

Product Sheet

Printers and Printer-Fax combinations



Scope

Normal-paper printers for a minimum format of A4 up to a maximum format of A3, with the adapter supplied by the manufacturer, and printer-fax combinations as well as high-end colour printer.

The models concerned must be available through the trade in Europe in the same configuration as indicated in the registration.

Criteria

Printers are eligible for the GEEA-Label if the following criteria are met:

Category	Criteria	Criteria valid till*																										
All printers	The power consumption in the off mode is 1 W or less.	31.12.2002																										
	The power consumption in the sleep mode and the delay times are less or equal than the values listed below:	31.12.2002																										
	<table border="1"> <thead> <tr> <th rowspan="2">Printing speed (PS) in pages per minute (ppm)</th> <th rowspan="2">Power consumption</th> <th colspan="2">Delay time [minutes]</th> </tr> <tr> <th>Printer</th> <th>Fax</th> </tr> </thead> <tbody> <tr> <td>0 < ppm ≤ 10</td> <td>≤ 5 W</td> <td>≤ 5</td> <td>≤ 5</td> </tr> <tr> <td>10 < ppm ≤ 20</td> <td>≤ 10 W</td> <td>≤ 15</td> <td>≤ 5</td> </tr> <tr> <td>20 < ppm ≤ 30</td> <td>≤ 30 W</td> <td>≤ 30</td> <td>≤ 15</td> </tr> <tr> <td>30 < ppm ≤ 40</td> <td>≤ 30 W</td> <td>≤ 60</td> <td>≤ 15</td> </tr> <tr> <td>>40</td> <td>≤ 30 W</td> <td>≤ 60</td> <td>≤ 15</td> </tr> </tbody> </table>	Printing speed (PS) in pages per minute (ppm)	Power consumption	Delay time [minutes]		Printer	Fax	0 < ppm ≤ 10	≤ 5 W	≤ 5	≤ 5	10 < ppm ≤ 20	≤ 10 W	≤ 15	≤ 5	20 < ppm ≤ 30	≤ 30 W	≤ 30	≤ 15	30 < ppm ≤ 40	≤ 30 W	≤ 60	≤ 15	>40	≤ 30 W	≤ 60	≤ 15	
Printing speed (PS) in pages per minute (ppm)	Power consumption			Delay time [minutes]																								
		Printer	Fax																									
0 < ppm ≤ 10	≤ 5 W	≤ 5	≤ 5																									
10 < ppm ≤ 20	≤ 10 W	≤ 15	≤ 5																									
20 < ppm ≤ 30	≤ 30 W	≤ 30	≤ 15																									
30 < ppm ≤ 40	≤ 30 W	≤ 60	≤ 15																									
>40	≤ 30 W	≤ 60	≤ 15																									
	For printers without off mode, the power consumption in standby mode should be 3 W or less and the delay time should be 30 min or less. Criteria for high-end color printer (non inkjet printer) are the same as for printers with 20 ppm up to 30 ppm. Criteria for large/wide printers are same as normal printer, according to the equivalent product speed.																											

* See Rules of Registration Procedure

Compliance with the Energy Star MoU

The compliance with Energy Star can be indicated as follows (X = full compliance)

Mode	Definition	Test Method	Criteria
Off		not defined for Energy Star	
Sleep	X	X	

Definitions and Test Method

Definition and test method for *sleep mode* are equal to actual Energy Star definition and test method (<http://www.epa.gov/appdstar/esoe/specprtfax.html>).

Definition off mode

Off mode	Operating mode in which the main switch of the printer is off.
----------	--

Test method off mode

To measure off mode power consumption the following steps have to be carried out:

1. The measurement conditions are equal to the measurement conditions for the sleep mode (see Energy Star test method).
2. Connect the printer under test to the mains, switch the printer on and – after some minutes – off.
3. Measure energy consumption in the off mode with a calibrated energymeter (watt-hour meter) over one (1) hour. Dividing the measured energy consumption by the time period over which it was measured will produce the average power consumption in Watts.
4. State the result in Watts (rounded off to the first digit after the decimal point).