



# HP LaserJet Managed E60165dn (3GY10A)



## Overview

**This HP LaserJet with JetIntelligence combines performance, energy efficiency, and security.[1]**

This HP LaserJet Printer with JetIntelligence combines exceptional performance and energy efficiency with professional-quality documents right when you need them—all while protecting your network from attacks with the industry's deepest security.[1]

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

With HP Sure Start, each printer regularly checks its operating code and repairs itself from attempted hacks.

### **High-speed performance meets energy efficiency**

Speed through tasks and save paper. Print two-sided documents nearly as fast as single-sided.

### **Pages, Performance, and Protection.**

Produce sharp text, bold blacks, and crisp graphics with precision black toner.

## Features

Consumable Access Control

Fixed-size Cassette Guides

Data logger & Print Engine Failure Sensor

LLC Life Optimization

HP Sure Start

Run-time Intrusion detection

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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>*

## Specifications

<b>Print Resolution Technologies</b>	FastRes 1200; 1200 x 1200 dpi
<b>Print quality black (best)</b>	Up to 1200 x 1200 dpi
<b>Print speed black (ISO, A4)</b>	Up to 61 ppm
<b>Print speed black (ISO, letter)</b>	Up to 65 ppm
<b>Print speed</b>	Print speed up to 65 ppm (black)
<b>Functions</b>	Print
<b>Duplex printing</b>	Automatic (standard)
<b>Duty cycle (monthly, A4)</b>	Up to 420,000 pages
<b>Duty cycle (monthly, letter)</b>	Up to 420,000 pages <sup>[9]</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 (50,000 yield) W9004MC. This printer uses newer generation HP cartridges identifiable by a "P" at the end of the cartridge lot number. More at <a href="http://www.hp.com/go/learnaboutsupplies">www.hp.com/go/learnaboutsupplies</a> <sup>[7]</sup>
<b>Supplies feature</b>	HP JetIntelligence Cartridge
<b>Connectivity, standard</b>	1 Hi-Speed Device USB 2.0; 2 Hi-Speed USB 2.0 Host; 1 Gigabit Ethernet; 1 Hardware Integration Pocket
<b>Connectivity, optional</b>	HP Jetdirect 2900nw Print Server J8031A, HP Jetdirect 3000w NFC/Wireless Accessory J8030A, HP Jetdirect 3100w BLE/NFC/Wireless Accessory 3JN69A
<b>Network capabilities</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).
<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, Stateful via DHCPv6); Management: SNMPv2/v3, HTTP/HTTPs, Telnet, TFTP Config, FTP FW Download, Syslog; Security: SNMPv3, SSL Cert Management, 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 Client OS (32/64 bit), Win10, Win8.1, Win 8 Basic, Win8 Pro, Win8 Enterprise, Win8 Enterprise N, Win7 Starter Edition SP1, UPD Win7 Ultimate, Mobile OS, 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 <a href="http://support.hp.com">http://support.hp.com</a> , 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 <a href="http://www.hp.com/go/upd">www.hp.com/go/upd</a>
<b>Sustainable impact specifications</b>	Mercury-free
<b>Energy star certified</b>	Yes
<b>Ecolabels</b>	EPEAT® Silver; CECP; ENERGY STAR® qualified
<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 2.31 in
<b>Display area (metric)</b>	95.04 x 53.85 mm
<b>Display</b>	4.3-in (10.92 cm) Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle) display; Home button
<b>Minimum dimensions (W x D x H)</b>	431 x 466 x 380 mm
<b>Minimum dimensions (W x D x H)</b>	17 x 18.3 x 15 in
<b>Weight</b>	21.55 kg <sup>[3]</sup> (With print cartridges)
<b>Weight</b>	47.51 lb (With print cartridges)
<b>Power consumption</b>	720 watts (printing), 15.4 watts (ready), 0.6 watts (sleep), < 0.1 watts (Auto Off/Manual On), < 0.1 watts (Manual Off) <sup>[4]</sup>
<b>Power supply type</b>	Built-in 115V or 220V Power Supply
<b>What's in the box</b>	HP LaserJet Managed E60165dn Printer; HP Original LaserJet Toner Cartridge (~11,000 pages); Documentation (Hardware Install Guide); Power cord; Fixed-Size Cassette Guides <sup>[2]</sup>
<b>Manufacturer Warranty</b>	One-year, next-business day, onsite warranty. Warranty and support options vary by product, country and local legal requirements. 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)

## Additional specifications

<b>Accessories</b>	LOH17A HP LaserJet 550-Sheet Paper feeder; LOH18A HP LaserJet 2100-Sheet Paper feeder; LOH19A HP LaserJet Printer Stand; LOH20A HP LaserJet Stapler/Stacker/ Mailbox; LOH21A HP Envelope Feeder; LOH22A HP Extension Tray Cover; B5L28A HP Internal USB Ports; B5L29A HP Secure High Performance Hard Disk Drive; J8031A HP Jetdirect 2900nw Print Server; G6W84A HP 1 GB 90-Pin DDR3 DIMM; 2MU47A Accessibility Assistant; J8030A HP Jetdirect 3000w NFC/Wireless Accessory; 3JN69A HP JetDirect 3100w BLE/NFC/Wireless Accessory; 2NR12A HP Removable Hard Drive Enclosure; X3D03A HP USB Universal Card Reader; Y7C05A HP HIP2 Keystroke Reader; 4QL32A HP Legic Reader
<b>Acoustic power emissions (active, printing)</b>	7.2 B(A)
<b>Acoustic power emissions (ready)</b>	3.5 B(A)
<b>Acoustic pressure emissions bystander (active, printing)</b>	57 dB(A)
<b>Acoustic pressure emissions bystander (ready)</b>	Inaudible
<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>	2.425 kWh/week <sup>[6]</sup>
<b>Best technical electricity consumption (TEC) footnote</b>	[6] Based on the BA TEC method with the following possible exceptions: 1 minute or less sleep delay setting, Wi-Fi disabled.
<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>	Optional 500 GB Hard Disk
<b>Cartons per layer</b>	4
<b>Compatible Network Operating Systems</b>	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 <a href="http://citrixready.citrix.com">http://citrixready.citrix.com</a> , Linux- For more information see <a href="http://developers.hp.com/hp-linux-imaging-and-printing">http://developers.hp.com/hp-linux-imaging-and-printing</a> , Unix- For more information see <a href="http://hp.com/go/unixmodelscripts">http://hp.com/go/unixmodelscripts</a> , UPD PCL6 / PS Printer Drivers, Supported for Compatible Network Operating systems please see <a href="http://hp.com/go/upd">http://hp.com/go/upd</a>
<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>	4 (AMS/EMEA); 3 (APJ)
<b>Country of origin</b>	Product of China, Assembled in Mexico (#AKV); Made in Brazil (#696); Made in China (other options)
<b>Datasheet photo 1</b>	Publication photos/3GY10A.jpg
<b>Datasheet photo 4</b>	Publication photos/E60165 workaround.jpg
<b>Datasheet publication number</b>	4AA7-4683
<b>Downloadable software</b>	From <a href="http://123.hp.com">http://123.hp.com</a> , HP Easy Start (Guided Software Install for Windows and Mac), From <a href="http://hp.com">http://hp.com</a> for Windows OS, Full-solution software and drivers, Basic-solution software and drivers, HP PCL6 XPS Discrete Print Driver, Product Documentation and Support, From <a href="http://hp.com">http://hp.com</a> 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 <a href="http://hp.com/go/businessmobileprinting">http://hp.com/go/businessmobileprinting</a> , Android For more information see <a href="http://hp.com/go/businessmobileprinting">http://hp.com/go/businessmobileprinting</a> , From <a href="http://hp.com">http://hp.com</a> 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 <a href="http://support.hp.com/us-en/document/c05051702">http://support.hp.com/us-en/document/c05051702</a> , HP Web JetAdmin, HP JetAdvantage Security Manager, HPLIP Linux Printer Driver for more information see <a href="http://hplipopensource.com/hplip-web/index.html">http://hplipopensource.com/hplip-web/index.html</a> , Unix Model Script Printer Driver for more information see <a href="http://hp.com/go/unixmodelscripts">http://hp.com/go/unixmodelscripts</a> , ReadIris
<b>Driver updates</b>	Current HP printer drivers and software can be obtained from the HP Customer Care Web site: In the US, go to <a href="http://www.hp.com/support/ljE60165">http://www.hp.com/support/ljE60165</a> ; Outside the US, go to <a href="http://www.hp.com/support">http://www.hp.com/support</a> 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
<b>Duty cycle note</b>	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.
<b>Dynamic security</b>	Dynamic security enabled printer
<b>Electromagnetic compatibility</b>	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.
<b>Engine life</b>	1350000
<b>Envelope Feeder</b>	Yes, 75
<b>FCC Class A emissions</b>	FCC Class A emissions - for use in commercial environments, not residential environments
<b>Finished output handling</b>	Sheetfed
<b>First page out black (A4, ready)</b>	As fast as 5.1 sec
<b>First page out black (A4, sleep)</b>	As fast as 8.3 sec

<b>First page out black (letter, ready)</b>	As fast as 5.0 sec
<b>First page out black (letter, sleep)</b>	As fast as 8.2 sec
<b>Fonts and typefaces</b>	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 WorldType); 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 <a href="http://www.hp.com/go/laserjetfonts">http://www.hp.com/go/laserjetfonts</a>
<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 Accessory DIMM is installed
<b>Maximum dimensions (W x D x H)</b>	17 x 40.9 x 17.8 in
<b>Maximum dimensions (W x D x H)</b>	431 x 1040 x 453 mm
<b>Maximum input capacity (sheets)</b>	Up to 4400 sheets
<b>Maximum metric depth</b>	1040
<b>Maximum metric height</b>	453
<b>Maximum metric width</b>	431
<b>Maximum output capacity (sheets)</b>	Up to 1300 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 mm); 16K; envelopes (B5, C5, C6, DL); Postcard (JIS single and double); 76 x 127 to 216 x 356 mm
<b>Media size, tray 2</b>	A4; A5; A6; RA4; B5 (JIS); B6 (JIS); 10 x 15 cm; Oficio (216 x 340 mm); 16K; Postcard (JIS single and double); 99 x 148 to 216 x 356 mm
<b>Media size, tray 3</b>	Optional 550-sheet tray: A4, A5, A6, RA4, B5 (JIS), B6 (JIS), 10 x 15 cm, Oficio (216 x 340 mm), 16K, Postcard (JIS single and double), 99 x 148 to 216 x 356 mm; Optional 2100-sheet tray: A4; Optional 75-envelope feeder: B5, C5, C6, DL, 90 x 148 to 178 x 254 mm
<b>Media sizes supported</b>	Tray 1: A4, A5, A6, RA4, B5 (JIS), B6 (JIS), 10 x 15 cm, Oficio (216 x 340 mm), 16K, envelopes (B5, C5, C6, DL), Postcard (JIS single and double); Tray 2: A4, A5, A6, RA4, B5 (JIS), B6 (JIS), 10 x 15 cm, Oficio (216 x 340 mm), 16K, Postcard (JIS single and double); Optional 550-sheet tray: A4, A5, A6, RA4, B5 (JIS), B6 (JIS), 10 x 15 cm, Oficio (216 x 340 mm), 16K, Postcard (JIS single and double); Optional 2100-sheet tray: A4; Optional 75-envelope feeder: B5, C5, C6, DL; Automatic Duplexer: A4, A5, RA4, B5 (JIS), Oficio (216 x 340 mm), 16K
<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, 4 x 6 in, 5 x 7 in, 5 x 8 in, 8.5 x 13 in; Optional 550-sheet tray: letter, legal, executive, statement, 4 x 6 in, 5 x 7 in, 5 x 8 in, 8.5 x 13 in; Optional 2100-sheet tray: letter, legal; Optional 75-envelope feeder: No. 9, No. 10, Monarch; Automatic Duplexer: letter, legal, executive, 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 x 127 to 216 x 356 mm; Tray 2: 99 x 148 to 216 x 356 mm; Optional 550-sheet tray: 99 x 148 to 216 x 356 mm; Optional 2100-sheet tray: custom sizes not supported; Optional 75-envelope feeder: 90 x 148 to 178 x 254 mm
<b>Media sizes, custom</b>	Tray 1: 3 x 5 to 8.5 x 14 in; Tray 2 3.9 x 5.8 to 8.5 x 14 in; Optional 550-sheet tray: 3.9 x 5.83 to 8.5 x 14 in; Optional 2100-sheet tray: custom sizes not supported; Optional 75-envelope feeder: 3.55 x 5.83 to 7 x 10 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; labels: 50
<b>Media type and capacity, tray 3</b>	Sheets: 550; labels: 50
<b>Media types</b>	Paper (plain, light, bond, recycled, heavy, extra heavy, cardstock, pre-printed, pre-punched, colored, rough, heavy rough), mono transparency, labels, letterhead, envelope, heavy envelope
<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; Automatic Duplexer: 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> ; Automatic Duplexer: 60 to 120 g/m <sup>2</sup>
<b>Memory</b>	512 MB
<b>Memory Slots</b>	1 slot, 90-pin
<b>Memory upgrade</b>	Expandable to 1.5 GB through one 90-pin DDR3 DIMM
<b>Metric depth</b>	466
<b>Metric height</b>	380
<b>Metric width</b>	431
<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>	10-30 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>	HP Staple Cartridge Refill J8J96A, HP LaserJet 110 v Maintenance Kit LOH24A, HP LaserJet 220 v Maintenance Kit LOH25A
<b>Output capacity</b>	Up to 500 sheets
<b>Package dimensions (W x D x H)</b>	23.5 x 19.6 x 21.2 in



<b>Package dimensions (W x D x H)</b>	597 x 497 x 539 mm
<b>Package weight</b>	54.9 lb
<b>Package weight</b>	24.9 kg
<b>Pallet dimensions</b>	47.2 x 39.4 x 90.1 in (AMS/EMEA); 47.2 x 39.4 x 68.9 in (APJ)
<b>Pallet dimensions (W x D x H)</b>	1200 x 1000 x 2288 mm (AMS/EMEA); 1200 x 1000 x 1749 mm APJ
<b>Pallet weight</b>	911.4 lb (AMS/EMEA); 691.8 lb (APJ)
<b>Pallet weight</b>	413.4 kg (AMS/EMEA); 313.8 kg (APJ)
<b>Paper handling input, optional</b>	Optional 550-sheet paper feeder, optional 75 sheet envelope feeder, optional high-capacity 2100 sheet paper feeder and stand, Optional pedestal
<b>Paper handling input, standard</b>	100-sheet multipurpose feeder, 550-sheet input feeder
<b>Paper handling output, optional</b>	Optional 5 bin stapler stacker
<b>Paper handling output, standard</b>	500 sheet output bin
<b>Paper trays, maximum</b>	Up to 6
<b>Paper trays, standard</b>	2
<b>Plug and play</b>	HP Smart Install
<b>Power</b>	Input voltage: 100 V to 127 V nominal (+/-10%), 50 - 60 Hz nominal (+/- 3 Hz), 12 A; Input voltage: 220 V to 240 V nominal (+/-10%), 50 - 60 Hz nominal (+/- 3 Hz), 6 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>	FastRes 1200
<b>Print resolution black (fine lines)</b>	Up to 1200 x 1200 dpi
<b>Print speed black (Landscape, A5)</b>	Up to 100 ppm
<b>Print speed black (Portrait, A5)</b>	Up to 6 ppm
<b>Print speed duplex (A4)</b>	Up to 50 ipm
<b>Print speed duplex (letter)</b>	Up to 53 ipm
<b>Print speed footnote (A5)</b>	Measured using ISO 24734 Feature Test, A5 Landscape Feed. Speed may vary based on content, PC, media orientation, and media type.
<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>	5000
<b>Processor speed</b>	1.2 GHz

<b>Product short name specifications</b>	HP LaserJet Managed E60165dn, Print, Front-facing USB printing; Two-sided printing
<b>Quantity per pallet</b>	16 (AMS/EMEA); 12 (APJ)
<b>RMN number</b>	BOISB-1502-00
<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>	5000 to 40,000 <sup>[10]</sup>
<b>Recommended operating humidity range</b>	30 to 70% RH
<b>Recommended operating temperature range</b>	63.5 to 77°F
<b>Recommended operating temperature range</b>	17.5 to 25°C
<b>Right margin (A4)</b>	4.3 mm
<b>Safety</b>	IEC 60950-1:2005 +A1:2009 +A2:2013 (International); EN60950-1:2006 +A11:2009 +A1:2010 +A12:2011 +A2:2013 (EU); EN 60825-1:2014/IEC 60825-1:2014 (Class 1 Laser Product); EN 62479:2010/IEC 62479:2010; Low Voltage Directive 2014/35/EU with CE Mark (Europe); GS Certificate (Germany, Europe); UL/cUL Listed and UC CoC (US/Canada); CAN/CSA C22.2 No. 60950-1-07 2nd Ed. 2011-12; 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; Other safety approvals as required by individual countries.
<b>Security management</b>	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, ...); Security management: Compatible with HP JetAdvantage Security Manager, Device Security Syslog Messages processed and accessible in ArcSight and Splunk SIEMs
<b>Service level options</b>	Assembly, network configuration, and basic administrator familiarization
<b>Service level options</b>	Onsite support within four hours after the service call is received within the coverage window
<b>Service level options</b>	Onsite service the next business day after the service call is received
<b>Service level options</b>	Onsite replacement of your printer's maintenance kit including parts, materials, and labor
<b>Service level options, header</b>	Installation with Network Configuration Service

<b>Service level options, header</b>	Maintenance Kit Replacement Service
<b>Service level options, header</b>	Next Business Day Onsite Support
<b>Service level options, header</b>	4 hour Onsite Support
<b>Standard input capacity (envelopes)</b>	Up to 10
<b>Standard media sizes (duplex)</b>	A4; A4-R; 16K; B5 (JIS); Oficio; RA4
<b>Standard media sizes (duplex, imperial)</b>	Letter; Legal; Executive; Oficio (8.5 x 13 in)
<b>Standard output capacity (envelopes)</b>	Up to 75 envelopes
<b>Standard output capacity (transparencies)</b>	200
<b>Storage</b>	4 GB non-volatile storage; Firmware encryption (AES 128 or AES 256) of customer/job data; Secure Cryptographic Erase – Job Data; Secure Erase – Disk
<b>Storage device and direct print support</b>	Front-facing USB/Flash drive; USB printing
<b>Storage temperature range</b>	-4 to 104°F
<b>Storage temperature range</b>	-20 to 40°C
<b>SureSupply supported</b>	No
<b>Target user and print volume</b>	For teams over 25 users; Prints up to 40,000 pages/month
<b>Tariff numbers</b>	8443321010 (AM-Base-HTS); 8443321000 (EU-Base-HTS); 84433231 (AP-Base-HTS)
<b>Technology logo, print 1</b>	Publication logos/AMS_EnergyStar.jpg
<b>Technology logo, print 2</b>	Publication logos/AMS_windows_10.jpg
<b>Technology logo, print 3</b>	Publication logos/AMS_mac_hires.jpg
<b>Technology logo, print 4</b>	Publication logos/AMS_AirPrint.jpg
<b>Technology logo, print 5</b>	Publication logos/AMS_Mopria.jpg
<b>Technology logo, print 6</b>	Publication logos/AMS_Epeat silver.jpg
<b>Top key features</b>	Front-facing USB printing; Two-sided printing
<b>Top margin (A4)</b>	4.3 mm
<b>Total package service recommended services description</b>	Next Business Day Onsite Support
<b>Total package service recommended services description</b>	4 hour Onsite Support, Maintenance Kit Replacement Service or Preventive Maintenance, Installation with Network Configuration Service
<b>Total package service recommended services description</b>	Next Business Day Onsite Support, Maintenance Kit Replacement Service or Preventive Maintenance Service, Installation with Network Configuration Service

<b>Total package service recommended services description headline</b>	Optimized Care (optimum performance and stability)
<b>Total package service recommended services description headline</b>	Standard Care (high level of uptime)
<b>Total package service recommended services description headline</b>	Basic Care (minimum recommended support)
<b>Total package service recommended services preface</b>	Downtime can have serious consequences, so HP provides support recommendations beyond the standard warranty. You benefit from reduced risk, maximized uptime, and predictable service delivery while avoiding unbudgeted repair costs. Choose from:
<b>Tray capacity</b>	650
<b>Typical electricity consumption (TEC) footnote</b>	[5] 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>	2.425 kWh/Week (Blue Angel); 0.877 kWh/Week (Energy Star 3.0) <sup>[5]</sup>
<b>UNSPSC code</b>	43212105
<b>UPC number</b>	193015270336
<b>Warm-up time</b>	130 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 JetAdvantage Security Manager: <a href="http://www.hp.com/go/securitymanager">http://www.hp.com/go/securitymanager</a> ; HP JetAdvantage On Demand Cloud Solutions: <a href="http://www.hp.com/go/JetAdvantageondemand">http://www.hp.com/go/JetAdvantageondemand</a>

[2] Standard cartridges included; yields 11,000 black pages. Average black declared yields based on ISO/IEC 19752 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see <http://www.hp.com/go/learnaboutsupplies>.

[3] With print cartridges

[4] 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.

[5] 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.

[6] Based on the BA TEC method with the following possible exceptions: 1 minute or less sleep delay setting, Wi-Fi disabled.

[7] Average black declared yields based on ISO/IEC 19752 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see <http://www.hp.com/go/learnaboutsupplies>.

[9] 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.

*[10] 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.*

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## Services

### HP Care Pack Services

★ : Recommended

#### Imaging and Printing Hardware Support Onsite Svc

HP 3 year Next Business Day w/DMR Service for Color LaserJet E60065 E60165 Managed	U9NH5E ★
HP 1 year Post Warranty 4 hour 9x5 w/DMR Service for Color LaserJet E60065 E60165 Managed	U9NJ6PE ★
HP 1 year Post Warranty Next Business Day w/DMR Service for Color LaserJet E60065 E60165 Managed	U9NJ4PE ★
HP 2 year Post Warranty 4 hour 9x5 w/DMR Service for Color LaserJet E60065 E60165 Managed	U9NJ7PE ★
HP 2 year Post Warranty Next Business Day w/DMR Service for Color LaserJet E60065 E60165 Managed	U9NJ5PE ★
HP 3 year 4 hour 9x5 w/DMR Service for Color LaserJet E60065 E60165 Managed	U9NH8E ★
HP 4 year 4 hour 9x5 w/DMR Service for Color LaserJet E60065 E60165 Managed	U9NH9E ★
HP 5 year 4 hour 9x5 w/DMR Service for Color LaserJet E60065 E60165 Managed	U9NJ0E ★
HP 5 year Next Business Day w/DMR Service for Color LaserJet E60065 E60165 Managed	U9NH7E ★
HP 3 year 4 hour 9x5 w/DMR Service for Color LaserJet E60065 E60165 Managed	U9NH8E ★
HP 1 year Post Warranty 4 hour 9x5 w/DMR Service for Color LaserJet E60065 E60165 Managed	U9NJ6PE
HP 1 year Post Warranty Next Business Day w/DMR Service for Color LaserJet E60065 E60165 Managed	U9NJ4PE
HP 2 year Post Warranty 4 hour 9x5 w/DMR Service for Color LaserJet E60065 E60165 Managed	U9NJ7PE
HP 2 year Post Warranty Next Business Day w/DMR Service for Color LaserJet E60065 E60165 Managed	U9NJ5PE
HP 4 year 4 hour 9x5 w/DMR Service for Color LaserJet E60065 E60165 Managed	U9NH9E
HP 4 year Next Business Day w/DMR Service for Color LaserJet E60065 E60165 Managed	U9NH6E
HP 5 year 4 hour 9x5 w/DMR Service for Color LaserJet E60065 E60165 Managed	U9NJ0E
HP 5 year Next Business Day w/DMR Service for Color LaserJet E60065 E60165 Managed	U9NH7E

#### Imaging and Printing Commercial Care Pack Services

HP 1 yr Post Wty Parts Exchange SVC for Color LaserJet E60065 E60165 Managed	U9NJ8PE ★
HP 2 yr Post Wty Parts Exchange SVC for Color LaserJet E60065 E60165 Managed	U9NJ9PE ★
HP 3 year Parts Exchange Service for Color LaserJet E60065 E60165 Managed	U9NJ1E ★
HP 4 year Parts Exchange Service for Color LaserJet E60065 E60165 Managed	U9NJ2E ★
HP 5 year Parts Exchange Service for Color LaserJet E60065 E60165 Managed	U9NJ3E ★
HP Installation Service with network configuration for Workgroup Printer(1 unit)	U9JT2E ★
HP 1 yr Post Wty Parts Exchange SVC for Color LaserJet E60065 E60165 Managed	U9NJ8PE
HP 2 yr Post Wty Parts Exchange SVC for Color LaserJet E60065 E60165 Managed	U9NJ9PE
HP 3 year Parts Exchange Service for Color LaserJet E60065 E60165 Managed	U9NJ1E
HP 4 year Parts Exchange Service for Color LaserJet E60065 E60165 Managed	U9NJ2E
HP 5 year Parts Exchange Service for Color LaserJet E60065 E60165 Managed	U9NJ3E
HP MKRS LJ M60x M61x Fuser 110 SVC	U9PS8E
HP MKRS LJ M60x M61x Fuser 220 SVC	U9PS9E
HP Print Carbon Neutral Certification Service	U34Y1E

## Ink/Toner/Paper/Printer Supplies

### HP Laser Toner Cartridges and Kits

★ : Recommended

#### HP Laser Printer Supply Kits

HP LaserJet 110V Maintenance Kit	LOH24A ★
HP LaserJet 220V Fuser Kit	P1B92A
HP LaserJet 220V Maintenance Kit	LOH25A
HP LaserJet Image Transfer Belt Kit	P1B93A
HP LaserJet Toner Collection Unit	P1B94A

### HP Business Papers

#### HP Business Papers for laser

HP Enhanced Business Paper, Glossy, 150 g/m2, A4 (210 x 297 mm), 150 sheets	CG965A
HP Everyday Business Paper, Glossy, 32 lb, 11 x 17 in. (279 x 432 mm), 150 sheets	4WN07A
HP Everyday Business Paper, Glossy, 32 lb, 8.5 x 11 in. (216 x 279 mm), 150 sheets	4WN08A
HP Professional Business Paper, Glossy, 52 lb, 8.5 x 11 in. (216 x 279 mm), 150 sheets	4WN10A
HP Professional Business Paper, Matte, 52 lb, 8.5 x 11 in. (216 x 279 mm), 150 sheets	4WN05A



## Accessories

### Memory

★ : Recommended

#### DDR Memory

HP 1 GB 90-pin DDR3 DIMM	<b>G6W84A ★</b>
HP 1 GB 90-pin DDR3 DIMM	2NR03A

### Security and Protection

#### Smart Cards and SmartCard Readers

HP HIP2 Keystroke Reader	<b>Y7C05A ★</b>
HP USB Universal Card Reader	<b>X3D03A ★</b>
HP Legic Secure USB Reader	4QL32A
HP SmartCard NIPRNet Solution for US Government	CC543B

### PC Drives and Storage

#### EIO Hard Drives

HP High-Performance Secure Hard Disk	<b>B5L29A ★</b>
HP TAA Version Secure Hard Disk Drive	5EL03A

### Cables/Cable Kits/Cable Adapters

#### Port Cables and Cable Adapters

HP Internal USB Ports	<b>B5L28A ★</b>
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### Network Print Servers

#### External Print Servers

HP Jetdirect 3100w BLE/NFC/Wireless Accessory	<b>3JN69A ★</b>
HP Jetdirect 3000w NFC/Wireless Accessory	J8030A

#### Internal Print Servers

HP Jetdirect LAN Accessory	<b>8FP31A ★</b>
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### Paper Handling

#### Input Trays

HP LaserJet 2100 Sheet Paper Tray

LOH18A ★

HP LaserJet 550-sheet Paper Tray

LOH17A ★

HP LaserJet Extension Tray Cover

LOH22A ★

## Envelope Feeders

HP LaserJet Envelope Feeder

LOH21A ★

## Output Trays and Stackers

HP LaserJet Stapler/Stacker/Mailbox

LOH20A ★

## Staple Cartridges

HP Staple Cartridge Refill

J8J96A ★

## Cabinets and Stands

### Printer Cabinets and Stands

HP LaserJet Printer Stand

LOH19A ★

## Accessory Bundles

### Data Security Accessories

HP Removable Hard Drive Enclosure

2NR12A ★

### Printer Accessibility Accessories

HP Printing Voice Assistant

478C2A

## Solutions

### Imaging and Printing Solutions

★ : Recommended

#### Printing SW Solution Licenses

HP HID Mobile Access Mifare DES Fire Keystroking Reader	35H11A ★
HP SIM for HID iClass for HIP2 Reader	Y7C07A ★

### HP Document and Workflow Solutions

#### JetAdvantage Printing Security

Celiveo Enterprise	HP3PCELIVEO
HP Access Control Secure Printing and Job Accounting Solution	HPACSOLUTION
HP Proximity Card Reader	HPPROXIMTYRDR
HP Secure Print and Insights	HPJETADSECUREPRINT
HP Security Manager	HPJETADSECMGR
Kofax SafeCom Security and Job Accounting Solution	HPNSAFECOMSOL
Pharos Blueprint	HP3PHAROSBPRNT

#### JetAdvantage Print Management

HP Universal Print Driver	HPUNIVPRNTDRV
HP Web Jetadmin	HPWEBJETADMIN
LRS VPSX for Output Management	HP3PLRS

#### JetAdvantage Mobile Printing

ePRINTit	HP3PEPRINTIT
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