HP Z4 G6i Site Prep Guide



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Introduction

The Z4 G6i has been designed to deliver support for the latest processor, memory, graphics, and storage technologies. There are two 92% efficiency-rated power supplies that qualify for 80 PLUS PLATINUM status*.

* The 80 PLUS specification states that all PLATINUM power supplies achieve at least 90%/92%/89% efficiency at 115V and 92%/94%/90% efficiency at 230V for 20%/50%/100% of rated output, respectively.

Power consumption and cooling considerations

An HP workstation might require more power than the typical office environment can supply.

- A 1350W fully loaded configuration might draw up to the system's maximum rating of 15A at 110V power, leaving no power for other accessories.
- An office air conditioning system must accommodate the extra heat generated by fully loaded workstation configurations.
- Some environments might have power quality problems that prevent the reliable use of high-end workstation configurations. Possible problems include power failure, voltage sag, voltage surge, voltage spike, brownout, line noise, frequency variation, and switching transient and harmonic distortion.
- If your workstation is powered from a >200V source and you meet the HP configuration guidelines, you will not need an uninterruptible power supply (UPS) to achieve maximum power output.

Power consumption limitations

- The Z4 G6i 1350W power supplies are capable of multiple output power wattages depending on the input voltage. It is not recommended to operate in an environment that drops below 90V for any reason (for example, brownout or line sag) as the AC brown out voltage detection circuit for the power supply may be triggered and shut the PSU down unexpectedly. A UPS is highly recommended to achieve maximum output power when used at 100V.

Input Voltage and Maximum Output Power Summary

	Z4 G6i maximum power output			
Input voltage	<90V	>90V	>104V	>180V
1350W PSU	Not recommended	1200W	1350W	1700W
775W PSU	Not recommended	775W	775W	775W

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Uninterruptible power supply (UPS)

- What is a power interruption?

  A power interruption can take the form of a power failure (blackout), voltage sag, voltage surge, voltage spike, brownout (drop), line noise, frequency variation, and switching transient and harmonic distortion.

- What is an uninterruptible power supply (UPS)?

  A UPS provides power when the primary source is unavailable or insufficient. It keeps the computer powered on and operational in the event of a power interruption.

  There are three types of UPS – standby/offline, line Interactive, and online continuous. A standby/offline UPS enables the computer to draw power from the main AC power source until there is a power interruption. It protects against power surges, brownouts, and power failures.

  A line interactive UPS protects against power problems, power failure, sags, surges, brownouts, and line noise. The supply offers voltage regulation by bumping the mains voltage up or down. This feature improves the quality of AC power to the supported load, reduces the number of transfers to and from battery mode, reduces the number of brief power interruptions to the load when switching to and from battery mode, and improves battery life.

  An online continuous UPS is the most dependable solution. It is also referred to as a double-conversion UPS. It provides protection against power failures, sags, surges, brownouts, line noise, spikes, frequency variations, switching transients, and harmonic distortion. The inverter is always on and supplies the supported load with clean, regulated power, and the incoming power is always fully conditioned. Constant voltage and frequency regulation significantly reduce switching to and from the battery, increasing the life and reliability of the UPS.

- How do you select a UPS?

  Use a UPS for a fully loaded workstation configuration that operates in a poor power grid area. The UPS must be rated at least 2kVA for the 1350W PSU. If operating at 200V/1700W a 2.3kVA UPS is required. A UPS is necessary because without line conditioning to guarantee the minimum input voltage the maximum output power is limited. See Power Consumption on page 4 for configurations and maximum power estimates.

  HP recommends an online continuous UPS that provides a layer of insulation from quality problems. The type of supply also allows control of output voltage and frequency regardless of input voltage and frequency. To reach the 1350W of output power, you must maintain 115V, ideally.

  CAUTION! Check with your power provider to see if your facility can reliably maintain greater than 90V power. If 90V cannot be guaranteed to your workstation, the input voltage source might blow the fuse in the power supply or trip the breaker. For reliable workstation operation under heavy loading, use a UPS because it provides reliable voltage levels.

- To reduce risk of a power interruption:

  - Do not exceed the rated load of any single power supply (PSU). For maximum voltage/current ratings, refer to the product's ratings label.

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- Only use HP Approved Power Cords
- In general, verify that each power source circuit can safely provide the current needed for equipment that draws power from it.

Power consumption for the HP Z4 G6i Workstation

The following table contains typical system configurations[1] for an HP Z4 G6i Workstation.

1 CPU[2]	2 Midrange Graphics cards 50W-75W each[3]	2 High-End Graphics cards 75W-150W each[3]	2 High-End Graphics cards 150W-300W each[3]
280W-300W	730W-780W	780W-930W	950W-1250W
250W-275W	700W-750W	750W-900W	920W-1220W
200W-210W	625W-675W	675W-825W	845W-1145W
150W-180W	590W-640W	640W-790W	810W-1110W

[1] All configurations have one CPU, 8 Registered DIMMs, 4 storage devices, and typical additional expansion cards. Configuring fewer hard drives or expansion cards has some impact on power.

Power consumption is highly dependent on software utilization. The table values represent examples of maximum power consumption per configuration and may not represent actual usage.

[2] For maximum power consumed per CPU, go to http://www.hp.com/go/quickspecs/ and search for your specific workstation to find the model-specific QuickSpecs.

[3] For maximum power consumed per graphics card, go to http://www.hp.com/go/quickspecs/ and search for your specific workstation to find the model-specific QuickSpecs.

Power cord

	All PSU options have a C14 appliance connector:

Only use HP Approved Power Cords

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Cooling considerations

To ensure proper ventilation and cooling for your workstation, observe the following guidelines:

- Keep your workstation in an area where the airflow is not obstructed.
- Keep the workstation off surfaces where dust can gather.
- Remove dust on the bottom of the front panel (vent area) and the rear fans with a small vacuum, compressed air, or dust rag.
- In all supported configurations except rack mounted, provide at least 15.24 cm (6 in) of clearance to every side of the computer except the surface placed on the floor.
- When the system is rack mounted, keep the front of the unit, the back of the unit, and the space between the unit and the upper tray free of obstructions.
- The system should not be placed on its side on a surface that can block the side vents.



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