREQUENCY	PLUG	COMMENTS
				older buildings but is illegal.
French Guiana	220V	50Hz	C, D & E	
Gaza	230V	50Hz	H	
Gabon	220V	50Hz	C	
Gambia	230V	50Hz	G	
Germany	230V	50Hz	C & F	
Ghana	230V	50Hz	D & G	
Gibraltar	240V	50Hz	C & G	
Greece	220V	50Hz	C, D, E & F	
Greenland	220V	50Hz	C & K	
Grenada (Windward Is.)	230V	50Hz	G	
Guadeloupe	230V	50Hz	C, D & E	
Guam	110V	60Hz	A & B	
Guatemala	120V	60Hz	A, B, G & I	
Guinea	220V	50Hz	C, F & K	
Guinea-Bissau	220V	50Hz	C	
Guyana	240V*	60Hz*	A B D & G	* Inside the capital city of Georgetown, both 120V and 240V at either 50 or 60Hz are found, depending on the part of the city (50Hz most common). Actual voltage may vary from area to area.
Haiti	110V	60Hz	A & B	
Honduras	110V	60Hz	A & B	
Hong Kong	220V*	50Hz	G & M	Type M replaced by Type G but still found.
Hungary	230V	50Hz	C & F	
Iceland	220V	50Hz	C & F	
India	240V	50Hz	D & C	<a href="#">Click here for photos and more info.</a>
Indonesia	127/230V*	50Hz	C, F & G	* Conversion to 230V in progress; complete in principal cities
Iran	230V	50Hz	C	
Iraq	230V	50Hz	C, D & G	

COUNTRY	VOLTAGE	FREQUENCY	PLUG	COMMENTS
Ireland (Eire)	230V	50Hz	G	
Isle of Man	240V	50Hz	C & G	
Israel	230V	50Hz	H & C	* Many (but not all) modern electric outlets in Israel have larger holes that accept both Type H and C plugs. Some extension cords and older outlets accept only the Type H plug. One correspondent estimates a 50-70% chance that a randomly selected outlet will accept Type C.
Italy	230V	50Hz	C, E, F & L	Type L plugs/outlets may have different pin spacing. The smaller and closer pins are for a rated current of 10 A, the bigger and wider pins are for a rated current of 16 A. Both kinds are currently used and comply to the relevant Italian (CEI) regulations. Some outlets have overlapping holes to accept either older or newer types.
Jamaica	110V	50Hz	A & B	
Japan	100V	50/60Hz*	A, B	* Eastern Japan 50Hz (Tokyo, Kawasaki, Sapporo, Yokohama, and Sendai); Western Japan 60Hz (Osaka, Kyoto, Nagoya, Hiroshima)
Jordan	230V	50Hz	D, F, G & J	
Kenya	240V	50Hz	G	
Kazakhstan	220V	50Hz	C	
Kiribati	240V	50Hz	I	
Korea, South	220V	60Hz	C & F*	* Type F likely to be found in offices and hotels. 110V power with plugs A & B was previously used but is being phased out. Older buildings may still have this, and some hotels offer both 110V and 220V service.
Kuwait	240V	50Hz	C & G	
Laos	230V	50Hz	A, B, C, E & F	
Latvia	220V	50Hz	C & F	
Lebanon	230V	50Hz	A, B, C, D & G	
Lesotho	220V	50Hz	M	

COUNTRY	VOLTAGE	FREQUENCY	PLUG	COMMENTS
Liberia	120V	60Hz	A & B	
Libya	127V*	50Hz	D	* Barce, Benghazi, Derna, Sebha & Tobruk 230V
Lithuania	220V	50Hz	C & E	
Liechtenstein	230V	50Hz	J	
Luxembourg	220V	50Hz	C & F	
Macau	220V	50Hz	D & G	
Macedonia	220V	50Hz	C & F	
Madagascar	127/220V	50Hz	C, D, E, J & K	
Madeira	220V	50Hz	C & F	
Malawi	230V	50Hz	G	
Malaysia	240V*	50Hz	G	
Maldives	230V	50Hz	A, D, G, J, K & L	
Mali	220V	50Hz	C & E	
Malta	240V	50Hz	G	
Martinique	220V	50Hz	C, D & E	
Mauritania	220V	50Hz	C	
Mauritius	230V	50Hz	C & G	
Mexico	127V	60Hz	A	
Micronesia (Federal States of)	120V	60Hz	A & B	
Monaco	127/220V	50Hz	C, D, E, F	
Mongolia	230V		C & E	
Montserrat (Leeward Is.)	230V	60Hz	A & B	
Morocco	127/220V*	50Hz	C & E	* Conversion to 220V only underway
Mozambique	220V	50Hz	C, F & M*	* Type M found especially near the border with South Africa, including the capitol, Maputo.
Myanmar (formerly Burma)	230V	50Hz	C, D, F & G*	Type G* found primarily in better hotels. Also, many of major hotels chains are said to have multipurpose outlets, which will take Australian 3-pin plugs and perhaps other types.
Namibia	220V	50Hz	D	

COUNTRY	VOLTAGE	FREQUENCY	PLUG	COMMENTS
Nauru	240V	50Hz	I	
Nepal	230V	50Hz	C & D	
Netherlands	230V	50Hz	C & F	
Netherlands Antilles	127/220V*	50Hz	A, B, & F*	St. Martin 120V 60 Hz; Saba &(St. Eustatius 110V 60 Hz A, maybe B
New Caledonia	220V	50Hz	F	
New Zealand	230V	50Hz	I	
Nicaragua	120V	60Hz	A	
Niger	220V	50Hz	A, B, C, D, E & F	
Nigeria	240V	50Hz	D & G	
Norway	230V	50Hz	C & F	
Okinawa	100V*	60Hz	A, B & I	* Military facilities 120V
Oman	240V*	50Hz	C & G	* Voltage variations common
Pakistan	230V	50Hz	C & D	
Palmyra Atoll	120V	60Hz	A & B	
Panama	110V*	60Hz	A, B	* Panama City 120V
Papua New Guinea	240V	50Hz	I	
Paraguay	220V	50Hz	C	
Peru	220V*	60Hz*	A, B & C	* Talara 110/220V; Arequipa 50 Hz
Philippines	220V*	60Hz	A, B, C	
Poland	230V	50Hz	C & E	
Portugal	220V	50Hz	C & F	
Puerto Rico	120V	60Hz	A & B	
Qatar	240V	50Hz	D & G	
Reunion Island	220V	50Hz	E	
Romania	230V	50Hz	C & F	
Russian Federation	220V	50Hz	C	A correspondent notes: "Plug type E can also be used (because the mains outlets do not have the protruding pin). Plug type F can sometimes be used but with reservation because in many places the mains outlet will not allow to connect such plug as the outlets have smaller hole diameters than F-plug pins.

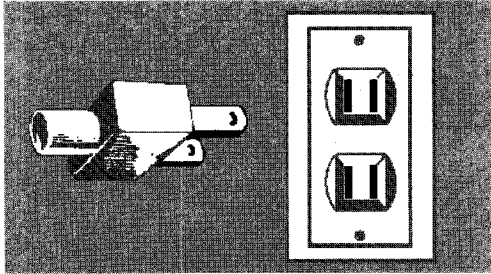


COUNTRY	VOLTAGE	FREQUENCY	PLUG	COMMENTS
Rwanda	230V	50Hz	C & J	
St. Kitts and Nevis (Leeward Is.)	230V	60Hz	D & G	
St. Lucia (Windward Is.)	240V	50Hz	G	
St. Vincent (Windward Is.)	230V	50Hz	A, C, E, G, I & K	
Saudi Arabia	127/220V	60Hz	A, B, F & G	
Senegal	230V	50Hz	C, D, E & K	
Serbia-Montenegro	220V	50Hz	C & F	
Seychelles	240V	50Hz	G	
Sierra Leone	230V	50Hz	D & G	
Singapore	230V	50Hz	G	Type A adaptors are widely available from shops as an extension set of 2 to 5 sets of sockets; most commonly used for audio and video equipment.
Slovak Republic	230V	50Hz	E	
Slovenia	220V	50Hz	C & F	
Somalia	220V*	50Hz	C	* Berbera 230V; Merca 110/220V
South Africa	220/230V*	50Hz	M	* Grahamstad & Port Elizabeth 250V; also found in King Williams
Spain	230V	50Hz	C & F	
Sri Lanka	230V	50Hz	D	
Sudan	230V	50Hz	C & D	
Suriname	127V	60Hz	C & F	
Swaziland	230V	50Hz	M	
Sweden	230V	50Hz	C & F	
Switzerland	230V	50Hz	J	Type C plugs are common on appliances, and will fit the Type J outlet.
Syria	220V	50Hz	C, E & L	
Tahiti	110/220V	60Hz	A, B, E	Information is based mainly on hotel experiences reported by travelers.
Tajikistan	220V	50Hz	C & I	
Taiwan	110V	60Hz	A, B	
Tanzania	230V	50Hz	D & G	

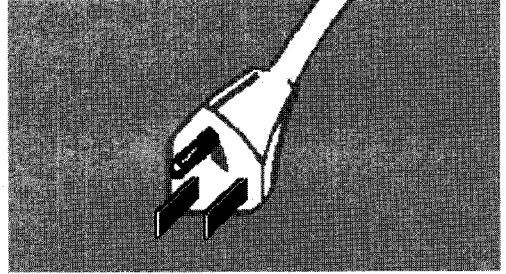
COUNTRY	VOLTAGE	FREQUENCY	PLUG	COMMENTS
Thailand	220V	50Hz	A & C*	* Some outlets are a combination of type A and C and can accept either type plug.
Togo	220V*	50Hz	C	* Lome 127V
Tonga	240V	50Hz	I	
Trinidad & Tobago	115V	60Hz	A & B	
Tunisia	230V	50Hz	C & E	
Turkey	230V	50Hz	C & F	
Turkmenistan	220V	50Hz	B & F	
Uganda	240V	50Hz	G	
Ukraine	220V	50Hz	C	
United Arab Emirates	220V*	50Hz	C, D & G	
United Kingdom	230V*	50Hz	G	* Outlets typically controlled by adjacent switch. Though nominal voltage has been officially changed to 230V, 240V is within tolerances and commonly found.
United States of America	120V	60Hz	A & B	
Uruguay	220V	50Hz	C, F, I* & L	Type F becoming more common as a result of computer use. *Neutral and line wires are reversed from that used in Australia and elsewhere. Click here for more.
Uzbekistan	220V	50Hz	C & I	
Venezuela	120V	60Hz	A & B	
Vietnam	127/220V*	50Hz	A, C & G	* To be standardized at 220V. Type G found in newer hotels, primarily those built by Singaporean and Hong Kong developers.
Virgin Islands (British and U.S.)	110V	60Hz	A & B	
Western Samoa	230V	50Hz	I	
Yemen, Rep. of	220/230V	50Hz	A, D & G	
Yugoslavia(Former)	220V	50Hz	C & F	
Zambia	230V	50Hz	C, D & G	
Zimbabwe	220V	50Hz	D & G	

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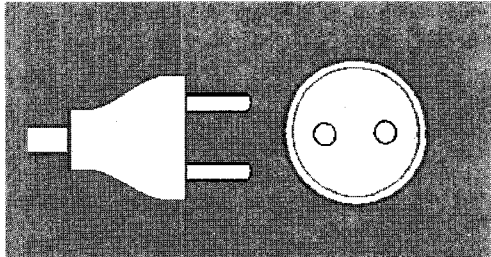
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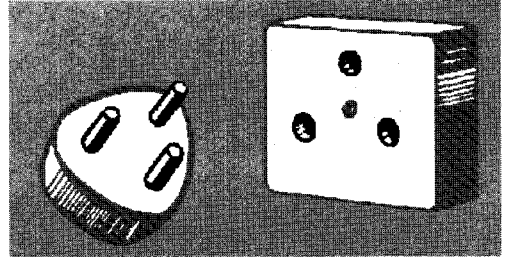
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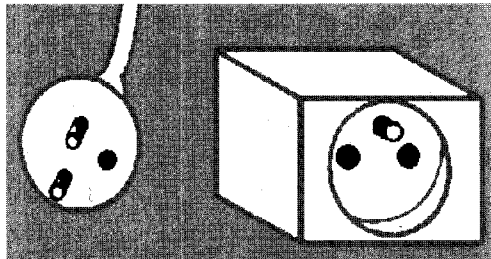
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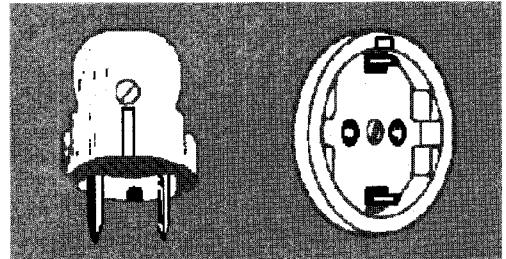
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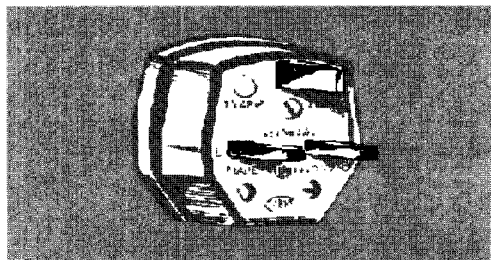
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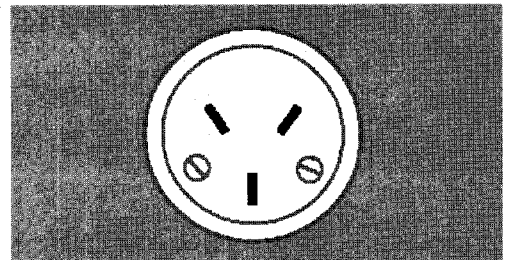
6) F



7) G

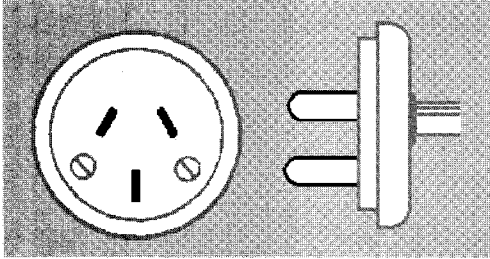


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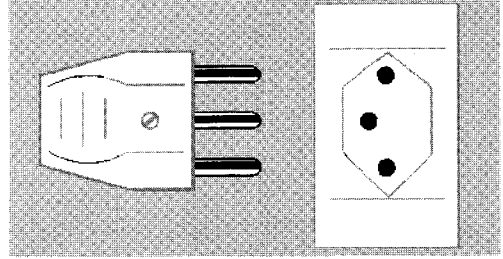


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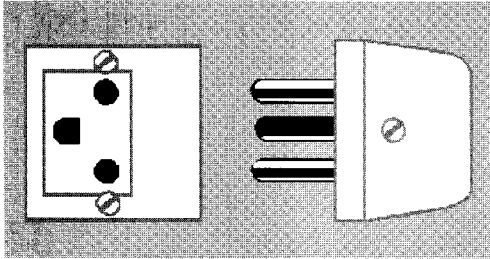
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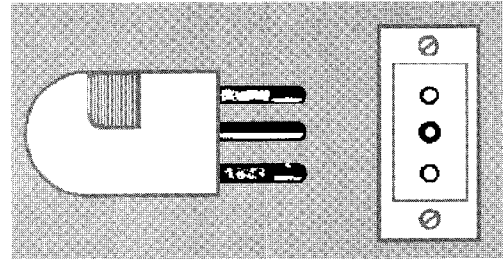
10) J



11) K



12) L



13) M

