

Guidance for manufacturers

The intent is to give customers the ability to compare product energy performance. In order for comparisons to be clear and consistent only power values for which there are ENERGY STAR requirements are provided.

For ENERGY STAR Operational Mode (OM) products provide data for sleep mode, standby/off mode, and default time to sleep.

For ENERGY STAR Typical Energy Consumption (TEC) products provide the TEC value.

For all products with an external power supply provide the efficiency level (e.g., efficiency level V) according to the International Efficiency Marking Protocol for External Power Supplies.

Print speed is to be provided for all products with print capability. Scan speed is to be provided for standalone scanners.

For each power value provided reference the standard that defines the mode or value and the test method used, e.g. “ENERGY STAR Program Requirements Product Specification for Imaging Equipment and Test Method for Determining Imaging Equipment Energy Use Rev. Jun-2013”. For external power supplies the test method referenced may be “Test Method for Calculating the Energy Efficiency of Single Voltage External Ac-Dc and Ac-Ac Power Supplies (August 11, 2004)”, EN 50563, United States Department of Energy “Uniform Test Method for measuring the Energy Consumption of External Power Supplies”.

The ENERGY STAR version referenced may be 1.1, 1.2 or 2.0.

Guidance for customers/users:

Energy consumption data is provided to allow customers/users to compare the energy performance of similar products. In order for comparisons to be clear and consistent only power values for which there are ENERGY STAR requirements are provided.

The ENERGY STAR program for imaging equipment divides products into two categories with different approaches to assessing energy performance; Operational mode (OM) products and Typical Energy Consumption (TEC) products.

Most inkjet products, as well as scanners, are OM products. For OM products the ENERGY STAR program specifies power limits for sleep mode and standby/off mode as well as a time limit before which the product must automatically enter sleep mode when not active.

Laserjet and high-performance inkjet products are TEC products. TEC products are tested using a standard use model (to allow comparison of TEC products) and the amount of energy consumed in typical week is calculated.

External power supplies are marked with a Roman numeral (I-V) to show the level of energy efficiency according to the International Efficiency Marking Protocol for External Power Supplies. Level I is the least efficient and level V is the most efficient.

ECMA-370 - GUIDANCE ENERGY EFFICIENCY – IMAGING EQUIPMENT

Ecma/TC38-TG3/2015/029
(Final draft - 8 April 2015)

Print speed is provided to allow customers to compare similar products. Comparisons should be made of products with the same print speed. Also, OM products should be compared with other OM products, TEC with TEC, mono with mono, color with color.

The ENERGY STAR version referenced may be 1.1, 1.2 or 2.0. ENERGY STAR version 1.1 took effect 1 July 2009. ENERGY STAR version 1.2 has the same energy requirements as version 1.1 and added a third-party certification requirement for North America. ENERGY STAR version 2.0 has new energy requirements and takes effect 1 January 2014. Products may be qualified to version 2.0 before 1 January 2014.

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