



Energy Star® Computing

IT's Personal



**21st Century energy
aware computing
for everyone**

In partnership with Energy Star®, Viglen desktop computers are more energy efficient than ever, improving their environmental footprint and reducing the Total Cost of Ownership.

viglen

Great
Minds
Think

viglen



ENERGY STAR® COMPUTING

Computers are an increasingly important part of many peoples daily lives, in the office, at school and at home and their increasing versatility means that they are in use for a rising proportion of the day.

At Viglen we recognise the demand this creates as well as the requirement to reduce the environmental footprint of our products. That's why we have aligned our desktop computers with the latest Energy Star® v5.0 guidelines to reduce the environmental impact of Viglen computing.

What is Energy Star?

The Energy Star® program has grown over the years to become a positive force for energy management and efficiency. Established in 1992 by the Environmental Protection Agency (EPA) for energy-efficient computers in the United States, the Energy Star® program now covers more than 35 product categories for the home and workplace, new homes and superior energy management within organisations. Initiatives implemented by EPA and Energy Star® have resulted in significant reductions of power consumption in many areas of computing and office-based activity.

Energy Star® power management provides features to enable a computer to adopt a low power "sleep" mode, either on demand or after a period of inactivity. The low power mode reduces power consumption by spinning down hard drives and fans and by reducing energy use in inactive components. Think of it as a low-powered screensaver; the computer can be awakened in seconds by moving the mouse or pressing a key on the keyboard.

What Difference Does it Make?

Viglen has promoted energy efficient computing strongly through its Enviroquiet program for many years and Energy Star® adds a new level to our environmental commitment.

Increasing environmental awareness has endowed all computer users with a duty to minimise energy and resource waste from their computing footprint and Viglen's Energy Star® approved computers can help fulfil that duty.

An Energy Star® approved Viglen computer functions more efficiently and can achieve the same results using less energy than before. Less electricity is wasted as heat, so your working environment improves both thermally and acoustically. The result is a more beneficial carbon footprint because less electricity is required to complete a task. Whether you focus on the lower environmental impact, or the lower electricity bill, Viglen's range of Energy Star® approved computers benefits everyone. In addition to Energy Star® approval, Viglen desktop computers feature multiple power saving features, including ACPI-enabled BIOS, efficiency features in the operating system and 80 PLUS certified power supplies.

Your account manager will be pleased to provide you with further details on Energy Star® power efficiency as well as all the other features which are already available to you.

Energy Star® v5.0 Power Consumption Guidelines

Efficiency and Performance Requirements:

Desktop Categories for Total Energy Consumption (TEC)

Criteria: For the purposes of determining TEC levels, desktops and integrated desktops must qualify under Categories A, B, C, or D as defined below:

Category A: This is the most stringent category and includes all desktop computers that do not have enhanced hardware to meet the definition of Category B, Category C, or Category D below will be considered under Category A for ENERGY STAR qualification.

Category B: To qualify under Category B, desktops must have:

- ◆ 2 Physical CPU Cores; and
- ◆ 2GB or more of system memory.

Category C: To qualify under Category C, desktops must have:

- ◆ More than 2 Physical CPU Cores. In addition models qualifying under Category C must be configured with a minimum of 1 of the following 2 characteristics:
- ◆ 2GB or more of system memory; and/or
- ◆ A discrete graphics card.

Category D: To qualify under Category D, desktops must have:

- ◆ 4 or more Physical Cores. In addition to the requirement above, models qualifying under Category D must be configured with a minimum of 1 of the following 2 characteristics:
- ◆ 4GB or more of system memory; and/or
- ◆ A discrete graphics card with a Frame Buffer Width greater than 128-bit.

How do the categories affect power consumption?

Category A requires the lowest power consumption to meet Energy Star v5.0 guidelines. Successive categories recognise higher performance hardware and permit higher TEC figures. For Energy Star 5.0, the TEC figure is calculated to reflect typical annual electricity use, measured in kilowatt-hours (kWh), using measurements of average operational mode power levels scaled by an assumed typical usage model (duty cycle).

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|-------------|-------------|
| Category A: | ≤ 148.0 kWh |
| Category B: | ≤ 175.0 kWh |
| Category C: | ≤ 209.0 kWh |
| Category D: | ≤ 234.0 kWh |

Unlike the power levels (measured in Watts) used in previous versions of the Energy Star program, the TEC figure gives you a clear indication of the estimated energy consumption of a PC system.



Viglen's Energy Star Compliant Ranges – Some Examples

◆ Viglen Genie Range

All case styles (Slim Desktop, Flexible Desktop, Medium Tower, Full Tower) configured with an 80 PLUS power supply, Intel® Processor up to Core™ i7 2600 and up to 4GB system memory

◆ Viglen Genie Ultra Pro

Configured in a Full Tower case with an 80 PLUS power supply, Intel® Processor up to Core™ i7 2600 and up to 4GB system memory