

# HP LaserJet Managed E50145dn (1PU51A)



## Overview

**Handle business solutions securely, plus help conserve energy with HP EcoSmart toner**

Choose an HP LaserJet Enterprise printer designed to handle business solutions securely and efficiently, and helps conserve energy with HP EcoSmart black toner. Keep up with the demands of growing business with a printer you can rely on.[9]

### **The world's most secure printing[1]**

Each printer in your fleet checks its operating code and repairs itself from attacks.

### **Your whole fleet. At your control.**

Centralize control of your printing environment with HP Web Jetadmin[5]—and help build business efficiency.

### **Low costs, low energy use**

Stay productive with reliable cartridges, and help save energy while printing with HP EcoSmart black toner.[8]

### **Enhanced productivity keeps business moving**

Submit print jobs on the go and securely release them at any HP Roam-enabled office printer, securely.[7]

# Features

Low energy consumption

World's most secure printing<sup>[1]</sup>

Robust mobility

Enhanced user interface

Enterprise manageability

Enhanced workflows

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*[1] 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 <http://www.hp.com/go/PrintersThatProtect>. For more information: <http://www.hp.com/go/printersecurityclaims>*

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

*[7] 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 [hp.com/go/roam](http://hp.com/go/roam)*

*[8] Based on HP testing using the ENERGY STAR® program's Typical Electricity Consumption (TEC) method or as reported in [energystar.gov](http://energystar.gov) as of May 2019. Actual results may vary. HP testing is based on using the default Sleep Timer setting for all products and using the Network port. Default Sleep Timer setting is 0 minutes. Increasing the Sleep Timer setting longer than the default value can increase TEC.*

## Specifications

<b>Print Resolution Technologies</b>	300 dpi, 600 dpi, HP FastRes 1200, HP ProRes 1200
<b>Print quality black (best)</b>	Up to 1200 x 1200 dpi
<b>Print speed black (ISO, A4)</b>	Up to 43 ppm (default) ; Up to 50 ppm (Hp High Speed)
<b>Print speed black (ISO, letter)</b>	Up to 45 ppm (default) ; Up to 52 ppm (HP High Speed)
<b>Print speed</b>	Print speed up to 45 ppm (black)
<b>Functions</b>	Print
<b>Duplex printing</b>	Automatic (standard)
<b>Duty cycle (monthly, A4)</b>	Up to 150,000 pages
<b>Duty cycle (monthly, letter)</b>	Up to 150,000 pages <sup>[5]</sup>
<b>Printer smart software features</b>	Print preview, duplex printing, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs, easy-access USB
<b>Energy savings feature technology</b>	HP Auto-On/Auto-Off Technology; Instant-on Technology
<b>Replacement cartridges</b>	HP Black Managed LaserJet Toner Cartridge (~23,000 pages) W9008MC
<b>Supplies feature</b>	HP JetIntelligence Cartridge
<b>Connectivity, standard</b>	2 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Gigabit Ethernet 10/100/1000T network
<b>Connectivity, optional</b>	Yes, via HP Jetdirect Ethernet embedded print server (standard) which supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gig Links; IPsec (standard); 802.11a/b/g/n wireless networking (optional); second Ethernet port (optional)
<b>Network capabilities</b>	HP Jetdirect 2900nw Print Server J8031A, HP Jetdirect 3000w NFC/Wireless Accessory J8030A, HP Jetdirect 3100w BLE/NFC/Wireless
<b>Wireless capability</b>	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 3100w BLE/NFC/Wireless Accessory 3JN69A, Dual band Wireless Station functionality available with HP Jetdirect 2900nw Print Server J8031A
<b>Mobile printing capability</b>	HP ePrint; Apple AirPrint™; Google Cloud Print™; Mopria™ Certified
<b>Network protocols, supported</b>	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, Apple AirPrint™, 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, Statefull via DHCPv6); Management: SNMPv2/v3, HTTP/HTTPS, Telnet, TFTP Config, Syslog; Security: SNMPv3, SSL Cert Management, IPSec/Firewall, ACL, 802.1x
<b>Software included</b>	No software solutions are included in the Box, only on <a href="http://hp.com">http://hp.com</a> , <a href="http://123.hp.com">http://123.hp.com</a>

<b>Compatible Operating Systems</b>	Windows 11; Windows 10; Windows 8; Windows 7; Windows Client OS; Android; iOS; Mobile OS; macOS 10.12 Sierra; macOS 10.13 High Sierra; macOS 10.14 Mojave
<b>Sustainable impact specifications</b>	Mercury free
<b>Energy star certified</b>	Yes
<b>Ecolabels</b>	Blue Angel; EPEAT® Silver; CECP; ENERGY STAR® qualified <sup>[10]</sup>
<b>Blue Angel compliant</b>	Yes, Blue Angel DE-UZ 219—only ensured when using Original HP supplies
<b>Display area (imperial)</b>	3.74 x 2.32 in
<b>Display area (metric)</b>	95.04 x 53.86 mm
<b>Display</b>	4.3-in (10.92 cm) Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle)
<b>Minimum dimensions (W x D x H)</b>	418 x 376 x 326 mm
<b>Minimum dimensions (W x D x H)</b>	16.46 x 14.80 x 12.83 in
<b>Weight</b>	11.48 kg <sup>[2]</sup> <i>(With print cartridges)</i>
<b>Weight</b>	25.5 lb <i>(With print cartridges)</i>
<b>Power consumption</b>	601 watts (Active Printing), 7.60 watts (Ready), 2.61 watts (Sleep), 0.06 watts (Auto-Off), 0.06 watts (Off), Auto Off/Wake on LAN 0.73 Watt <sup>[11]</sup>
<b>Power supply type</b>	Built-in 115V or 220V Power Supply
<b>What's in the box</b>	HP LaserJet Managed E50145dn Printer; Regulatory flyer; Unpack flyer; Installation Guide; Power cord; Warranty Cards; Support flyers/ phone number list <sup>[1]</sup>
<b>Manufacturer Warranty</b>	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 <a href="http://hp.com/support">hp.com/support</a> to learn about HP award winning service and support options in your region. (wty code 4G; wty ID A001)

## Additional specifications

<b>Accessories</b>	HP LaserJet 550 Sheet Paper Tray F2A72A, HP LaserJet Printer Cabinet F2A73A, HP USB Port 100pc M507/M528 Accessory 1PV95A, HP TAA Version Secure Hard Disk Drive 5EL03A, HP Internal USB Ports B5L28A, HP Secure High Performance Hard Disk Drive B5L29A, HP Jetdirect 2900nw Print Server J8031A, HP 1 GB 90-Pin DDR3 DIMM G6W84A, Accessibility Assistant 2MU47A, HP Jetdirect 3000w NFC/Wireless Accessory J8030A, HP JetDirect 3100w BLE/NFC/Wireless Accessory 3JN69A, HP Removable Hard Drive Enclosure 2NR12A, HP USB Universal Card Reader X3D03A, HP HIP2 Keystroke Reader Y7C05A, HP Logic Card Reader 4QL32A
<b>Acoustic power emissions (active, printing)</b>	6.8 B(A)
<b>Acoustic power emissions (ready)</b>	3.9 B(A)
<b>Acoustic pressure emissions bystander (active, printing)</b>	54 dB(A)
<b>Acoustic pressure emissions bystander (ready)</b>	24 dB(A)
<b>Additional information about HP</b>	<a href="http://www.hp.com">http://www.hp.com</a>
<b>Additional information about HP in the countries</b>	<a href="http://hp.com">hp.com</a>
<b>Automatic paper sensor</b>	No
<b>Best technical electricity consumption (TEC)</b>	1.257 kWh/week <sup>[13]</sup>
<b>Best technical electricity consumption (TEC) footnote</b>	Best TEC is not applicable to the ES 2.0 TEC. This measurement was made with the printer configuration optimized for energy efficiency. Minimum Sleep Delay was used, Wi-Fi Direct was disabled, and Active I/O - Energy Efficient Ethernet was used.
<b>Bottom margin (A4)</b>	4.3 mm
<b>Business filter</b>	cMPS
<b>Cable included</b>	No, please purchase USB cable separately
<b>Capacity</b>	4 GB
<b>Cartons per layer</b>	6
<b>Compatible Network Operating Systems</b>	Windows 11; Windows Server; Linux; Citrix; UNIX
<b>Component type</b>	Printer
<b>Control panel</b>	4.3-in (10.92 cm) Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle) display; Home button
<b>Count of layers in pallet</b>	5
<b>Country of origin</b>	Made in Philippines; Made in Brazil (696, 697, AC8)
<b>Datasheet photo 1</b>	Publication photos/1PU51A.jpg
<b>Datasheet photo 4</b>	Publication photos/E50145_Walkaround.jpg
<b>Datasheet publication number</b>	4AA7-4651

**Downloadable software**

From <http://123.hp.com>, HP Easy Start (Guided Software Install for Windows and Mac), From <http://hp.com> for Windows OS, Full-solution software and drivers, Basic-solution software and drivers, HP PCL6 XPS Discrete Print Driver, Product Documentation and Support, From <http://hp.com> for Mac OS, HP Easy Start (Guided Software Install), HP Mac PS Print Driver, HP Easy Admin, For Mobile OS, iOS For more information see <http://hp.com/go/businessmobileprinting>, Android For more information see <http://hp.com/go/businessmobileprinting>, From <http://hp.com> for printer administrators, Printer Administrator Resource Kit (Driver Configuration Utility - Driver Deployment Utility - Managed Printing Administrator), HP Universal Print Drivers PCL6 GDI & PS GDI for Windows, HP ePrint Software (Mobile Driver for Windows), SAP Print Drivers for more information see <http://support.hp.com/us-en/document/c05051702>, HP Web JetAdmin, HP JetAdvantage Security Manager, HPLIP Linux Printer Driver for more information see <http://hplipopensource.com/hplip-web/index.html>, Unix Model Script Printer Driver for more information see <http://hp.com/go/unixmodelscripts>, ReadIris

**Driver updates**

Current HP printer drivers and software can be obtained from the HP Customer Care Web site: In the US, go to <http://www.hp.com/support/ljE50145>; Outside the US, go to <http://www.hp.com/support> 1 Select the country/region 2 Select Software and Drivers 3 Select Printer 4 Enter a product name/number 5 The operating system is automatically detected 6 Select a driver or other software 7 Then select DOWNLOAD

**Duty cycle note**

Duty cycle is defined as the maximum number of pages per month of imaged output. This value provides a comparison of product robustness in relation to other HP LaserJet or HP Color LaserJet devices, and enables appropriate deployment of printers and MFPs to satisfy the demands of connected individuals or groups.

**Dynamic security**

Dynamic security enabled printer

**Electromagnetic compatibility**

CISPR 22:2008 (International) - Class A, CISPR32:2012 (International) - Class 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, FCC CFR 47 Part 15 Class A/ICES-003, Issue 6 Class A. Other EMC approvals as required by individual countries.

**Engine life**

300000

**Envelope Feeder**

No

**FCC Class A emissions**

FCC Class A emissions - for use in commercial environments, not residential environments

**Finished output handling**

Sheetfeed

**First page out black (A4, ready)**

As fast as 5.9 sec

**First page out black (A4, sleep)**

As fast as 10 sec

**First page out black (letter, ready)**

As fast as 5.9 sec

**First page out black (letter, sleep)**

As fast as 10 sec

**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 cards; HP LaserJet Fonts and IPDS Emulation available at <http://www.hp.com/go/laserjetfonts>

<b>Input capacity</b>	Up to 650 sheets
<b>Internal Storage</b>	Optional, 500 GB minimum encrypted hard disk drive
<b>Left margin (A4)</b>	4.3 mm
<b>Mac compatible</b>	Yes
<b>Maximum Memory</b>	1.5 GB, MAX memory, when 1 GB Accessory DIMM is installed
<b>Maximum dimensions (W x D x H)</b>	418 x 639 x 326 mm
<b>Maximum dimensions (W x D x H)</b>	16.46 x 25.16 x 12.83 in
<b>Maximum input capacity (sheets)</b>	Up to 2300 sheets
<b>Maximum metric depth</b>	639
<b>Maximum metric height</b>	326
<b>Maximum metric width</b>	418
<b>Maximum output capacity (sheets)</b>	Up to 250 sheets
<b>Maximum print area</b>	212 x 352 mm
<b>Media size, tray 1</b>	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); 76.2 x 127 to 215.9 x 355.6 mm
<b>Media size, tray 2</b>	A4; A5; A6; RA4; B5 (JIS); B6 (JIS); Oficio (216 x 340); 16K, postcards (JIS double); 105 x 148 to 215.9 x 355.6 mm
<b>Media size, tray 3</b>	A4; A5; A6; RA4; B5 (JIS); B6 (JIS); Oficio (216 x 340); 16K; postcards (JIS double); 105 x 148 to 215.9 x 355.6 mm
<b>Media sizes supported</b>	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), Oficio (216 x 340), 16K, postcards (JIS double); Optional 550-sheet Tray: A4, A5, A6, RA4, B5 (JIS), B6 (JIS), Oficio (216 x 340), 16K, postcards (JIS double); Optional Automatic Duplexer: A4, RA4, Oficio (216 x 340)
<b>Media sizes supported</b>	Tray 1: letter, legal, executive, statement, 3 x 5 in, 4 x 6 in, 5 x 7 in, 5 x 8 in, 8.5 x 13 in, envelopes (No. 9, No. 10, Monarch); Tray 2: letter, legal, executive, statement, 5 x 7 in, 5 x 8 in, 8.5 x 13 in; Optional 550-sheet tray: letter, legal, executive, statement, 5 x 7 in, 5 x 8 in, 8.5 x 13 in; Optional Automatic Duplexer: letter, legal, 8.5 x 13 in
<b>Media sizes supported, key</b>	4 x 6 in; Letter; Legal; Envelopes
<b>Media sizes supported, key</b>	10 x 15 cm; A4; Envelopes
<b>Media sizes, custom</b>	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
<b>Media sizes, custom</b>	Tray 1: 3 x 5 to 8.5 x 14 in; Tray 2: 4.14 x 5.83 to 8.5 x 14 in; Optional 550-sheet Tray: 4.14 x 5.83 to 8.5 x 14 in
<b>Media type and capacity, tray 1</b>	Sheets: 100; Transparencies: 50; Envelopes: 10
<b>Media type and capacity, tray 2</b>	Sheets: 550
<b>Media type and capacity, tray 3</b>	Sheets: 550
<b>Media types</b>	Paper (bond, color, letterhead, plain, preprinted, prepunched, recycled, rough); envelopes; labels; cardstock; transparencies; user-defined

<b>Media weight (tray 1)</b>	60 to 200 g/m <sup>2</sup>
<b>Media weight (tray 2)</b>	60 to 120 g/m <sup>2</sup>
<b>Media weight (tray 3)</b>	60 to 120 g/m <sup>2</sup>
<b>Media weight, supported</b>	Tray 1: 16 to 53 lb; tray 2+: 16 to 32 lb
<b>Media weight, supported</b>	Tray 1: 60 to 200 g/m <sup>2</sup> ; Tray 2+: 60 to 120 g/m <sup>2</sup>
<b>Memory</b>	512 MB
<b>Memory Slots</b>	1 slot, 90-pin DDR3 Slim DIMM
<b>Memory upgrade</b>	Expandable to 1.5 GB through 1 GB 90-pin DDR3 DIMM
<b>Metric depth</b>	376
<b>Metric height</b>	326
<b>Metric width</b>	418
<b>Minimum System Requirements</b>	2 GB available hard disk space, Internet connection, USB port, Internet browser. (For Additional OS hardware requirements see microsoft.com)
<b>Minimum System Requirements for Macintosh</b>	2 GB Available hard drive Space, Internet connection or USB port, OS hardware requirements see apple.com
<b>Number of print cartridges</b>	1 (black)
<b>Number of users</b>	5-15 Users
<b>Operating humidity range</b>	10 to 80% RH
<b>Operating temperature range</b>	59 to 86°F
<b>Operating temperature range</b>	15 to 30°C
<b>Orderable supplies</b>	W9008MC HP Black Managed LaserJet Toner Cartridge (~23,000 pages)
<b>Output capacity</b>	Up to 250 sheets
<b>Package dimensions (W x D x H)</b>	497 x 398 x 466 mm
<b>Package dimensions (W x D x H)</b>	19.6 x 15.7 x 18.4 in
<b>Package weight</b>	31.7 lb
<b>Package weight</b>	14.3 kg
<b>Pallet dimensions</b>	47.2 x 39.4 x 97.7 in
<b>Pallet dimensions (W x D x H)</b>	1200 x 1000 x 2481 mm
<b>Pallet weight</b>	993.7 lb
<b>Pallet weight</b>	450.7 kg
<b>Paper handling input, optional</b>	Up to 3 optional 550-sheet paper feeders
<b>Paper handling input, standard</b>	100-sheet multipurpose Tray 1, 550-sheet input Tray 2, automatic duplex printing
<b>Paper handling output, standard</b>	250-sheet output bin
<b>Paper trays, maximum</b>	5
<b>Paper trays, standard</b>	2
<b>Plug and play</b>	HP Smart Install



**Power**

Input voltage: 100 V to 127 V nominal (+/-10%), 50 - 60 Hz nominal (+/- 3 Hz), 7.5 A; Input voltage: 220 V to 240 V nominal (+/-10%), 50 - 60 Hz nominal (+/- 3 Hz), 4 A. Not dual voltage, power supply varies by part number with # Option code identifier.

<b>Print Technology</b>	Laser
<b>Print colors</b>	No
<b>Print languages</b>	HP PCL 6, HP postscript level 3 emulation, native PDF printing (v 1.7), Apple AirPrint™
<b>Print quality black (normal)</b>	Up to 600 x 600 dpi
<b>Print resolution black (fine lines)</b>	Up to 1200 x 1200 dpi
<b>Print speed black (Landscape, A5)</b>	Up to 65 ppm
<b>Print speed duplex (A4)</b>	Up to 34 ipm
<b>Print speed duplex (letter)</b>	Up to 36 ipm
<b>Print speed footnote (A5)</b>	[7]
<b>Print technology</b>	Laser
<b>Printer Management</b>	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 Deployment Utility - Managed Printing Administrator)
<b>Printer black pages (MPV black)</b>	1700
<b>Processor speed</b>	1.2 GHz
<b>Product short name specifications</b>	HP LaserJet Managed E50145dn, Print, Front-facing USB printing; Two-sided printing
<b>Quantity per pallet</b>	30
<b>RMN number</b>	BOISB-1807-00
<b>Recommended media weight (duplex)</b>	16 to 32 lb
<b>Recommended media weight (duplex)</b>	60 to 120 g/m <sup>2</sup>
<b>Recommended monthly page volume</b>	2000 to 15,000 <sup>[6]</sup>
<b>Recommended operating humidity range</b>	30 to 70% RH
<b>Recommended operating temperature range</b>	17.5 to 25°C
<b>Recommended operating temperature range</b>	63.5 to 77°F
<b>Right margin (A4)</b>	4.3 mm

**Safety**

EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011; IEC 60950-1:2005 +A1:2009; EN 62479:2010/IEC 62479:2010; CAN/CSA C22.2 No. 60950-1-07 2nd Ed. 2011-12; Compliance of IEC 60950-1 standard considers all country deviations according to the most recent IEC CB Bulletin; UL/cUL Listed and UC CoC (US/Canada); GS Certificate (Germany, Europe); Low Voltage Directive 2006/95/EC with CE Mark (Europe); Compliance with Laser safety standards: EN 60825-1:2007/IEC 60825-1:2007 (Class 1 Laser Product); Compliance with Laser safety standards 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser notice No. 50, Dated June 24, 2007 FDA 21 CFR subchapter J part 1010 and 1040 (FDA Accession Number via test/ reporting to CDRH Factory ID, location and inspections are part of the certification process and record)

**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

**Standard input capacity (envelopes)**

Up to 10

**Standard media sizes (duplex)**

A4; Oficio; RA4

**Standard media sizes (duplex, imperial)**

Letter; Legal; Oficio (8.5 x 13 in)

**Standard output capacity (envelopes)**

Up to 10 envelopes

**Standard output capacity (transparencies)**

Up to 75 sheets

**Storage**

8 GB eMMC

**Storage device and direct print support**

Front-facing USB/Flash drive; USB printing

**Storage temperature range**

-20 to 40°C

**Storage temperature range**

-4 to 104°F

**Target user and print volume**

For teams up to 15 users; Prints up to 15,000 pages/month

**Tariff numbers**

8443321010; 8443321010; 84433231

**Technology logo 1**

Publication logos/AMS\_EnergyStar.jpg

**Technology logo 2**

Publication logos/AMS\_windows\_10.jpg

**Technology logo 3**

Publication logos/AMS\_mac\_hires.jpg

<b>Technology logo 4</b>	Publication logos/AMS_AirPrint.jpg
<b>Technology logo 5</b>	Publication logos/AMS_Epeat silver.jpg
<b>Technology logo 6</b>	Publication logos/AMS_Mopria.jpg
<b>Top key features</b>	Front-facing USB printing; Two-sided printing
<b>Top margin (A4)</b>	4.3 mm
<b>Tray capacity</b>	650
<b>Typical electricity consumption (TEC) footnote</b>	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 115 V device.
<b>Typical electricity consumption (TEC) number</b>	1.257 kWh/Week (Blue Angel); 0.420 kWh/Week (Energy Star 3.0) <sup>[12]</sup>
<b>UNSPSC code</b>	43212105
<b>UPC number</b>	192545079150
<b>Warm-up time</b>	106 sec
<b>Web address for additional information</b>	Solutions: <a href="http://www.hp.com/go/gsc">http://www.hp.com/go/gsc</a> ; Fonts and IPDS Emulation: <a href="http://www.hp.com/go/laserjetfonts">http://www.hp.com/go/laserjetfonts</a> ; HP Web Jetadmin: <a href="http://www.hp.com/go/wja">http://www.hp.com/go/wja</a> ; HP Universal Print Driver: <a href="http://www.hp.com/go/upd">http://www.hp.com/go/upd</a> ; HP Imaging & Printing Security Center: <a href="http://www.hp.com/go/ipsc">http://www.hp.com/go/ipsc</a> ; On Demand Cloud Solutions: <a href="http://www.hpjetadvantage.com/ondemand">http://www.hpjetadvantage.com/ondemand</a>

[1] In box cartridge yields 5,000 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>.

[2] With print cartridges

[5] Duty cycle is defined as the maximum number of pages per month of imaged output. This value provides a comparison of product robustness in relation to other HP LaserJet or HP Color LaserJet devices, and enables appropriate deployment of printers and MFPs to satisfy the demands of connected individuals or groups.

[6] 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.

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

[11] 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. Power consumption values typically based on measurement of 115 V device.

[12] 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 115 V device.

[13] Best TEC is not applicable to the ES 2.0 TEC. This measurement was made with the printer configuration optimized for energy efficiency. Minimum Sleep Delay was used, Wi-Fi Direct was disabled, and Active I/O - Energy Efficient Ethernet was used.

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