Data sheet



# HP LaserJet Managed MFP E52645 series

## Redefine long-term expectations

Choose an HP LaserJet Enterprise MFP designed to handle business solutions securely and efficiently, and helps conserve energy with HP JetIntelligence toner. Keep up with the demands of growing business with a printer you can rely on.



HP LaserJet Managed MFP E52645dn



HP LaserJet Managed Flow MFP E52645c

Dynamic security enabled printer. Only intended to be used with cartridges using an HP original chip. Cartridges using a non-HP chip may not work, and those that work today may not work in the future.





w energy

## The world's most secure printing<sup>1</sup>

- Each printer in your fleet checks its operating code and repairs itself from attacks.
- Your printer's outgoing network connections are inspected to stop suspicious requests and thwart malware.
- Memory activity is monitored to continually detect and stop attacks.
- Firmware is automatically checked during startup to determine if it's authentic code digitally signed by HP.

## Low costs, low energy use

- Avoid frustrating reprints, wasted supplies, and service calls using Original HP Toner cartridges.
- Spend less time replacing toner, and more on business. Choose optional high-yield toner cartridges.  $^{\rm 2}$
- Save energy intelligent power features prepare you to print right away, and turn your unused MFP  $\rm off.^3$
- This MFP fits in tight places to boost performance in almost any workspace.

## A whole fleet at your control

- Centralise control of your printing environment with HP Web Jetadmin<sup>4</sup> and help build business efficiency.
- Gain insights into print costs, behaviors, utilization to drive efficiencies with this cloudbased printer.
- Set security configuration policies and automatically validate settings for every HP printer in your fleet.<sup>5</sup>

#### Give workgroups the speed they need

- Help workgroups capture every page easily and detect potential errors or missed pages every time.
- Enter data more quickly and accurately using the pull-out keyboard.
- Help ensure every scanned document is properly oriented, cropped to size, and grayscale-optimised.
- Load up to 100 pages into the automatic document feeder for fast, unattended scanning.

## Product walkaround

## HP LaserJet Managed Flow MFP E52645c shown

- 1. 100-sheet ADF with single-pass, two-sided scanning and HP EveryPage
- 2. 2nd generation Hardware Integration Pocket
- 3. Easy-access USB port
- 4.250-sheet output bin
- 5. Top cover (access to Original HP JetIntelligence Toner cartridge)
- 6. 100-sheet multipurpose tray 1 supports media sizes up to 216 x 356 mm  $\,$
- 7. 550-sheet input tray 2 supports media sizes up to 216 x 356 mm
- 8. 20.3 cm pivoting colour touchscreen
- 9. Pull-out keyboard
- 10. Convenience stapler
- 11. Automatic two-sided printing
- 12. HP High-Performance Secure Hard Disk
- 13. Slot for cable-type security lock
- 14. Gigabit Ethernet
- 15. Hi-Speed USB 2.0 printing port
- 16. USB port for connecting external USB devices



## Series at a glance





Model	HP LaserJet Managed MFP E52645dn	HP LaserJet Managed Flow MFP E52645c
Product number	1PS54A	1PS55A
Functions	Print, scan, copy (fax optional)	
Print speed (black)	Up to 43 pages per minute (ppm) (A4)	
First page out (from ready)	As fast as 5.9 seconds (A4)	
250 page ADF with single-pass, two-sided scanning	Yes	
100 sheet multipurpose tray 1, 550 sheet input tray 2	Yes	
Optional 550 sheet input tray	Add up to 3	
Optional printer cabinet	Yes	
Input capacity (standard/maximum)	Up to 650/2,300 sheets	
Advanced workflow features, including pull- out keyboard and HP EveryPage	Yes	Not available
Convenience stapler	Yes	Not available
HP High-Performance Secure Hard Disk	Yes	Optional
Recommended monthly page volume	4,000 to 15,000 pages	
Managed Cartridge yields	Black: 23,000 pages	
Optional wireless printing/NFC touch-to-print	Yes	

# Accessories, Supplies and Support

Supplies	W9008MC HP Black Managed LaserJet Toner Cartridge (23,000 pages)	
Accessories	2EH31A HP MFP Analog Fax Accessory 700	
	2NR12A HP Removable Hard Drive Enclosure	
	B5L31A HP Foreign Interface Harness	
	F2A72A HP LaserJet 550-sheet Paper Tray	
	F2A73A HP LaserJet Printer Cabinet	
	J8030A HP Jetdirect 3000w NFC/Wireless Accessory	
Service and Support	UB7D2E HP 3 years Next Business Day with Defective Media Retention for LaserJet Managed E52645 Service UB7D3E HP 4 years Next Business Day with Defective Media Retention for LaserJet Managed E52645 Service UB7D4E HP 5 years Next Business Day with Defective Media Retention for LaserJet Managed E52645 Service UB7E1PE HP 1 year Post Warranty Next Business Day with Defective Media Retention for LaserJet Managed E52645 Service UB7E2PE HP 2 years Post Warranty Next Business Day with Defective Media Retention for LaserJet Managed E52645 Service	

# Technical specifications

Model	HP LaserJet Managed MFP E52645dn	HP LaserJet Managed Flow MFP E52645c	
Product number	1PS54A	1PS55A	
Functions	Print, copy, scan and optional fax		
Control panel	20.3 cm (8.0 in) colour LCD with touchscreen; Rotating (adjustable angle) display; Illuminated Home button (for quick return to the Home menu)	20.3 cm (8.0 in) colour LCD with touchscreen; Rotating (adjustable angle) display; Illuminated Home button (for quick return to the Home menu); Integrated keyboard	
Print		-	
Print technology	Laser		
Print speed <sup>1</sup>	Black (A4, normal) Up to 43 ppm; Black (A4, duplex): Up to 34 ipm;		
First page out <sup>2</sup>	Black (A4, ready): As fast as 5.2 sec; Black (A4, sleep): As fast as 6.7 sec;		
Print resolution	Black (best): Up to 1200 x 1200 dpi; Technology: 300 dpi, 600 dpi, HP FastRes 1200, HP ProRes 1200;		
Monthly duty cycle	Up to 150,000 pages A4; Recommended monthly page volume <sup>3</sup> : 4,000 to 15,000		
Printer smart software features	Print preview, duplex printing, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs, easy-access USB		
Standard print languages	HP PCL 6, HP PCL 5 (HP PCL 5 driver available from the Web only), HP postscript level 3 emulation, native PDF printing (v 1.7), Apple AirPrint™		
Fonts and typefaces	105 internal TrueType fonts scalable in HP PCL, 92 internal scalable fonts in HP postscript Level 3 emulation (Euro symbol built-in); 1 internal Unicode Fonts (Andale Mono World Type); 2 Internal Windows Vista 8 Fonts (Calibri, Cambria); Additional font solutions available via third-party flash memory card HP LaserJet Fonts and IPDS Emulation available at http://www.hp.com/go/laserjetfonts		
Print area	Print margins Top: 4.3 mm, Bottom: 4.3 mm, Left: 4.3 mm, Right: 4.3 mm; Maximum print area: 212 x 352 mm		
Duplex printing	Automatic (standard)		
Сору	·		
Copy speed <sup>4</sup>	Black (A4): Up to 43 cpm		
Copier specifications	Two-sided copying; Scalability; Image adjustments (darkness, contrast, background cleanup, sharpness); N-up; N or Z-ordering; content orientation; Collation; Booklet; Job build; Edge-to-edge job storage; ID copy; Book copy; A-to-B copy (different media sizes); Maximum number of copies: Up to 9999 copies; Reduce/Enlarge: 25 to 400%;		
Scan	·		
Scan speed <sup>5</sup>	Normal (A4): Up to 43 ppm/43 ipm (black and white), up to 38 ppm/38 ipm (colour); Duplex (A4): Up to 43 ipm (black and white), up to 38 ipm (colour)	Normal (A4): Up to 45 ppm/64 ipm (black and white), up to 45 ppm/58 ipm (colour); Duplex (A4): Up to 64 ipm (black and white), up to 58 ipm (colour)	
Scan file format	PDF, JPEG, TIFF, MTIFF, ×PS, PDF/A	Digital Send: PDF, JPEG, TIFF, MTIFF, xPS, PDF/A, TExT (OCR), Unicode TExT (OCR), RTF (OCR), Searchable PDF (OCR), Searchable PDF/A (OCR), HTML (OCR), CSV (OCR); Scan to easy access USB: PDF, JPEG, TIFF, MTIFF, xPS, PDF/A, TExT (OCR), Unicode TExT (OCR), RTF (OCR), Searchable PDF (OCR), Searchable PDF/A (OCR), HTML (OCR), CSV (OCR); Print from easy access USB: PDF, PS, Print Ready files (.prn, .pcl, .cht)	
Scanner specifications	Scanner type: Flatbed, ADF; Scan technology: Contact Image Sensor (CIS); S Folder, Save to USB, Save to Device Memory, Open Extensibility Platform (O: size maximum (flatbed): 216 x 356 mm; Optical scan resolution: Up to 600	(P) applications: <b>Duplex ADF scanning</b> : Yes, single pass duplex scanning: <b>Scan</b>	

Model	HP LaserJet Managed MFP E52645dn	HP LaserJet Managed Flow MFP E52645c
Product number	1PS54A	1PS55A
Scanner advanced features	Optimise text/picture; Image adjustments; Job build; Output quality setting; Selectable scan resolution 75 to 600 dpi; Auto detect colour; Edge Erase; Job notification; Blank page suppression; HP Quick Sets	Optimise text/picture; Image adjustments; Job build; Output quality setting; Selectable scan resolution 75 to 600 dpi; Auto detect colour; Edge Erase; Job notification; Blank page suppression; HP Quick Sets; HP EveryPage; Auto orientation; Embedded Optical Character Recognition (OCR); Auto crop to page; Auto-tone
Recommended monthly scan volume	4000 to 7000	8000 to 14,000
Scannable area	Maximum media size (flatbed): 216 x 356 mm; Minimum media size (ADF): 1	01.6 x 148 mm <b>Maximum media size (ADF)</b> : 216 x 864 mm
Bit depth/ Grey scale levels	24-bit / 256	
Digital sending	Standard: Scan to E-mail; Save-to-Network Folder; Save-to-USB drive; Send to FTP; Send to Internet Fax; Local Address Book; SMTP over SSL; Blank Page Removal; Edge Erase; Auto Colour Sense; Auto Crop To Content; Compact PDF ; Optional: Authentication; Digital fax (send to LAN, Internet); HP Digital Sending Software; Local Address Book; OCR; Send-to-folder; Send-to- printer; Send-to-workflow	Standard: Scan to E-mail; Save-to-Network Folder; Save-to-USB drive; Send to Sharepoint; Send to FTP; Send to LAN Fax; Send to Internet Fax; OCR; Local Address Book; SMTP over SSL; Blank Page Removal; Edge Erase; Auto Colour Sense; Auto Crop To Content; Compact PDF; Auto Tonescale; Auto Orientation; Multi-Pick Detect; Auto Straighten; Auto Crop To Page; Optional: Authentication; Digital fax (send to LAN, Internet); HP Digital Sending Software; Local Address Book; OCR; Send-to-folder; Send-to-printer; Send- to-workflow
Fax		
Fax	Optional,	Yes. 33.6 kbps
Fax specifications		Fax memory: Up to 500 pages; Fax resolution: Standard: 203 x 98 dpi; Fine: Up to 203 x 196 dpi; Superfine: Up to 203 x 392 or 300 x 300 dpi; Quick dialing: Up to 1000 numbers (each with 210 destinations);
Processor speed	1.2 GHz	
Connectivity		
Standard	1 Hi-Speed Device USB 2.0: 2 Hi-Speed USB 2.0 Host; 1 Gigabit Ethernet; 1 Hardware Integration Pocket	
Optional	HP Jetdirect 2900nw Print Server J8031A; HP Jetdirect 3000w NFC/Wireless	Accessory J8030A; HP Jetdirect 3100w BLE/NFC/Wireless Accessory 3JN69A
Wireless	Optional, enabled with purchase of a wireless hardware accessory. Single band Wireless Station and Wi-Fi Direct functionality available with HP Jetdirect 3000w NFC/Wireless Accessory J8030A, Dual band Wireless Station and Wi-Fi Direct functionality available with HP Jetdirect Accessory 3JN69A, Dual band Wireless Station functionality available with HP Jetdirect 2000nw Print Server J8031A	
Mobile printing capability <sup>6</sup>	Apple AirPrint™: Google Cloud Print™: HP ePrint: Mopria™ Certified; Roam capable for easy printing	
Supported network protocols	Via built-in networking solution: TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode, LPD (raw queue support only), Web Services Printing, IPP 2.0, App AirPrint <sup>TM</sup> , HP ePrint, FTP Print, Google Cloud Print; Discovery; SLP, Bonjour, Web Services Discovery; IP Config: IPv4 (BootP, DHCP, AutoIP, Manual, TFTP Config, ARP-Ping), IPv6 (Stateless Link-Local and via Router, Stateful via DHCPv6); Management: SNMPv2/v3, HTTP/HTTPs, Telnet, TFTP Config, Syslog; Security: SNMPv3, SSL Cert Management, IPSec/Firewall, ACL, 802.1x	
Hard disk	16 GB EMMC	Standard, minimum 320 GB HP High-Performance Secure Hard Disk (AES 256 hardware encryption or greater)
Memory	Standard: 1.25 GB (printer); 500 MB (Scanner); Maximum: 2.75 GB Max mem	ory, when Accessory DIMM is installed
Media handling		
Number of paper trays	Standard: 2 ; Maximum: 5	
Media types	Paper (bond, colour, plain, preprinted, prepunched, recycled, rough); Envelopes; Labels; Cardstock; Transparencies; User-defined	
Media size	Custom (metric): Tray 1: 76.2 x 127 to 215.9 x 355.6 mm; Tray 2: 105 x 148 to 215.9 x 355.6 mm; Optional 550 sheet Tray: 105 x 148 to 215.9 x 355.6 mm; Supported (metric): Tray 1: A4, A5, A6, RA4, B5 (JIS), B6 (JIS), 10 x 15 cm, Oficio (216 x 340), 16K, postcards (JIS single and double), envelopes (B5, C5, C6, DL); Tray 2: A4, A5, A6, RA4, B5 (JIS), B6 (JIS), 10 x 15 cm, Oficio (216 x 340), 16K, postcards (JIS single and double), envelopes (B5, C5, C6, DL); Tray 2: A4, A5, A6, RA4, B5 (JIS), B6 (JIS), 10 x 15 cm, Oficio (216 x 340), 16K, postcards (JIS obtional 550 sheet Tray: A4, A5, A6, RA4, B5 (JIS), B6 (JIS), B6 (JIS), B6 (JIS), 07 (J	
Media handling	Standard input: 100 sheet multipurpose Tray 1, 550 sheet input Tray 2, automatic duplex printing Standard output: 250 sheet output bin Optional input: Optional 550 sheet tray (add up to 3 trays) ADF: Standard, 100 sheets	Standard input: 100 sheet multipurpose Tray 1, 550 sheet input Tray 2, automatic duplex printing Standard output: 250 sheet output bin, convenience stapler Optional input: Optional 550 sheet tray (add up to 3 trays) ADF: Standard, 100 sheets
Media weight	Tray 1:60 to 199 g/m <sup>2</sup> ; tray 2, 3:60 to 120 g/m <sup>2</sup> ; <b>ADF</b> : 45 to 200 g/m <sup>2</sup>	

Model	HP LaserJet Managed MFP E52645dn	HP LaserJet Managed Flow MFP E52645c	
Product number	1PS54A	1PS55A	
Input capacity	Tray 1: Sheets: 100; Transparencies: 50; Envelopes: 10 Tray 2: Sheets: 550 Tray 3: Sheets: 550 Maximum: Up to 2,300 sheets ADF: Standard, 100 sheets		
Output capacity	Standard: Up to 250 sheets Envelopes: Up to 10 envelopes Transparencies: Up to 75 sheets Maximum: Up to 250 sheets		
Compatible operating systems <sup>7</sup>	Windows (Lient 05 (32/64-bit), Win10, Win8.1, Win 8 Basic, Win8 Pro, Win8 Enterprise, Win8 Enterprise N, Win7 Starter Edition SP1, UPD Win7 Ultimate, Mobile 0S, iOS, Android, Mac, Apple® macOS Sierra v10.12, Apple® macOS High Sierra v10.13, Apple® macOS Mojave v10.14, Discrete PCL6 Printer Driver, For more information on the supported operating systems go to http://www.support.hp.com, enter your product name and search, click on User Guides and enter your product name and search for User Guide, search for your (Product Name) User Guide, search for the Supported Operating Systems section, UPD PCL6 / PS Printer Drivers, Supported Operating systems, for more information on the supported operating systems see hhttp://www.hp.com/go/upd		
Compatible network operating systems	Windows Server 2008 R2 64-bit, Windows Server 2008 R2 64-bit (SP1), Windows Server 2012 64-bit, Windows Server 2012 R2 64-bit, Windows Server 2016 64-bit, Failover Cluster 2008 R2, Failover Cluster 2012 R2, Terminal server 2008 R2, Remote Desktop server 2012 R2, Citrix Server 6.5, Citrix xenApp & xenDesktop 7.6, Novell IPrint server, Citrix Ready Kit Certification - Up to Citrix Server 7.18 for more information see http://www.citrixready.citrix.com, Linux for more information see http://www.developers.hp.com/hp-linux-imaging-and-printing, Unix for more information see http://www.hp.com/go/unixmodelscripts, UPD PCL6 / PS Printer Drivers, Supported for Compatible Network Operating systems please see http://www.hp.com/go/upd		
Minimum system requirements	Windows: 2 GB available hard disk space, Internet connection, USB port, Internet browser. For additional OS hardware requirements see http://www.microsoft.com; Mac: 2 GB available hard disk space, Internet connection or USB port, OS hardware requirements see http://www.apple.com		
Software included	No software solutions are included in the Box, only on http://www.h	.com, http://www.123.hp.com	
Security management	Identity management: Kerberos authentication; LDAP authentication; 1000 user PIN codes; Optional HP and 3rd party advanced authentication solutions (e.g.: badge readers); Network: IPsec/firewall with Certificate; Pre-Shared Key and Kerberos authentication; Supports WJA-10 IPsec configuration Plug-in; 802.1x authentication (EAP-PEAP; EAP-TLS); SNMPv3; HTTPS; Certificates; Access Control List; Data: Storage Encryption; Encrypted PDF & Email (uses FIPS) 140 validated cryptographic libraries from Microsoft); Secure Erase; SSL/TLS (HTTPS); Encrypted Credentials; Device: Security lock slot; USB port disablement; hardware integration pocket for security solutions; Intrusion Detection with Red Balloon Security Technology - Constant in-device monitoring for attacks; SureStart Secure Boot - BIOS Integrity Checking with self-healing capability; Whitelisting - loads only known good code (DLLs, ExEs,); Connection Inspector - helps ensure network connections to device are safe, Security management: Compatible with HP JetAdvantage Security Manager, HP Printer Security Plugin for Microsoft SCCM, Device Security Syslog Messages processed and accessible in ArcSight, Splunk, and McAfee(ESM) SIEMs		
Printer management	HP Printer Assistant; HP Device Toolbox; HP Web JetAdmin Software; HP JetAdvantage Security Manager; HP SNMP Proxy Agent; HP WS Pro Proxy Agent; Printer Administrator Resource Kit for HP Universal Print Driver (Driver Configuration Utility - Driver employment Utility - Managed Printing Administrator)		
Dimensions and weight			
Printer dimensions (W x D x H)	Minimum 482 x 496 x 497 mm; Maximum: 507 x 631 x 497 mm;		
Package dimensions (W x D x H)	735 x 592 x 613 mm		
Printer weight <sup>8</sup>	21.41 kg	22.13 kg	
Package weight	27.0 kg	27.7 kg	
Operating environment	Temperature: 10 to 32.5°C; Humidity: 30 to 70% RH		
Storage conditions	Temperature: -20 to 40°C;		
Acoustics <sup>9</sup>	Acoustic power emissions: 6.8 B(A); Acoustic pressure emissions: 54		
Power <sup>10</sup>	Requirements: Input voltage: 220V to 240V nominal (+/-10%), 50 - 60 Hz nominal (+/-), 4 A; Consumption: 629 watts (Printing), 28.8 watts (Ready), 5.28 watts (Sleep), 0.74 watts (Auto-Off/Auto-On), LAN connection: 0.06 watts (Auto-Off), 0.06 watts (Off); Typical Electricity Consumption (TEC) <sup>11</sup> : Energy Star: 1.412 kWh/Week; Blue Angel: 1.414 kWh/Week; Power supply type: Built-in 115V or 220V Power Supply;		
Energy savings feature technology	HP Auto-On/Auto-Off Technology; Instant-on Technology; Instant-or	Сору	
Certifications <sup>12</sup>	CISPR 22:2008 (International) - Class A, CISPR32:2012 (Internationa A, EN 55032:2012 (EU) - Class A, EN 61000-3-2:2014, EN 61000-3- EN 55024:2010, EMC Directive 2014/30/EU, Issue 6 Class A, other E approvals as required by individual countries. ENERGY STAR® qualified; EPEAT® Silver; CECP; Blue Angel DE-UZ-20 Blue Angel compliant Yes, Blue Angel DE-UZ 205	<ul> <li>3:2013, A, EN 55032:2012 (EU) - Class A, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 55024:2010, EMC Directive 2014/30/EU, Issue 6 Class A, other EMC approvals as required by individual countries.</li> </ul>	
What's in the box <sup>13</sup>	HP LaserJet Managed MFP E52645dn; HP LaserJet Managed Regula flyer (CD replacement); Unpack flyer; Installation guide; Power cord; Warranty cards; Support flyers/phone number list	replacement); Unpack flyer; Installation guide; Power cord; Warranty cards; Support flyers/phone number list; Control panel overlay label sets (flow)	
Warranty	One-year, next-business day, onsite warranty. Warranty and support options vary by product, country and local legal requirements. Contact your Contractual Vendor or go to http://www.hp.com/support to learn about HP award winning service and support options in your region.		

#### Footnotes

<sup>1</sup> Based on HP review of 2018 published security features of competitive in-class printers. Only HP offers a combination of security features that can monitor to detect and automatically stop an attack then self-validate software integrity in a reboot. For a list of printers, visit hp.com/go/PrintersThatProtect. For more information: http://www.hp.com/go/printersecurityclaims.

<sup>2</sup> High Yield Black Original LaserJet Toner Cartridges not included, please purchase separately.

<sup>3</sup> HP Auto-On/Auto-Off Technology capabilities are subject to printer and settings.
 <sup>4</sup> HP Web Jetadmin is available for download at no additional charge at http://www.hp.com/go/webjetadmin.

<sup>5</sup> HP JetAdvantage Security Manager must be purchased separately. To learn more, please visit http://www.hp.com/go/securitymanager.

#### Technical specifications disclaimers

<sup>1</sup> Measured using ISO/IEC 24734, excludes first set of test documents. For more information see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity

<sup>2</sup> Measured using ISO/IEC 17629. For more information see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity. <sup>3</sup> HP recommends that the number of pages per month of imaged output be within the stated range for optimum device performance, based on factors including supplies replacement intervals and device life over an extended

warranty period. 4 First Copy Out from Ready and Simplex Copy Speed measured using ISO/IEC 29183, Duplex Copy Speed measured using ISO/IEC 24735, excludes first set of test documents. For more information see

http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application and document complexity.

<sup>5</sup> Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software.

<sup>6</sup> To enable HP Roam, some devices may require firmware to be upgraded and an optional accessory to add Bluetooth® Low Energy (BLE) beaconing capabilities. Customer can purchase the HP Jetdirect 3100w BLE/NFC/Wireless accessory or the RadBeacon USB. To enable HP Roam, some devices may require firmware to be upgraded and an optional accessory to add Bluetooth® Low Energy (BLE) beaconing capabilities. Subscription may be required. For more information, visit http://www.hp.com/go/roam.

<sup>7</sup> Solution software available on http://www.123.hp.com

#### <sup>8</sup> With print cartridges.

<sup>9</sup> Configuration tested: base model, simplex printing, A4 paper at an average of 43 ppm.

<sup>10</sup> Best TEC is not applicable to Energy Star 2.0 TEC. This measurement was made with the printer configuration optimised for energy efficiency. Minimum sleep delay was used, Wi-Fi Direct was disabled and Active I/O - Energy Efficient Ethernet - was used.

<sup>11</sup> Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty. Energy Star value typically based on measurement of 115V device.

<sup>12</sup> EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status by country.

1<sup>3</sup> In box cartridge yields 7,500 black pages based on ISO/IWC 19752 and continuous printing. Actual pages may vary considerably based on images printed and other factors. For more information, visit: http://www.hp.com/go/learnaboutsupplies.



