

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER

HP LaserJet Managed MFP E82670dn

Printing device and settings	
Test Start Date and Time	6/8/2023 9:25
Toner	LEP
Machine name/model	HP LaserJet Managed MFP E82670dn
Colour or B&W	B&W
FW Version	2506068_035016
Temperature and Humidity	76 degF / 24 degC 49 %RH
Voltage	220V
Test End Date and Time	6/9/2023 9:35

Item	Value	
Mode and Setting	Driver Version	HP Smart Universal Printing (V4), 2.7.1.1569
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Print in Grayscale
	Duplex B&W Settings	Print in Grayscale
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
Paper	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	YES
	Paper Manufacturer	HP/Xerox
	Paper Weight	20lb / 75 g/m <sup>2</sup>
	Paper Size	LTR / A4 / LGL / LGR / A3
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: Letter			
Office Category	Test for B&W Device	FSOT (seconds)	ESAT (ipm)
B&W	Simplex	8.63	70.55
	Duplex	12.02	70.80

- 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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
  - 4) Post monitor not configured to follow device if the IP address changes.
  - 5) Productivity has been determined in accordance to ISO/IEC 24734:2010

Detailed Report: LETTER						
Office Category	Test	FSOT (secs)	EFTP (ipm)		ESAT (ipm)	
			1 set only (1 set)	1 set + 30sec (1 set)		
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	8.85	27.13 ( 1 set )	60.83 ( 10 sets )	69.06 ( 72 sets )	70.56
	Simplex - Word	8.89	27.01 ( 1 set )	61.11 ( 11 sets )		70.55
	Simplex - Excel	8.14	29.48 ( 1 set )	61.85 ( 10 sets )		70.56
	Simplex - Average	8.63	27.87 ( 1 set )	61.26 ( 10 sets )	69.1	70.55
	Duplex - Adobe Reader	12.34	19.44 ( 1 set )	55.96 ( 10 sets )		70.78
	Duplex - Word	12.20	19.66 ( 1 set )	55.96 ( 10 sets )		70.80
	Duplex - Excel	11.51	20.94 ( 1 set )	56.86 ( 10 sets )		70.84
	Duplex - Average	12.02	19.98 ( 1 set )	56.26 ( 10 sets )		70.80

- 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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
  - 4) Post monitor not configured to follow device if the IP address changes.
  - 5) Productivity has been determined in accordance to ISO/IEC 24734:2010

Test System Parameters	
Item	Value
Computer	HP Z2 Tower G8 Workstation
Processor	Intel Core i7-11700K @ 3600GHz
System Chip Set	Intel SKL/KBL Mobile/Desktop
System Board	system devices, default system BIOS
System Memory	16 GB
Hard Drive Subsystem	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
Video Subsystem	Microsoft Basic Display Adaptor
Optical Drive	NA
I/O Subsystem	Buain
USB Subsystem	USB 2.0/3.0
	TCP/IP TCP/IP 10/1000
Operating System	Win 10 Enterprise 64 Bit (21H2)
Printing Applications	Microsoft Office Word 2021 Acrobat Reader DC Microsoft Office Excel 2021
Print Driver	Not Specified
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - A4

HP LaserJet Managed MFP E82670dn	
<b>Printing device and settings</b>	
Test Start Date and Time	6/9/2023 9:25
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82670dn
Colour or B&W	B&W
FW Version	2506068_035016
Temperature and Humidity	76 degF / 24 degC 49 %rH
Voltage	220V
Test End Date and Time	6/9/2023 9:35

Item	Value	
<b>Mode and Setting</b>	Driver Version	HP Smart Universal Printing (V4), 2.7.1.1569
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Print in Grayscale
	Duplex B&W Settings	Print in Grayscale
	Setting N set count	Application
<b>Paper Path</b>	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
<b>Paper</b>	Duplexing Unit (Yes/No)	YES
	Paper Manufacturer	HP/Xerox
	Paper Weight	20lb / 75 g/m <sup>2</sup>
	Paper Size	LTR / A4 / LGL / LGR / A3
Paper type/name		HP Multipurpose Ultra White / HP Office

Summary Report: A4		FSOT (seconds)	ESAT (ipm)
Office Category Test for B&W Device			
<b>B&amp;W</b>	Simplex	8.55	70.55
	Duplex	12.05	70.77

- 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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
  - 4) Post monitor not configured to follow device if the IP address changes.
  - 5) Productivity has been determined in accordance to ISO/IEC 24734:2010

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)	
<b>Colour Mode</b>	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>B&amp;W mode</b> <small>(optional for color device)</small>	Simplex - Adobe Reader	8.68	27.66 ( 1 set )	61.06 ( 10 sets )	69.07 ( 73 sets )	70.56
	Simplex - Word	8.83	27.19 ( 1 set )	60.56 ( 10 sets )		70.56
	Simplex - Excel	8.13	29.53 ( 1 set )	61.64 ( 10 sets )		70.53
	Simplex - Average	8.6	28.12 ( 1 set )	61.08 ( 10 sets )	69.1	70.55
	Duplex - Adobe Reader	12.39	19.36 ( 1 set )	55.86 ( 10 sets )		70.78
	Duplex - Word	12.20	19.66 ( 1 set )	55.34 ( 10 sets )		70.76
	Duplex - Excel	11.54	20.80 ( 1 set )	56.78 ( 10 sets )		70.78
	Duplex - Average	12.1	19.94 ( 1 set )	56.19 ( 10 sets )		70.77

- 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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
  - 4) Post monitor not configured to follow device if the IP address changes.
  - 5) Productivity has been determined in accordance to ISO/IEC 24734:2010

Item	Value
Computer	HP Z2 Tower G8 Workstation
Processor	Intel Core i7 11700K @ 3600GHz
System Chip Set	Intel SKL/KBL Mobile/Desktop
System Board	system devices, default system BIOS
System Memory	16 GB
Hard Drive Subsystem	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
Video Subsystem	Microsoft Basic Display Adaptor
Optical Drive	NA
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/1000
Operating System	Win 10 Enterprise 64 Bit (21H2)
Printing Applications	Microsoft Office Word 2021 Acrobat Reader DC Microsoft Office Excel 2021
Print Driver	Not Specified
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - Tabloid  
HP LaserJet Managed MFP E82670dn

Printing device and settings	
Test Start Date and Time	6/9/2023 9:25
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82670dn
Colour or B&W	B&W
FW Version	250606B_035016
Temperature and Humidity	76 degF / 24 degC 49 %rH
Voltage	220V
Test End Date and Time	6/9/2023 9:35

Item	Value	
Mode and Setting	Driver Version	HP Smart Universal Printing (V4), 2.7.1.1569
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Print in Grayscale
	Duplex B&W Settings	Print in Grayscale
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
Paper	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	YES
	Paper Manufacturer	HP/Xerox
	Paper Weight	20lb / 75 g/m <sup>2</sup>
	Paper Size	LTR / A4 / LGL / LGR / A3
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: Tabloid			
Office Category	Test for B&W Device	FSOT (seconds)	ESAT (ipm)
B&W	Simplex	13.47	35.48
	Duplex	18.61	35.53

- 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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
  - 4) Port monitor not configured to follow device if the IP address changes.
  - 5) Productivity has been determined in accordance to ISO/IEC 24734:2010

Detailed Report: Tabloid						
Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)	
		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	13.63	17.61 ( 1 set )	30.08 ( 6 sets )	34.53 ( 37 sets )	35.48
	Simplex - Word	14.05	17.08 ( 1 set )	30.08 ( 6 sets )		35.48
	Simplex - Excel	12.71	18.88 ( 1 set )	30.83 ( 6 sets )		35.49
	Simplex - Average	13.47	17.85 ( 1 set )	30.33 ( 6 sets )	34.53	35.48
	Duplex - Adobe Reader	19.48	12.32 ( 1 set )	26.96 ( 6 sets )		35.54
	Duplex - Word	18.75	12.80 ( 1 set )	27.40 ( 6 sets )		35.52
	Duplex - Excel	17.58	13.64 ( 1 set )	27.90 ( 6 sets )		35.54
	Duplex - Average	18.61	12.92 ( 1 set )	27.42 ( 6 sets )		35.53

- 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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
  - 4) Port monitor not configured to follow device if the IP address changes.
  - 5) Productivity has been determined in accordance to ISO/IEC 24734:2010

Test System Parameters	
Item	Value
Computer	HP Z7 Tower G8 Workstation
Processor	Intel Core i7 11700K @ 3600GHz
System Chip Set	Intel SKL/KBL Mobile/Desktop
System Board	system devices, default system BIOS
System Memory	16 GB
Hard Drive Subsystem	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
Video Subsystem	Microsoft Basic Display Adaptor
Optical Drive	NA
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/1000
Operating System	Win 10 Enterprise 64 Bit (21H2)
Printing Applications	Microsoft Office Word 2021 Acrobat Reader DC Microsoft Office Excel 2021
Print Driver	Not Specified
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - A3  
HP LaserJet Managed MFP E82670dn

Printing device and settings

Test Start Date and Time	6/8/2023 9:25
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82670dn
Colour or B&W	B&W
FW Version	2506068_035016
Temperature and Humidity	76 degF / 24 degC 49 %rH
Voltage	220V
Test End Date and Time	6/9/2023 9:35

Item	Value
Driver Version	HP Smart Universal Printing (V4), 2.7.1.1569
Media/Quality Setting	Default / Default
Simplex B&W Settings	Print in Grayscale
Duplex B&W Settings	Print in Grayscale
Setting N set count	Application
Collating function	Activated (application)
Paper Sending Direction	Default
Paper Size Setting	Default
Paper Feeding	Tray 2
Paper Exit	Standard Exit Tray
Output Orientation	Default (face down)
Duplexing Unit (Yes/No)	YES
Paper Manufacturer	HP/Xerox
Paper Weight	20lb / 75 g/m <sup>2</sup>
Paper Size	LTR / A4 / LGL / LGR / A3
Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A3

Office Category Test for B&W Device	FSOT (seconds)	ESAT (ipm)
B&W Simplex	8.63	35.48
B&W Duplex	12.02	35.54

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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 4) Post monitor not configured to follow device if the IP address changes.
- 5) Productivity has been determined in accordance to ISO/IEC 24734:2010

Detailed Report: A3

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	13.61	17.63 ( 1 set )	30.31 ( 6 sets )	34.55 ( 38 sets )	35.49
	Simplex - Word	14.10	17.01 ( 1 set )	29.95 ( 6 sets )		35.48
	Simplex - Excel	12.69	18.91 ( 1 set )	30.82 ( 6 sets )		35.48
	Simplex - Average	13.47	17.85 ( 1 set )	30.36 ( 6 sets )	34.55	35.48
	Duplex - Adobe Reader	19.53	12.28 ( 1 set )	26.96 ( 6 sets )		35.54
	Duplex - Word	18.91	12.68 ( 1 set )	27.34 ( 6 sets )		35.54
	Duplex - Excel	17.63	13.60 ( 1 set )	27.88 ( 6 sets )		35.54
	Duplex - Average	18.69	12.85 ( 1 set )	27.39 ( 6 sets )		35.54

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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 4) Post monitor not configured to follow device if the IP address changes.
- 5) Productivity has been determined in accordance to ISO/IEC 24734:2010

Test System Parameters

Item	Value
Computer	HP Z2 Tower G8 Workstation
Processor	Intel Core i7 11700K @ 3600GHz
System Chip Set	Intel SKL/KBL Mobile/Desktop
System Board	system devices, default system BIOS
System Memory	16 GB
Hard Drive Subsystem	Samsung SSD PCIe N/Me TLC M.2 SSD 512GB
Video Subsystem	Microsoft Basic Display Adaptor
Optical Drive	NA
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/1000
Operating System	Win 10 Enterprise 64 Bit (21H2)
Printing Applications	Microsoft Office Word 2021 Acrobat Reader DC
Print Driver	Microsoft Office Excel 2021
Print Driver	Not Specified
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 Managed MFP E82670dn	
<b>Printing device and settings</b>	
Test Start Date and Time	6/9/2023 9:25
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82670dn
Colour or B&W	B&W
FW Version	2506068_035016
Temperature and Humidity	76 degF / 24 degC 49 %rH
Voltage	220V
Test End Date and Time	6/9/2023 9:35

Item	Value	
Mode and Setting	Driver Version	HP Smart Universal Printing (V4), 2.7.1.1569
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Print in Grayscale
	Duplex B&W Settings	Print in Grayscale
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
Paper	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	YES
	Paper Manufacturer	HP/Xerox
	Paper Weight	20lb / 75 g/m <sup>2</sup>
	Paper Size	LTR / A4 / LGL / LGR / A3
	Paper type/name	HP Multipurpose Ultra White / HP Office

ISO Print Productivity Report: Feature Performance Test Summary

Printing Modes (Feature Adobe Reader - Office test file)		Feature Performance Ratio	
		FSOT (base) FSOT (feature)	ESAT (feature) ESAT (base)
A5, Landscape Feed, Simplex, Colour	Simplex		
A5, Portrait Feed, Simplex, Colour	Simplex		
A5, Portrait Feed, Duplex, Colour	Duplex		
Legal, Simplex, Colour	Simplex		
Legal, Duplex, Colour	Duplex		
A4, 1200 dpi, Simplex, Colour	Simplex		
Letter, 1200 dpi, Simplex, Colour	Simplex		
A4, HP High Speed, Simplex, Colour	Simplex		
Letter, HP High Speed, Simplex, Colour	Simplex		
A4, General Office, Simplex, Colour	Simplex		
Letter, General Office, Simplex, Colour	Simplex		
A5, Landscape Feed, Simplex, B/W	Simplex	88%	100%
A5, Portrait Feed, Simplex, B/W	Simplex		
A5, Portrait Feed, Duplex, B/W	Duplex		
Legal, Simplex, B/W	Simplex	68%	58%
Legal, Duplex, B/W	Duplex	56%	58%
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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.  
 4) Post monitor not configured to follow device if the IP address changes.  
 5) Productivity has been determined in accordance to ISO/IEC 24734:2010

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 (base) FSOT (feature)	ESAT (feature) ESAT (base)
A5, Landscape Feed, Simplex, Colour						
A5, Portrait Feed, Simplex, Colour						
A5, Portrait Feed, Duplex, Colour						
Legal, Simplex, Colour						
Legal, Duplex, Colour						
A4, 1200 dpi, Simplex, Colour						
Letter, 1200 dpi, Simplex, Colour						
A4, HP High Speed, Simplex, Colour						
Letter, HP High Speed, Simplex, Colour						
A4, General Office, Simplex, Colour						
Letter, General Office, Simplex, Colour						
A5, Landscape Feed, Simplex, B/W	12.23	70.55	13.95	70.6	88%	100%
A5, Portrait Feed, Simplex, B/W	12.23	70.55				
A5, Portrait Feed, Duplex, B/W	12.23	70.55				
Legal, Simplex, B/W	12.39	70.55	18.39	41.1	68%	58%
Legal, Duplex, B/W	12.39	70.55	22.41	41.1	56%	58%
A4, 1200 dpi, Simplex, B/W	12.23	70.55				
Letter, 1200 dpi, Simplex, B/W	12.39	70.55				
A4, General Office, Simplex, B/W	12.23	70.55				
Letter, General Office, Simplex, B/W	12.39	70.55				

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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.  
 4) Post monitor not configured to follow device if the IP address changes.  
 5) Productivity has been determined in accordance to ISO/IEC 24734:2010

Test System Parameters

Item	Value	
Test System	Computer	HP Z2 Tower G8 Workstation
	Processor	Intel Core i7 11700K @ 3600GHz
	System Chip Set	Intel SKL/KBL Mobile/Desktop
	System Board	system devices, default system BIOS
	System Memory	16 GB
	Hard Drive Subsystem	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	NA
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
I/O	TCP/IP	TCP/IP 10/1000
	Operating System	Win 10 Enterprise 64 Bit (21H2)
Software	Printing Applications	Microsoft Office Word 2021 Acrobat Reader DC
	Print Driver	Microsoft Office Excel 2021 Not Specified
	Test files and location	Office category files, hard drive

**ISO/IEC 17629:2013 First Print Out Time Report: Office Category**

Full Detailed Test Report - LETTER  
 HP LaserJet Managed MFP E82670dn

Printing device and settings	
Test Start Date and Time	6/7/2023 9:05
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82670dn
Colour or B&W	B&W
FW Version	2506068_035016
Configuration (options)	Default
Controller	NA
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	74 degF / 24 degC 47 %rH
Voltage	220V
Test End Date and Time	6/16/2023 11:08

Item	Value
<b>Mode and Setting</b>	
PDL and driver version	HP Smart Universal Printing (V4), 2.7.1.1569
Print Quality mode	default
B&W settings	default
Paper feed orientation	Short Edge
<b>Paper</b>	
Paper type setting	default
Paper feeding	Standard cassette
Paper exit	Standard extl tray
<b>Paper Path</b>	
Output orientation	default (face up or face down)

ISO First Page Out Time Summary Report: Office Category		
Summary Report: Letter		
		<b>FPOT from Ready (seconds)</b>
<b>B&amp;W</b>	Simplex	5.60
	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 <a href="https://www.hp.com/us-en/printers/printing-speed-test-reports.html">https://www.hp.com/us-en/printers/printing-speed-test-reports.html</a> .		
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
<b>Color Mode</b>	FPOT from Ready - Simplex					
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			N/A		
	Recovery Time					
	FPOT from Off - Simplex					
	Warm-up Time					
<b>B&amp;W Mode</b>	FPOT from Ready - Simplex	6.11	5.43	5.26	5.60	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			10.78		76 Minutes
	Recovery Time			5.5		
	FPOT from Off - Simplex			91.73		
	Warm-up Time			86.47		
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 <a href="https://www.hp.com/us-en/printers/printing-speed-test-reports.html">https://www.hp.com/us-en/printers/printing-speed-test-reports.html</a> .						
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
<b>Color Mode</b>	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 Ready, HP High Speed HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	
<b>B&amp;W Mode</b>	FPOT from Sleep	10.78	10.73	10.83	N/A	Adobe Reader	76 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	8.89	8.65	9.12	N/A	Adobe Reader	15 Minutes

Test System Parameters		
Item	Value	
<b>Test System</b>	Computer	HP Z2 Tower G8 Workstation
	Processor	Intel Core i7 11700K@3600GHz
	System Chip Set	Intel SKL/KBL Mobile/Desktop
	System Board	system devices, default system BIOS
	System Memory	16 GB
	Hard Drive Subsystem	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	HP HLDS DVD/DRW GUD1N
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
<b>Printing Device Connection</b>	TCP/IP	10/1000
<b>Software</b>	Operating System	Win 10 Enterprise 64 Bit (21H2)
	Printing Applications	Microsoft Office 2021
	Print Driver	Adobe Reader DC HP Smart Universal Printing (V4), 2.7.1.1569

**ISO/IEC 17629:2013 First Print Out Time Report: Office Category**

Full Detailed Test Report - A4

HP LaserJet Managed MFP E82670dn

Printing device and settings		
Test Start Date and Time	6/7/2023 9:05	
Tester	LEP	
Machine name/model	HP LaserJet Managed MFP E82670dn	
Colour or B&W	B&W	
FW Version	2506068_035016	
Configuration (options)	Default	
Controller	NA	
Printing device page count	Not Specified	
Printing supplies page count	Not Specified	
Temperature and Humidity	74 degF / 24 degC 47 %rH	
Voltage	220V	
Test End Date and Time	6/16/2023 11:08	

Item	Value
<b>Mode and Setting</b>	
PDL and driver version	HP Smart Universal Printing (V4), 2.7.1.1569
Print Quality mode	default
B&W settings	default
Paper feed orientation	Short Edge
<b>Paper</b>	
Paper type setting	default
Paper feeding	Standard cassette
Paper exit	Standard ext tray
<b>Paper Path</b>	
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>B&amp;W</b>	Simplex	5.58
	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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
  - 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: A4						
		Word (seconds)	Excel (seconds)	Adobe Reader (seconds)	Average (seconds)	Delay Time
<b>Color Mode</b>	FPOT from Ready - Simplex					
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			N/A		
	Recovery Time					
	FPOT from Off - Simplex					
	Warm-up Time					
<b>B&amp;W Mode</b>	FPOT from Ready - Simplex	6.08	5.39	5.26	5.58	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			10.80		76 Minutes
	Recovery Time			5.5		
	FPOT from Off - Simplex			86.94		
	Warm-up Time			81.68		

- 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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
  - 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: A4							
		FPOT Avg (secs)	FPOT (secs) Iteration 1	FPOT (secs) Iteration 2	FPOT (secs) Iteration 3	Application	Delay Time
<b>Color Mode</b>	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 Ready, HP High Speed HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	
<b>B&amp;W Mode</b>	FPOT from Sleep	10.80	10.79	10.81	N/A	Adobe Reader	76 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	9.19	9.09	9.29	N/A	Adobe Reader	15 Minutes

Test System Parameters		
Item	Value	
<b>Test System</b>	Computer	HP Z2 Tower G8 Workstation
	Processor	Intel Core i7 11700K@3600GHz
	System Chip Set	Intel SKL/KBL Mobile/Desktop
	System Board	_system devices, default system BIOS
	System Memory	16 GB
	Hard Drive Subsystem	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	HP HLDS DVD/DRW GUD1N
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
<b>Printing Device Connection</b>	TCP/IP	10/1000
<b>Software</b>	Operating System	Win 10 Enterprise 64 Bit (21H2)
	Printing Applications	Microsoft Office 2021
	Print Driver	HP Smart Universal Printing (V4), 2.7.1.1569

# ISO/IEC 29183 Copy Productivity Report

## Full Detailed Test Report - LETTER

HP LaserJet Managed MFP E82670dn

Machine Setup Information	
Test Start Date and Time	6/9/2023 14:23
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82670dn
Colour or B&W	B&W
FW Version	2506068_035016
Configuration (options)	Not Specified
Temperature and Humidity	74 degF / 24 degC 47 %rH
Test End Date and Time:	10/31/2023 16:32

	Pre-set Item	Pre-set Value
<b>Mode</b>	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
<b>Paper</b>	Paper Sending Direction	Default
	Paper Type Setting	Default
<b>Paper Path</b>	Paper Feeding	Tray 2
	Paper Exit	Default
	Face Up Exit	Default (face down)
<b>Temporary Stop</b>	Fixing Capability	Default
	Image Quality Stability	Default
	Capacity of Paper	Default
	Others	None

<b>Paper</b>	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: <b>Letter</b>		
	sFCOT	sESAT (ipm)
<b>B&amp;W</b>	2.87	70.52

Notes  
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information, see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>. 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: <b>LETTER</b>						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
<b>B&amp;W</b>	A	2.87	20.90	64.40 39 sets	69.72 301 sets	70.52
	B					
	C					
	D					
	Average	2.87	20.90	64.40	69.72	70.52

Notes  
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information, see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>. 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



# ISO/IEC 29183 Copy Productivity Report

## Full Detailed Test Report - A4

HP LaserJet Managed MFP E82670dn

Machine Setup Information	
Test Start Date and Time	6/9/2023 14:23
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82670dn
Colour or B&W	B&W
FW Version	2506068_035016
Configuration (options)	Not Specified
Temperature and Humidity	74 degF / 24 degC 47 %rH
Test End Date and Time:	10/31/2023 16:32

	Pre-set Item	Pre-set Value
<b>Mode</b>	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
<b>Paper</b>	Paper Sending Direction	Default
	Paper Type Setting	Default
<b>Paper Path</b>	Paper Feeding	Tray 2
	Paper Exit	Default
	Face Up Exit	Default (face down)
<b>Temporary Stop</b>	Fixing Capability	Default
	Image Quality Stability	Default
	Capacity of Paper	Default
	Others	None

<b>Paper</b>	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>B&amp;W</b>	2.87	70.54

Notes  
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information, see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>. 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>B&amp;W</b>	A	2.87	20.90	64.47 39 sets	69.69 301 sets	70.54
	B					
	C					
	D					
	Average	2.87	20.90	64.47	69.69	70.54

Notes  
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information, see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>. 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

# ISO/IEC 24735 Copy Productivity Report

Full Detailed Test Report - LETTER

Machine Setup Information	
Test Start Date and Time	6/12/2023 14:19
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82670dn
Colour or B&W	B&W
FW Version	2506068_035016
Configuration (options)	Not Specified
Temperature and Humidity	74 degF / 24 degC 47 %rH
Test End Date and Time:	6/14/2023 10:26

Pre-set Item	Pre-set Value
Output Resolution	Default
Output Quality	Default
Copying Mode	Default
Auto Density Adjustment	Default
Collating function	Activated (if not activated in default mode)
Paper Sending Direction	Default
Paper Type Setting	Default
Paper Feeding	Standard cassette
Paper Exit	Standard exit tray
Face Up Exit	Default
Fixing Capability	Default
Image Quality Stability	Default
Capacity of Paper	Default
Others	Default

Paper Manufacturer	HP/Xerox
Paper Weight	20lb / 75 g/m2
Paper Size	LTR / A4 / LGL / LGR / A3

## ISO/IEC 24735 Copy Productivity Report

Detailed Report: LETTER

	Copying Mode	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
		1 set only	1 set only	1 set + 30sec	1 set + 4min	1 set + 30sec
Color Mode	1:1		( 1 set )			
	1:2		( 1 set )			
	2:2		( 1 set )			
B&W mode	1:1	7.72	31.08	60.78 10 sets	69.33 72 sets	70.55
	1:2	12.94	18.54	55.12 10 sets	67.86 73 sets	70.80
	2:2	12.72	18.86	55.58 10 sets	68.22 72 sets	70.82

Notes

Reports located: <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.  
Productivity has been determined in accordance to ISO/IEC 24735:2010

# ISO/IEC 24735 Copy Productivity Report

## Full Detailed Test Report - A4

Machine Setup Information	
Test Start Date and Time	6/12/2023 14:19
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82670dn
Colour or B&W	B&W
FW Version	2506068_035016
Configuration (options)	Not Specified
Temperature and Humidity	74 degF / 24 degC 47 %rH
Test End Date and Time:	6/14/2023 10:26
Pre-set Item	
Pre-set Value	
Output Resolution	Default
Output Quality	Default
Copying Mode	Default
Auto Density Adjustment	Default
Collating function	Activated (if not activated in default mode)
Paper Sending Direction	Default
Paper Type Setting	Default
Paper Feeding	Standard cassette
Paper Exit	Standard exit tray
Face Up Exit	Default
Fixing Capability	Default
Image Quality Stability	Default
Capacity of Paper	Default
Others	Default
Paper Manufacturer	HP/Xerox
Paper Weight	20lb / 75 g/m2
Paper Size	LTR / A4 / LGL / LGR / A3

ISO/IEC 24735 Copy Productivity Report						
Detailed Report: A4						
	Copying Mode	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
		1 set only	1 set only	1 set + 30sec	1 set + 4min	1 set + 30sec
Colour Mode	1:1		( 1 set )			
	1:2		( 1 set )			
	2:2		( 1 set )			
B&W mode	1:1	7.69	31.22	62.62	69.33	70.54
				10 sets	72 sets	
	1:2	12.85	18.66	49.72	68.18	70.82
				10 sets	72 sets	
	2:2	12.64	18.98	55.54	68.18	70.80
				10 sets	72 sets	

Notes  
 Reports located: <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.  
 Productivity has been determined in accordance to ISO/IEC 24735:2010

**ISO/IEC 17991 Scanning Productivity Report**

**Full Detailed Test Report - LETTER**

Machine Setup Information	
Test Start Date and Time	6/14/2023 10:34
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82670dn
Colour or B&W	B&W
Configuration (options)	Default
Temperature and Humidity	75 degF / 24 degC 47 %rH
Voltage	220V
Test End Date and Time	6/14/2023 14:52

Mode and Setting	Preset Item	Preset Value
		Scanning resolution
	Colour or grey scale/B&W	default (colour)
	Duplex / simplex	default (simplex)
	Original page size	default (A4)
	Paper feed orientation	default (long edge)
	Scan destination	default (shared network)
	Storing File Type	default (PDF-multi)
	Auto scan quality adjustment	default (factory preset default setting)
ADF	Paper feed direction	default (long edge)
Paper-path	Output orientation	default
	Scanning unit	default (duplex ADF)

**ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement**

Summary Report: Letter

	Scanning Mode			Measurement result
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	94.71
			double sided	188.90
B&W	PDF 1.4	200	single sided	94.57
			double sided	189.20

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

**ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement**

Summary Report: Letter

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	82.17	3.56	14.00
			double sided	159.60	6.43	25.00
B&W	PDF 1.4	200	single sided	81.14	2.63	13.00
			double sided	160.73	5.47	26.00

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

**ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement**

Summary Report: Letter

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 1setA (ipm)	scEFTP 30secA (ipm)	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	50.89	89.7	94.71
			double sided	67.89	176.72	188.9
B&W	PDF 1.4	200	single sided	52.11	89.1	94.57
			double sided	68.37	177.37	189.2

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

**ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement**

Summary Report: Letter

	Scanning Mode			Measurement result			
	File format version	Resolution	Scanning side	scEFTP 1setF (ipm)	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	29.42	82.17	3.56	14
			double sided	33.60	159.60	6.43	25
B&W	PDF 1.4	200	single sided	29.92	81.14	2.63	13
			double sided	33.70	160.73	5.47	26

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

Test System Parameters		
	Item	Value
System	Computer name	HP Z2 Tower G8 Workstation
	Processor	Intel Core i7 11700K@3600GHz
	System Chip Set	Intel SKL/KBL Mobile/Desktop
	System Board	system devices, default system BIOS
	System Memory	16 GB
	Hard Drive Subsystem	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	HP HLDS DVDRW GUD1N
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
	Operating System	Win 10 Enterprise 64 Bit (21H2)
Scanning Device Connection	Location of network folder	PC
	Internet Protocol	IPv4
	Transfer Protocol	SMB
	Hub	Trendnet Router and Gbit Switch
	Network Speed	TCP 10/1000 Mbit Ethernet
	Connction Cable	Cat6 Straight cable
	Wireless router	No use
Others	No use	

**ISO/IEC 17991 Scanning Productivity Report**

**Full Detailed Test Report - A4**

Machine Setup Information	
Test Start Date and Time	6/14/2023 10:34
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82670dn
Colour or B&W	B&W
Configuration (options)	Default
Temperature and Humidity	75 degF / 24 degC 47 %rH
Voltage	220V
Test End Date and Time	6/14/2023 14:52

Mode and Setting	Preset Item	Preset Value
	Scanning resolution	default (200 dpi)
	Colour or grey scale/B&W	default (colour)
	Duplex / simplex	default (simplex)
	Original page size	default (A4)
	Paper feed orientation	default (long edge)
	Scan destination	default (shared network)
	Storing File Type	default (PDF-multi)
	Auto scan quality adjustment	default (factory preset default setting)
ADF Paper-path	Paper feed direction	default (long edge)
	Output orientation	default
	Scanning unit	default (duplex ADF)

**ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement**

Summary Report: A4

	Scanning Mode			Measurement result scESAT 30secA (ipm)
	File format version	Resolution	Scanning side	
Colour	PDF 1.4	200	single sided	95.60
			double sided	189.18
B&W	PDF 1.4	200	single sided	96.53
			double sided	189.95

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

**ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement**

Summary Report: A4

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	82.95	3.39	14.00
			double sided	160.14	6.41	25.00
B&W	PDF 1.4	200	single sided	83.48	2.75	14.00
			double sided	161.24	5.37	26.00

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

**ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement**

Summary Report: A4

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 1setA (ipm)	scEFTP 30secA (ipm)	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	51.78	90.64	95.6
			double sided	68.37	177.3	189.18
B&W	PDF 1.4	200	single sided	52.00	91.27	96.53
			double sided	66.94	177.89	189.95

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

**ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement**

Summary Report: A4

	Scanning Mode			Measurement result			
	File format version	Resolution	Scanning side	scEFTP 1setF (ipm)	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	29.75	82.95	3.39	14
			double sided	33.67	160.14	6.41	25
B&W	PDF 1.4	200	single sided	29.90	83.48	2.75	14
			double sided	33.35	161.24	5.37	26

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

Test System Parameters		
Item	Value	
System	Computer name	HP Z2 Tower G8 Workstation
	Processor	Intel Core i7 11700K @3600GHz
	System Chip Set	Intel SKL/KBL Mobile/Desktop system devices, default system BIOS
	System Board	16 GB
	System Memory	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
	Hard Drive Subsystem	Microsoft Basic Display Adaptor
	Video Subsystem	HP HLDS DVDRW GUD1N
	Optical Drive	Builtin
	I/O Subsystem	USB 2.0/3.0
	Operating System	Win 10 Enterprise 64 Bit (21H2)
Scanning Device Connection	Location of network folder	PC
	Internet Protocol	IPv4
	Transfer Protocol	SMB
	Hub	Trendnet Router and Gbit Switch
	Network Speed	TCP 10/1000 Mbit Ethernet
	Connction Cable	Cat6 Straight cable
	Wireless router	No use
Others	No use	

**ISO/IEC 17991 Scanning Productivity Report**

**Full Detailed Test Report - Tabloid**

Machine Setup Information	
Test Start Date and Time	6/14/2023 10:34
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82670dn
Colour or B&W	B&W
Configuration (options)	Default
Temperature and Humidity	75 degF / 24 degC 47 %rH
Voltage	220V
Test End Date and Time	6/14/2023 14:52

Mode and Setting	Preset Item	Preset Value
	Scanning resolution	default (200 dpi)
	Colour or grey scale/B&W	default (colour)
	Duplex / simplex	default (simplex)
	Original page size	default (A4)
	Paper feed orientation	default (long edge)
	Scan destination	default (shared network)
	Storing File Type	default (PDF-multi)
	Auto scan quality adjustment	default (factory preset default setting)
	ADF Paper-path	Paper feed direction
	Output orientation	default
	Scanning unit	default (duplex ADF)

**ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement**

Summary Report: Tabloid

	Scanning Mode			Measurement result
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	52.87
			double sided	104.20
B&W	PDF 1.4	200	single sided	52.72
			double sided	104.02

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

**ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement**

Summary Report: Tabloid

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	45.86	3.56	8.00
			double sided	89.25	7.40	15.00
B&W	PDF 1.4	200	single sided	45.79	2.84	8.00
			double sided	89.13	6.35	15.00

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

**ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement**

Summary Report: Tabloid

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 1setA (ipm)	scEFTP 30secA (ipm)	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	36.06	49.97	52.87
			double sided	52.62	98.04	104.2
B&W	PDF 1.4	200	single sided	36.14	49.89	52.72
			double sided	52.35	97.91	104.02

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

**ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement**

Summary Report: Tabloid

	Scanning Mode			Measurement result			
	File format version	Resolution	Scanning side	scEFTP 1setF (ipm)	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	23.80	45.86	3.56	8
			double sided	29.38	89.25	7.40	15
B&W	PDF 1.4	200	single sided	23.82	45.79	2.84	8
			double sided	29.18	89.13	6.35	15

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

Test System Parameters		
Item	Value	
System	Computer name	HP Z2 Tower G8 Workstation
	Processor	Intel Core i7 11700K @3600GHz
	System Chip Set	Intel SKL/KBL Mobile/Desktop
	System Board	system devices, default system BIOS
	System Memory	16 GB
	Hard Drive Subsystem	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	HP HLDS DVD RW GUD1N
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
	Operating System	Win 10 Enterprise 64 Bit (21H2)
Scanning Device Connection	Location of network folder	PC
	Internet Protocol	IPv4
	Transfer Protocol	SMB
	Hub	Trendnet Router and Gbit Switch
	Network Speed	TCP 10/1000 Mbit Ethernet
	Connction Cable	Cat6 Straight cable
	Wireless router	No use
Others	No use	

**ISO/IEC 17991 Scanning Productivity Report**

**Full Detailed Test Report - A3**

Machine Setup Information	
Test Start Date and Time	6/14/2023 10:34
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82670dn
Colour or B&W	B&W
Configuration (options)	Default
Temperature and Humidity	75 degF / 24 degC 47 %rH
Voltage	220V
Test End Date and Time	6/14/2023 14:52

	Preset Item	Preset Value
Mode and Setting	Scanning resolution	default (200 dpi)
	Colour or grey scale/B&W	default (colour)
	Duplex / simplex	default (simplex)
	Original page size	default (A4)
	Paper feed orientation	default (long edge)
	Scan destination	default (shared network)
	Storing File Type	default (PDF-multi)
	Auto scan quality adjustment	default (factory preset default setting)
	ADF Paper-path	Paper feed direction
Output orientation		default
Scanning unit		default (duplex ADF)

**ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement**

Summary Report: A3

	Scanning Mode			Measurement result
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	53.89
			double sided	106.66
B&W	PDF 1.4	200	single sided	54.07
			double sided	106.81

Notes  
 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.  
 2) For the B/W results, the device scan setting is set to "Scan in B/W".  
 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

**ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement**

Summary Report: A3

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	46.66	3.41	8.00
			double sided	91.19	7.43	15.00
B&W	PDF 1.4	200	single sided	46.75	2.84	8.00
			double sided	91.23	6.08	15.00

Notes  
 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.  
 2) For the B/W results, the device scan setting is set to "Scan in B/W".  
 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

**ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement**

Summary Report: A3

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 1setA (ipm)	scEFTP 30secA (ipm)	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	36.58	50.91	53.89
			double sided	53.08	100.21	106.66
B&W	PDF 1.4	200	single sided	36.49	51.03	54.07
			double sided	52.57	100.26	106.81

Notes  
 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.  
 2) For the B/W results, the device scan setting is set to "Scan in B/W".  
 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

**ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement**

Summary Report: A3

	Scanning Mode			Measurement result			
	File format version	Resolution	Scanning side	scEFTP 1setF (ipm)	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	24.04	46.66	3.41	8
			double sided	29.81	91.19	7.43	15
B&W	PDF 1.4	200	single sided	23.97	46.75	2.84	8
			double sided	29.60	91.23	6.08	15

Notes  
 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.  
 2) For the B/W results, the device scan setting is set to "Scan in B/W".  
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	Item	Value
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	Hard Drive Subsystem	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	HP HLDS DVD/DRW GUD1N
	I/O Subsystem	Builtin
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	Operating System	Win 10 Enterprise 64 Bit (21H2)
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	Hub	Trendnet Router and Gbit Switch
	Network Speed	TCP 10/1000 Mbit Ethernet
	Connection Cable	Cat6 Straight cable
	Wireless router	No use
Others	No use	