

Mains Connection Schemes

Country	Local frequency	Local voltage (domestic applications)	Phase L1	Phase L2	Phase L3	Neutral	1-ph	3-ph
Albania	50 Hz	230 / 400 V	L1	L2	L3	N		x
Argentina	50 Hz	220 / 380 V	L1	L2	L3	N		x
Australia	50 Hz	230 / 400 V	L1			N	x	
Azerbaijan	50 Hz	230 / 400 V	L1	L2	L3	N		x
Bahrain	50 Hz	230 / 400 V	L1	L2	L3	N		x
Bosnia and Herzegovina	50 Hz	230 / 400 V	L1	L2	L3	N		x
Brazil	60 Hz	110 / 220 V	L1			L2	x	
		220 / 400 V	L1			N	x	
		127 / 220 V	L1			L2	x	
		220 / 380 V	L1	L2	L3	N		x
Cayman Islands	60 Hz	120 / 240 V	L1			L2	x	
Chile	50 Hz	220 / 380 V	L1	L2	L3	N		x
China	50 Hz	127 / 220 V	L1			L2	x	
		220 / 380 V	L1	L2	L3	N		x
Colombia	60 Hz	110 / 220 V	L1			L2	x	
Eurasian Customs Union (Belarus, Kazakhstan, Russia)	50 Hz	230 / 400 V	L1	L2	L3	N		x
French Polynesia (Tahiti)	60 Hz	220 V	L1			N	x	
Hong Kong	50 Hz	220 / 380 V	L1	L2	L3	N		x
India	50 Hz	220 / 380 V						
		230 / 400 V	L1	L2	L3	N		x
		240 / 415 V						
Indonesia	50 Hz	127 / 220 V	L1			L2	x	
		220 / 380 V	L1	L2	L3	N		x
Iran	50 Hz	230 / 400 V	L1	L2	L3	N		x
Israel	50 Hz	230 / 400 V	L1	L2	L3	N		x
Jamaica	50 Hz	110 / 220 V	L1			L2	x	
Japan	50 / 60 Hz	200 V	L1			L2	x	
Jordan	50 Hz	220 / 380 V	L1	L2	L3	N		x
Kuwait	50 Hz	240 / 415 V	L1	L2	L3	N		x
Laos	50 Hz	230 / 400 V	L1	L2	L3	N		x
Lebanon	50 Hz	220 / 380 V	L1	L2	L3	N		x
Malaysia	50 Hz	240 / 415 V	L1	L2	L3	N		x
Macedonia	50 Hz	230 / 400 V	L1	L2	L3	N		x
Mauritius	50 Hz	230 / 400 V	L1	L2	L3	N		x
New Zealand	50 Hz	230 / 400 V	L1			N	x	

Country	Local frequency	Local voltage (domestic applications)	Phase L1	Phase L2	Phase L3	Neutral	1-ph	3-ph
Oman	50 Hz	220 / 380 V	L1	L2	L3	N		x
		240 / 415 V						
Pakistan	50 Hz	230 / 400 V	L1	L2	L3	N		x
Panama	60 Hz	220 V	L1			L2	x	
Qatar	50 Hz	240 / 415 V	L1	L2	L3	N		x
Saudi Arabia	60 Hz	127 / 220 V	L1			L2	x	
		220 / 380 V	L1			N	x	
Singapore	50 Hz	240 / 415 V	L1			N	x	
South Africa	50 Hz	230 / 400 V	L1	L2	L3	N		x
South Korea	60 Hz	220 / 380 V	L1			N	x	
Sri Lanka	50 Hz	230 / 400 V	L1	L2	L3	N		x
Taiwan	60 Hz	110 / 220 V	L1			L2	x	
		220 / 440 V	L1			N	x	
Thailand	50 Hz	220 / 380 V	L1	L2	L3	N		x
Ukraine	50 Hz	230 / 400 V	L1	L2	L3	N		x
United Arab Emirates	50 Hz	220 / 380 V	L1	L2	L3	N		x
		240 / 415 V						
Uruguay	50 Hz	230 / 400 V	L1	L2	L3	N		x
Vietnam	50 Hz	127 / 220 V	L1			L2	x	
		220 / 380 V	L1	L2	L3	N		x

Region	Country	Local frequency	Local voltage (domestic applications)	Phase L1	Phase L2	Phase L3	Neutral	1-ph	3-ph
Europe (without Norway and UK)		50 Hz	230 / 400 V	L1			N	x	
				L1	L2	L3	N		x
	Norway	50 Hz	110 V	L1			N	x	
			230 / 400 V	L1	L2	L3	N		x
	UK	50 Hz	240 / 415 V	L1			N	x	