

530 Power

Grounding

Caution A proper earth ground is required for GC operations.

To protect users, the metal instrument panels and cabinet are grounded through the three-conductor power line cord in accordance with International Electrotechnical Commission (IEC) requirements.

The three-conductor power line cord, when plugged into a properly grounded receptacle, grounds the instrument and minimizes shock hazard. A properly grounded receptacle is one that is connected to a suitable earth ground. Proper receptacle grounding should be verified.

Make sure the GC is connected to a dedicated receptacle. Use of a dedicator receptacle reduces interference.

Caution Any interruption of the grounding conductor or disconnection of the power cord could cause a shock that could result in personal injury.

Line voltage

The GC operates from one of the AC voltage supplies listed in Table 530-1, depending on the standard voltage of the country from which it was ordered. GCs are designed to work with a specific voltage; make sure your GC voltage option is appropriate for your lab. The voltage requirements for your GC are printed near the power cord attachment.

Table 530-1 Line Voltage Requirements

Voltage	Maximum power consumption (VA)	Power line requirement	Oven type
120 V (±5%)	2,250	20-amp dedicated	Slow-heating
200 V (±5%)	2,950	15-amp dedicated	Fast-heating
220 V (±5%)	2,950	15-amp dedicated	Fast-heating
230 V (±5%)	2,950	16-amp dedicated	Fast-heating
230 V (±5%)	2,250	10-amp dedicated	Slow-heating
(Switzerland or Denmark with 10-amp maximum service)			
240 V (±5%)	2,950	13- or 16-amp dedicated	Fast-heating

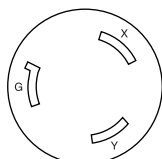
Frequency range for all voltages is 48 to 66 Hz.

The fast-heating oven requires at least 200 V. Most countries' standard voltage meets this requirement. GCs for use in the USA, Denmark, and Switzerland will be equipped with a slow-heating oven unless they are ordered with power option 002, which specifies a fast-heating oven.

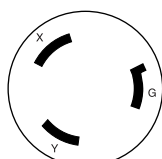
Although your GC should arrive ready for operation in your country, compare its voltage requirements with those listed in Table 530-2. If the voltage option you ordered is not suitable for your installation, contact Agilent Technologies.

USA fast heating oven

The fast heating oven requires 240 V/15A power. Do not use 208 V power. Lower voltage causes slow oven ramps and prevents proper temperature control. The power cord supplied with your GC is rated for 250 V/15A, and is a two pole, three wire cord with grounding (type L6-15R/L6-15P).



Receptacle
L6-15R



Plug
L6-15P














The fast-heating oven requires at least 200 V. Most countries' standard voltage meets this requirement. GCs intended for use in the USA, Denmark and Switzerland will be equipped with a slow-heating oven unless they are ordered with power option 002, which equips the GC with a fast-heating oven.




Canadian installation

When installing a GC in Canada, make sure your GC's power supply circuit meets the following additional requirements:

- The circuit breaker for the branch circuit, which is dedicated to the instrument, must be rated for continuous operation.
- The service box branch circuit must be marked as a "Dedicated Circuit."

Table 530-2 Voltages and Line Cord Terminations by Country

Country	Power cord termination	Voltage	Oven type
Australia, 10 amp		240 V	Regular
Australia, 15 amp		240 V	Fast
China, 10 amp		220 V	Regular
China, 16 amp		220 V	Fast
Continental Europe		220 V	Fast
Continental Europe		230 V	Fast
Denmark, 10 amp		230 V	Regular
Denmark and Switzerland, 16 amp		230 V	Fast
Switzerland, 10 amp		230 V	Regular
Hong Kong		220 V	Fast
India, South Africa		240 V	Fast
Israel		230 V	Fast
Japan		200 V	Fast

United Kingdom		240 V	Fast
USA		120 V	Regular
USA		240 V	Fast
