

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER
HP LaserJet MFP M436

Printing device and settings		Test Start Date and Time
Printer	Letter	4/25/2019 15:04
Machine name/model	HP LaserJet MFP M436	
Colour or B&W	B&W	
FW Version	V3.82.01.01	
Temperature and Humidity	23.00pm / 72.3 degC, 20.0 %RH	
Voltage	230V	
Test End Date and Time		4/25/2019 9:42

Item	Value
Mode and Setting	Driver Version: Release10221_121-158
	Media/Quality Setting: Default / Default
	Simplex B&W Settings: Default
	Duplex B&W Settings: Default
	Setting 1's test count: Application
	Collating function: Activated (application)
Paper Path	Paper Stacking Direction: Default
	Paper Size Setting: Default
	Paper Feeding: Tray 2
	Paper Tray: Tray 1 (front) / Tray 2 (back)
	Output Orientation: Default (face down)
	Duplexing Unit (Yes/No): No
Paper	Paper Manufacturer: HP / Xerox
	Paper Weight: 20lb / 75 g/m2
	Paper Size: Letter / A4
	Paper type/name: HP Multipurpose Ultra White / HP Office

Summary Report: Letter			
Office Category	Test for B&W Device	FSOT (seconds)	ESAT (ppm)
B&W	Simplex	16.24	23.69
	Duplex	N/A	N/A

Notes:
 1) All printing device and driver settings were default mode.
 2) For the BW results, the print driver was set to "print in BW".
 3) For more information see <http://www.hp.com/go/printers>.
 4) Port number not configured to follow device if the IP address changes.

Detailed Report: LETTER						
Office Category	Test	FSOT (secs)		EFTp (ppm)		ESAT (ppm)
		1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	
Color Mode	Simplex - Adobe Reader		(1 set)			
	Simplex - Word		(1 set)			
	Simplex - Excel		(1 set)			
	Simplex - Average					
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A
	Simplex - Adobe Reader	16.59	14.46	21.37	22.71	23.68
	Simplex - Word	15.84	15.19	21.64	(6 sets)	23.73
B&W mode (optional for color device)	Simplex - Excel	16.28	14.76	21.50	(6 sets)	23.68
	Simplex - Average	16.24	14.78	21.50	22.7	23.69
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A

Notes:
 1) All printing device and driver settings were default mode.
 2) For the BW results, the print driver was set to "print in BW".
 3) For more information see <http://www.hp.com/go/printers>.
 4) Port number not configured to follow device if the IP address changes.

Test System Parameters	
Item	Value
Computer	HP Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7 -3770 / 3.4 GHz
System Chip Set	Intel C610 Chipset / Intelm / SBM100 Host Controller
System Board	System devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 8360
Optical Drive	HP DVD A DH16ac/SHKATA
I/O Subsystem	BusIn
USB Subsystem	USB 2.0 / S / 0
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - A4
HP LaserJet MFP M436

Printing device and settings	
Test Start Date and Time	4/25/2019 15:04
Tester	JB
Machine name/model	HP LaserJet MFP M436
Colour or B&W	B&W
FW Version	V3.82.01.01
Temperature and Humidity	23.09mF / 23.0degC, 20.0 %RH
Voltage	200V
Test End Date and Time	4/25/2019 9:42

Item	Value
Driver Version	Release16221_121-158
Media/Quality Setting	Default / Default
Simplex B&W Settings	Default
Duplex B&W Settings	Default
Setting 1's test count	Application
Collating function	Activated (application)
Paper Stacking Direction	Default
Paper Size Setting	Default
Paper Feeding	Tray 2
Paper Tray	Tray 2 (front-left) / Tray 1 (front-right)
Output Orientation	Default (face down)
Duplexing Unit (Yes/No)	No
Paper Manufacturer	HP / Xerox
Paper Weight	20lb / 75 g/m2
Paper Size	Letter / A4
Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A4			
Office Category	Test for B&W Device	FSOT (seconds)	ESAT (ipm)
B&W	Simplex	16.52	23.30
	Duplex	N/A	N/A

Notes:
 1) All printing device and driver settings were default mode.
 2) For the BW results, the print driver was set to "print in BW".
 3) For more information see <http://www.hp.com/go/printers>.
 4) Port number not configured to follow device if the IP address changes.

Detailed Report: A4						
Colour Mode	Office Category Test	FSOT (secs)		EFTP (ipm)		ESAT (ipm)
		1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	1 set + 30sec
Colour Mode	Simplex - Adobe Reader		(1 set)			
	Simplex - Word		(1 set)			
	Simplex - Excel		(1 set)			
	Simplex - Average					
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A
	Simplex - Adobe Reader	17.16	13.98	19.93	22.59	23.23
	Simplex - Word	16.05	14.98	20.59		23.44
B&W mode (optional for color device)	Simplex - Excel	16.34	14.88	20.73		23.25
	Simplex - Average	16.5	14.54	20.26	22.6	23.30
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A

Notes:
 1) All printing device and driver settings were default mode.
 2) For the BW results, the print driver was set to "print in BW".
 3) For more information see <http://www.hp.com/go/printers>.
 4) Port number not configured to follow device if the IP address changes.

Test System Parameters	
Item	Value
Computer	HP Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7 -3770 / 3.4 GHz
System Chip Set	Intel C610 Chipset / Intel® SBM100 Host Controller
System Board	System devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 8360
Optical Drive	HP DVD A DH16AC/SHKATA
I/O Subsystem	BusIn
USB Subsystem	USB 2.0/3.0
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - Tabloid
HP LaserJet MFP M436

Printing device and settings	
Test Start Date and Time	4/24/2019 15:04
Tester	JB
Machine name/model	HP LaserJet MFP M436
Colour or B&W	B&W
FW Version	V3.82.01.01
Temperature and Humidity	23.09mF / 23.0degC 20.0 %RH
Voltage	200V
Test End Date and Time	4/25/2019 9:42

Item	Value
Driver Version	Release16221_121-158
Media/Quality Setting	Default / Default
Simplex B&W Settings	Default
Duplex B&W Settings	Default
Setting 1's test count	Application
Collating function	Activated (application)
Paper Stacking Direction	Default
Paper Size Setting	Default
Paper Feeding	Tray 2
Paper Tray	Tray 1 (front) Tray 2 (back)
Output Orientation	Default (face down)
Duplexing Unit (Yes/No)	No
Paper Manufacturer	HP Xerox
Paper Weight	20lb / 75 g/m2
Paper Size	Letter / A4
Paper type/name	HP Multiurpose Ultra White / HP Office

Summary Report: Tabloid			
Office Category	Test for B&W Device	FSOT (seconds)	ESAT (ipm)
B&W	Simplex	25.53	13.02
	Duplex	N/A	N/A

Notes:
 1) All printing device and driver settings were default mode.
 2) For the BW results, the print driver was set to "print in BW".
 3) For more information see <http://www.hp.com/go/printers>.
 4) Port number not configured to follow device if the IP address changes.

Detailed Report: Tabloid							
Office Category	Test	FSOT (secs)		EFTp (ipm)		ESAT (ipm)	
		1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)		
Color Mode	Simplex - Adobe Reader		(1 set)				
	Simplex - Word		(1 set)				
	Simplex - Excel		(1 set)				
	Simplex - Average						
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A	
	Duplex - Word	N/A	N/A	N/A		N/A	
	Duplex - Excel	N/A	N/A	N/A		N/A	
	Duplex - Average	N/A	N/A	N/A		N/A	
	B&W mode (optional for color device)	Simplex - Adobe Reader	27.07	8.99	11.25	12.55	13.01
		Simplex - Word	24.59	9.79	11.72	13.05	13.05
Simplex - Excel		24.91	9.83	11.68	13.01	13.01	
Simplex - Average		9.41	11.53	12.55	13.02	13.02	
Duplex - Adobe Reader		N/A	N/A	N/A		N/A	
Duplex - Word		N/A	N/A	N/A		N/A	
Duplex - Excel		N/A	N/A	N/A		N/A	
Duplex - Average		N/A	N/A	N/A		N/A	

Notes:
 1) All printing device and driver settings were default mode.
 2) For the BW results, the print driver was set to "print in BW".
 3) For more information see <http://www.hp.com/go/printers>.
 4) Port number not configured to follow device if the IP address changes.

Test System Parameters	
Item	Value
Computer	HP Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7 -3770 / 3.4 GHz
System Chip Set	Intel C610 Chipset / Intel® SBM100 Host Controller
System Board	System devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 8360
Optical Drive	HP DVD A DH16AC/SHKATA
I/O Subsystem	BusIn
USB Subsystem	USB 2.0/3.0
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - A3
HP LaserJet MFP M436

Printing device and settings		Value
Test Start Date and Time		4/25/2019 15:04
Tester		JB
Machine name/model		HP LaserJet MFP M436
Colour or B&W		B&W
FW Version		V3.82.01.01
Temperature and Humidity		23.09mF / 23.0deg, 20.0 %RH
Voltage		200V
Test End Date and Time		4/25/2019 9:42

Item	Value
Driver Version	Release16221_121-158
Media/Quality Setting	Default / Default
Simplex B&W Settings	Default
Duplex B&W Settings	Default
Setting 1's test count	Application
Collating function	Activated (application)
Paper Stacking Direction	Default
Paper Size Setting	Default
Paper Feeding	Tray 2
Paper Tray	Tray 2 (Postnet/E-11) Tray
Output Orientation	Default (face down)
Duplexing Unit (Yes/No)	No
Paper Manufacturer	HP Xerox
Paper Weight	20lb / 75 g/m2
Paper Size	Letter / A4
Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A3			
Office Category	Test for B&W Device	FSOT (seconds)	ESAT (gpm)
B&W	Simplex	16.24	12.68
	Duplex	N/A	N/A

Notes:
 1) All printing device and driver settings were default mode.
 2) For the BW results, the print driver was set to "print in BW".
 3) For more information see <http://www.hp.com/go/printers>.
 4) Port number not configured to follow device if the IP address changes.

Detailed Report: A3						
Office Category	Test	FSOT (secs)		EFTp (gpm)		ESAT (gpm)
		1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	
Color Mode	Simplex - Adobe Reader		(1 set)			
	Simplex - Word		(1 set)			
	Simplex - Excel		(1 set)			
	Simplex - Average					
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A
B&W mode (optional for color device)	Simplex - Adobe Reader	27.37	8.78 (1 set)	10.94 (3 sets)	12.40 (14 sets)	12.49
	Simplex - Word	24.75	9.99 (1 set)	11.60 (3 sets)	12.68 (14 sets)	12.89
	Simplex - Excel	24.98	9.90 (1 set)	11.38 (3 sets)	12.40 (14 sets)	12.68
	Simplex - Average	25.70	9.35	11.30	12.40	12.68
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A

Notes:
 1) All printing device and driver settings were default mode.
 2) For the BW results, the print driver was set to "print in BW".
 3) For more information see <http://www.hp.com/go/printers>.
 4) Port number not configured to follow device if the IP address changes.

Test System Parameters	
Item	Value
Computer	HP Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7 -3770 / 3.4 GHz
System Chip Set	Intel C610 Chipset / Intelm SMBus Host Controller
System Board	System devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 8360
Optical Drive	HP DVD A DH16ac/SHKATA
I/O Subsystem	BusIn
USB Subsystem	USB 2.0/3.0
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Feature Performance Full Report - Office Feature Performance Test
HP LaserJet MFP M436

Printing device and settings		Test Start Date and Time
Printer	Model	4/25/2019 15:04
Printer	Driver	JB
Printer	Machine name/model	HP LaserJet MFP M436
Printer	Colour or B/W	B/W
Printer	FW Version	V3.82.01.01
Printer	Temperature and Humidity	23.09°F / 23.0 degC, 20.0 %RH
Printer	Voltage	200V
Printer	Test End Date and Time	4/25/2019 9:42

Item	Value	
Mode and Setting	Driver Version	Release10221_121-158
	Media/Quality Setting	Default / Default
	Simplex B/W Settings	Default
	Duplex B/W Settings	Default
Paper	Setting 1's test count	Application
	Collating function	Activated (application)
	Paper Stacking Direction	Default
	Paper Size Setting	Default
Paper	Paper 1's eading	Tray 2
	Paper 2's eading	Tray 2
	Paper 3's eading	Tray 2
	Paper 4's eading	Tray 2
Paper	Output Orientation	Default (back down)
	Duplexing Unit (Y/N)	No
	Paper Manufacture	HP / Xerox
	Paper Weight	20lb / 75 g/m2
Paper	Paper Size	Letter / A4
	Paper type/name	HP Multisurface Ultra White / HP Office

ISO Print Productivity Report: Feature Performance Test Summary

Printing Modes (Feature Adobe Reader - Office test file)	Printing Modes	Feature Performance Ratio	
		FSOT (base) FSOT (feature)	ESAT (feature) ESAT (base)
A5, Landscape Feed, Simplex, Colour	Simplex		
A5, Portrait Feed, Simplex, Colour	Simplex		
Legal, Simplex, Colour	Simplex		
Legal, Duplex, Colour	Duplex		
A4, 1200 dpi, Simplex, Colour	Simplex		
Letter, 1200 dpi, Simplex, Colour	Simplex		
A4, General Office, Simplex, Colour	Simplex		
Letter, General Office, Simplex, Colour	Simplex		
A5, Landscape Feed, Simplex, B/W	Simplex		
A5, Portrait Feed, Simplex, B/W	Simplex	102%	95%
Legal, Simplex, B/W	Simplex		
Legal, Duplex, B/W	Duplex		
A4, 1200 dpi, Simplex, B/W	Simplex		
Letter, 1200 dpi, Simplex, B/W	Simplex		
A4, General Office, Simplex, B/W	Simplex		
Letter, General Office, Simplex, B/W	Simplex		

Notes:
 1) All printing device and driver settings were default mode.
 2) Test conducted with 8-paper Office Feature Performance file.
 3) For more information see <http://w.w.hp.com/go/printerclaims>.
 4) Port number not configured to follow device if the IP address changes.

Feature Performance Full Report - Feature Printing Mode: 'Office' Feature Performance Test

Printing Modes (Feature Adobe Reader - Office test file (8-page))	Base Printing Mode		Feature Performance			
	FSOT Base	ESAT Base	1 set FSOT (secs)	1 set + 30 sec ESAT (ipm)	FSOT (feature)	ESAT (feature)
A5, Landscape Feed, Simplex, Colour						
A5, Portrait Feed, Simplex, Colour						
Legal, Simplex, Colour						
Legal, Duplex, Colour						
A4, 1200 dpi, Simplex, Colour						
Letter, 1200 dpi, Simplex, Colour						
A4, General Office, Simplex, Colour						
Letter, General Office, Simplex, Colour						
A5, Landscape Feed, Simplex, B/W	27.96	23.24				
A5, Portrait Feed, Simplex, B/W	27.96	23.24	27.58	22.2	102%	95%
Legal, Simplex, B/W						
Legal, Duplex, B/W						
A4, 1200 dpi, Simplex, B/W	27.96	23.24				
Letter, 1200 dpi, Simplex, B/W						
A4, General Office, Simplex, B/W	27.96	23.24				
Letter, General Office, Simplex, B/W						

Notes:
 1) All printing device and driver settings were default mode.
 2) Test conducted with 8-paper Office Feature Performance file.
 3) For more information see <http://w.w.hp.com/go/printerclaims>.
 4) Port number not configured to follow device if the IP address changes.

Test System Parameters

Item	Value	
Test System	Computer	HP Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	System devices, default system BIOS
	System Memory	8 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	ATI Radeon HD 6530
	Optical Drive	HP DVD A DH162C-STR A/A
	IO Subsystem	BusIn
	USB Subsystem	USB 2.0/3.0
OS	OS	Windows 7 64 Bit
	Operating System	Windows 7 64 Bit
Software	Printing Applications	Microsoft Office 2010
	Microsoft Office	Office 2010
	Adobe Reader	10
	Test files and location	Office category files, hard drive

ISO/IEC 17629 First Print Out Time Report: Office Category

Full Detailed Test Report - LETTER

HP LaserJet MFP M436

Printing device and settings	
Test Start Date and Time	4/24/2019 15:04
Tester	JB
Machine name/model	HP LaserJet MFP M436
Colour or B&W	B&W
FW Version	V3.82.01.01
Configuration (options)	Default
Controller	NA
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	73 degF / 23 degC 20.0 %rH
Voltage	220V
Test End Date and Time	4/25/2019 9:42

Item	Value
Mode and Setting	
PDL and driver version	Release16221_121-158
Print Quality mode	default
B&W settings	default
Paper feed orientation	Short Edge
Paper	
Paper type setting	default
Paper feeding	Standard cassette
Paper Path	
Paper exit	Standard exit tray
Output orientation	default (face up or face down)

ISO First Page Out Time Summary Report: Office Category

Summary Report: Letter		FPOT from Ready (seconds)
B&W	Simplex	8.42
	Duplex	

- Notes
- 1) All printing device and driver settings were default mode.
 - 2) For the B/W results, the print driver was set to "print in B/W".
 - 3) For more information see <http://www.hp.com/go/printerclaims>.
 - 4) Port monitor not configured to follow device if the IP address changes.
 - 5) Page counts were collected after completion of the tests.

ISO First Page Out Time Report: Office Category

Detailed Report: LETTER						
		Word (seconds)	Excel (seconds)	Adobe Reader (seconds)	Average (seconds)	Delay Time
Color Mode	FPOT from Ready - Simplex					
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			N/A		
	Recovery Time					
	FPOT from Off - Simplex					
	Warm-up Time					
B&W Mode	FPOT from Ready - Simplex	8.27	8.44	8.54	8.42	21 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			25.64		61 Minutes
	Recovery Time			17.1		
	FPOT from Off - Simplex			36.58		
	Warm-up Time			28.04		

- Notes
- 1) All printing device and driver settings were default mode.
 - 2) For the B/W results, the print driver was set to "print in B/W".
 - 3) For more information see <http://www.hp.com/go/printerclaims>.
 - 4) Port monitor not configured to follow device if the IP address changes.
 - 5) Page counts were collected after completion of the tests.
 - 6) Details for FPOT from Sleep are shown below.

HP Data Table

Detailed Report: LETTER							
		FPOT Avg (secs)	FPOT (secs) Iteration 1	FPOT (secs) Iteration 2	FPOT (secs) Iteration 3	Application	Delay Time
Color Mode	FPOT from Sleep	N/A	N/A	N/A	N/A	Adobe Reader	
	FPOT from Sleep (15 minutes) HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	
	FPOT from Sleep	25.64	25.52	25.76	N/A	Adobe Reader	61 Minutes
B&W Mode	FPOT from Sleep (15 minutes) HP/Non ISO Test	22.01	21.98	22.03	N/A	Adobe Reader	16 Minutes

- Notes
- 1) All printing device and driver settings were default mode.
 - 2) For the B/W results, the print driver was set to "print in B/W".
 - 3) DLP includes detailed iterations as data measurements may vary run to run.

Test System Parameters		
Item	Value	
Test System	Computer	HP Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	system devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 8350
	Optical Drive	HP DVD A DH16aCSHR ATA
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
Printing Device Connection	TCP/IP	10/1000
Software	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
	Printing Applications	Microsoft Office 2010 SP2
	Print Driver	Adobe Reader 10.1.4 Release16221_121-158

ISO/IEC 17629 First Print Out Time Report: Office Category

Full Detailed Test Report - A4

HP LaserJet MFP M436

Printing device and settings	
Test Start Date and Time	4/24/2019 15:04
Tester	JB
Machine name/model	HP LaserJet MFP M436
Colour or B&W	B&W
FW Version	V3.82.01.01
Configuration (options)	Default
Controller	NA
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	73 degF / 23 degC 20.0 %rH
Voltage	220V
Test End Date and Time	4/25/2019 9:42

Item	Value
Mode and Setting	PDL and driver version Release16221_121-158
Print Quality mode	default
B&W settings	default
Paper feed orientation	Short Edge
Paper	Paper type setting default
Paper feeding	Standard cassette
Paper Path	Paper exit Standard exit tray
Output orientation	default (face up or face down)

ISO First Page Out Time Summary Report: Office Category

Summary Report: A4

		FPOT from Ready (seconds)
B&W	Simplex	8.70
	Duplex	

Notes

- 1) All printing device and driver settings w ere default mode.
- 2) For the B/W results, the print driver w as set to "print in B/W".
- 3) For more information see <http://w w w .hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.
- 5) Page counts w ere collected after completion of the tests.

ISO First Page Out Time Report: Office Category

Detailed Report: A4

		Word (seconds)	Excel (seconds)	Adobe Reader (seconds)	Average (seconds)	Delay Time
Color Mode	FPOT from Ready - Simplex					
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			N/A		
	Recovery Time					
	FPOT from Off - Simplex					
	Warm-up Time					
B&W Mode	FPOT from Ready - Simplex	8.35	8.69	9.04	8.70	21 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			25.80		61 Minutes
	Recovery Time			16.8		
	FPOT from Off - Simplex			34.95		
	Warm-up Time			25.91		

Notes

- 1) All printing device and driver settings w ere default mode.
- 2) For the B/W results, the print driver w as set to "print in B/W".
- 3) For more information see <http://w w w .hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.
- 5) Page counts w ere collected after completion of the tests.
- 6) Details for FPOT from Sleep are show n below.

HP Data Table

Detailed Report: A4

		FPOT Avg (secs)	FPOT (secs) Iteration 1	FPOT (secs) Iteration 2	FPOT (secs) Iteration 3	Application	Delay Time
Color Mode	FPOT from Sleep	N/A	N/A	N/A	N/A	Adobe Reader	
	FPOT from Sleep (15 minutes)	N/A	N/A	N/A	N/A	Adobe Reader	
	HP/Non ISO Test						
B&W Mode	FPOT from Sleep	25.80	25.98	25.61	N/A	Adobe Reader	61 Minutes
	FPOT from Sleep (15 minutes)	20.88	20.33	21.42	N/A	Adobe Reader	16 Minutes
	HP/Non ISO Test						

Notes

- 1) All printing device and driver settings w ere default mode.
- 2) For the B/W results, the print driver w as set to "print in B/W".
- 3 DLP includes detailed iterations as data measurements may vary run to run.

Test System Parameters		
Item	Value	
Test System	Computer	HP Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	system devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 6350
	Optical Drive	HP DVD A DH16aCSHR ATA
	IO Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
Printing Device Connection	TCP/IP 10/1000	
Software	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
	Printing Applications	Microsoft Office 2010 SP2
	Print Driver	Adobe Reader 10.1.4 Release16221_121-158

ISO/IEC 29183 Copy Productivity Report

Full Detailed Test Report - LETTER

HP LaserJet MFP M436

Machine Setup Information		
Test Start Date and Time	4/25/2019 13:44	
Tester	JB	
Machine name/model	HP LaserJet MFP M436	
Colour or B&W	B&W	
FW Version	V3.82.01.01	
Configuration (options)	Not Specified	
Temperature and Humidity	73 degF / 23 degC 20.0 %rH	
Test End Date and Time:	4/25/2019 16:16	

	Pre-set Item	Pre-set Value
Mode	Output Resolution	Default
	Output Quality	Default
	Copying Mode	Colour for Colour and B&W for B&W
	Auto Density Adjustment	Default
	Collating function	Set in Control Panel
Paper	Paper Sending Direction	Default
	Paper Type Setting	Default
Paper Path	Paper Feeding	Tray 2
	Paper Exit	Default
	Face Up Exit	Default (face down)
Temporary Stop	Fixing Capability	Default
	Image Quality Stability	Default
	Capacity of Paper	Default
	Others	None

Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: Letter		
	sFCOT	sESAT (ipm)
B&W	7.50	23.76

Notes
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.
 Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2

Detailed Report: LETTER						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
B&W	A	7.50	8.00	20.01 16 sets	23.02 99 sets	23.76
	B					
	C					
	D					
	Average		7.50	8.00	20.01	23.02

Notes
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.
 Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2

ISO/IEC 29183 Copy Productivity Report

Full Detailed Test Report - A4

HP LaserJet MFP M436

Machine Setup Information		
Test Start Date and Time	4/25/2019 13:44	
Tester	JB	
Machine name/model	HP LaserJet MFP M436	
Colour or B&W	B&W	
FW Version	V3.82.01.01	
Configuration (options)	Not Specified	
Temperature and Humidity	73 degF / 23 degC 20.0 %rH	
Test End Date and Time:	4/25/2019 16:16	

	Pre-set Item	Pre-set Value
Mode	Output Resolution	Default
	Output Quality	Default
	Copying Mode	Colour for Colour and B&W for B&W
	Auto Density Adjustment	Default
	Collating function	Set in Control Panel
Paper	Paper Sending Direction	Default
	Paper Type Setting	Default
Paper Path	Paper Feeding	Tray 2
	Paper Exit	Default
	Face Up Exit	Default (face down)
Temporary Stop	Fixing Capability	Default
	Image Quality Stability	Default
	Capacity of Paper	Default
	Others	None

Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A4		
	sFCOT	sESAT (ipm)
B&W	7.45	23.35

Notes
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.
 Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2

Detailed Report: A4						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
B&W	A	7.45	8.05	19.76 16 sets	22.56 100 sets	23.35
	B					
	C					
	D					
	Average		7.45	8.05	19.76	22.56

Notes
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.
 Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2