

ISO/IEC 24734 Printing Productivity Report: Office Category
 FDIS ISO/IEC 29183 Copying Productivity Report

Full Detailed Test Reports
 HP Officejet 4650 Series All-in-One

Printing device and test settings

Test Start Date and Time	2/25/15 1:00pm
Tester	Salih
Machine product number	F1H96A
Machine name/model	HP Officejet 4650 All-in-One Printer
F.W. Version	CUJMTN1505BR
Colour or B&W	Colour
Temperature and humidity	23C, 50%
Voltage	115 VAC
Test End Date and Time	3/2/15 4:00PM

Item	Value
Driver version	OJ4650_52
Media / Quality Setting	Default / Default
Simplex B&W settings	Driver was set to "print in grayscale, black ink only"
Duplex B&W settings	Driver was set to "print in grayscale, black ink only"
Setting N set count	Application
Collating function	No
Paper sending direction	Default
Paper size setting	Default
Paper feeding	Standard cassette
Paper tray	Standard exit tray
Output orientation	Default (face up)
Duplexing ADF Unit	No
Duplexing Print Unit	Yes
Paper Manufacturer	HP
Weight	75lb
Size	A4
Paper type/name	HP Office Paper

Summary Reports

ISO/IEC 24734	Color	FSOT (seconds)	ESAT (ipm)
Color	Single Sided	49	6.8
	Two Sided	78	3
B&W	Single Sided	36	9.5
	Two Sided	70	3

Notes: 1) ipm = Images Per Minute and is equivalent to gpm or Pages Per Minute
 2) For Simplex B&W results, Driver was set to "print in grayscale, black ink only"
 3) For Duplex B&W results, Driver was set to "print in grayscale, black ink only"
 4) Scale content for A4 pr 8.5x11 paper sizes set to off for Word and Excel

FDIS ISO/IEC 29183	Color	FCOT (seconds)	sESAT (ipm)
Color	B&W	25	7.5
	Color	18	7.5

Notes: 1) ipm = Images Per Minute and is equivalent to gpm or Pages Per Minute
 2) Copy speed is limited to a maximum of 5 ppm for Belgium

Full Reports

ISO/IEC 24734	Office Category	FCOT (sec)	EFTP (ipm)			sESAT (ipm)		
			1 Set	1 Set+ 30 seconds	1 Set+ 4 Minutes			
Color	Single Sided	PDF (# sets)	54.43	4.40	4.73	5.03	5.25	
		Word (# sets)	30.98				7	10.70
		Excel (# sets)	58.74					4.88
	Two Sided	Average	49					6.8
		PDF (# sets)	95.70	2.50	2.61			2.71
		Word (# sets)	51.08					5.35
B&W	Single Sided	Excel (# sets)	84.28					3.10
		Average	78					3
		PDF (# sets)	39.23	6.11	7.24	7.75		8.00
	Two Sided	Word (# sets)	27.06					12.78
		Excel (# sets)	39.10					8.25
		Average	36					9.5
B&W	Single Sided	PDF (# sets)	78.29	3.06	3.27			3.38
		Word (# sets)	58.22					4.68
		Excel (# sets)	71.07					3.73
	Two Sided	Average	70					3

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 4) Scale content for A4 pr 8.5x11 paper sizes set to off for Word and Excel

FDIS ISO/IEC 29183	FCOT (sec)	sEFTP (ipm)			sESAT (ipm)	
		1 Copy	1 Copy + 30 seconds	1 Copy + 4 Minutes		
Color	Page 1 (# copies)	26.84	2.22	2.99	3.55	3.78
	Page 2 (# copies)	23.88	2.51	4.81		6.29
	Page 3 (# copies)	24.42	2.45	3.64		4.36
	Page 4 (# copies)	29.23	2.05	2.64		3.13
	Average	26	2	3	3	4
	Black	Page 1 (# copies)	17.07	3.51	5.99	6.78
Page 2 (# copies)		13.33	4.50	9.20		11.23
Page 3 (# copies)		14.99	4.00	7.07		8.53
Page 4 (# copies)		18.80	3.19	4.86		5.82
Average		18	3	6	6	7.5

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Test system parameters

Item	Value
Computer	HP Compaq Elite 8300 Small Form Factor PC
Processor	Intel Core i7-3770 Quad Core (3.40 GHz, 8 MB cache)
System Chip Set	Intel(R) Q77 Express Chipset
System Board	Standard system devices, default system BIOS
System Memory	4 GB (1x4 GB) DDR3 1600 MHz
Hard Drive subsystem	Harddisk - WD 5000 - 500GB
Video subsystem	AMD Radeon HD 8350
Optical Drive	HP DVD-RAM
IO subsystem	Button
USB subsystem	USB 2.0/3.0
Printer Connection	0
Operating System	Microsoft Windows 7 Professional 64-bit SP1
Printing Applications	Microsoft Office Pro Plus Word 2010 32-bit SP1 Microsoft Office Pro Plus Excel 2010 32-bit SP1
Test Files and location	Adobe Reader X.10.1.2 Office Category files, hard drive