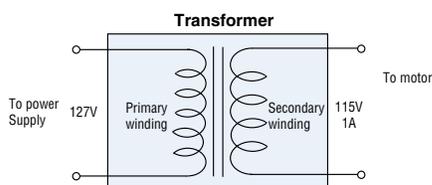


Global Power Supply Voltage

Country	Frequency	Voltage
U.S.A.	60Hz	Single-Phase 115V/230VAC, Three-Phase 230VAC
Canada	60Hz	Single-Phase 120V/347VAC, Three-Phase 208V/240V/600VAC
Austria	50Hz	Single-Phase 230VAC, Three-Phase 400VAC
Belgium	50Hz	Single-Phase 230VAC, Three-Phase 400VAC
Bulgaria	50Hz	Single-Phase 220VAC, Three-Phase 380VAC
Czechoslovakia	50Hz	Single-Phase 220VAC, Three-Phase 380VAC
Denmark	50Hz	Single-Phase 230VAC, Three-Phase 400VAC
Finland	50Hz	Single-Phase 230VAC, Three-Phase 400VAC
France	50Hz	Single-Phase 230VAC, Three-Phase 400VAC
Germany	50Hz	Single-Phase 230VAC, Three-Phase 400VAC
Greece	50Hz	Single-Phase 230VAC, Three-Phase 400VAC
Hungary	50Hz	Single-Phase 220VAC, Three-Phase 380VAC
Italy	50Hz	Single-Phase 220VAC, Three-Phase 380VAC
Luxembourg	50Hz	Single-Phase 230VAC, Three-Phase 400VAC
Netherlands	50Hz	Single-Phase 230VAC, Three-Phase 400VAC
Norway	50Hz	Single-Phase 220V/230VAC, Three-Phase 380VAC
Poland	50Hz	Single-Phase 220VAC, Three-Phase 380VAC
Portugal	50Hz	Single-Phase 230VAC, Three-Phase 400V/480VAC
Rumania	50Hz	Single-Phase 220VAC, Three-Phase 380VAC
Spain	50Hz	Single-Phase 127V/220VAC, Three-Phase 220V/380VAC
Sweden	50Hz	Single-Phase 230V/400VAC, Three-Phase 400V/690VAC
Switzerland	50Hz	Single-Phase 230VAC, Three-Phase 400VAC
United Kingdom	50Hz	Single-Phase 240VAC, Three-Phase 415VAC
Japan	50/60Hz	Single-Phase 100V/200VAC, Three-Phase 200VAC
Korea	60Hz	Single-Phase 110V/220VAC, Three-Phase 200V/220V/380VAC
Taiwan	60Hz	Single-Phase 110V/220VAC, Three-Phase 220V/380VAC
Hong Kong	50Hz	Single-Phase 200V/220VAC, Three-Phase 346V/380VAC
Singapore	50Hz	Single-Phase 230VAC, Three-Phase 400VAC
Malaysia	50Hz	Single-Phase 240VAC, Three-Phase 415VAC

Power Supply Voltage and Motor Rated Voltage

Line voltage varies from country to country and, in some places, from city to city. The line voltages and frequencies of major countries are shown in the table above. Oriental Motor offers motors and fans for worldwide use. Our wide range of products includes those that meet American voltage specifications as well as those that meet Japanese and European voltage specifications. If a motor is to be used with a different power supply voltage than specified, a transformer must be connected between the power supply and the motor. The primary winding of the transformer should be of the same voltage as the power source, and the secondary winding voltage should be the same as the voltage rating of the motor or fan.



The transformer should be rated for a current of at least twice the rated motor current to allow for the current peak at motor start. The transformer should also possess stable transforming characteristics.