# Specifications

## SKU

| | |
|---|---|
| **Sku** | **4RY23A** |

## PRINT

| | |
|---|---|
| **Print speed, black** | **21 - 30** |
| **Color or black** | **Black and white** |

## CATEGORY

| | |
|---|---|
| **Product types** | **Laser printers** |
| **Family brand** | **Neverstop Laser** |

## USAGE

| | |
|---|---|
| **Perfect for** | **Business** |
| **Usage** | **Small work team** |

## FEATURES

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|---|---|
| **Functions** | **Print only** |

## DISPLAY SPECIFICATIONS

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|---|---|
| **Display** | **LED** |

## ENVIRONMENTAL

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|---|---|
| **Acoustic pressure emissions bystander (active, printing)** | **51 dB(A)** |
| **Operating humidity range** | **10 to 80% RH** |
| **Storage temperature range** | **-20 to 40°C** |

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|---|---|
| Operating temperature range | 15 to 32.5°C |
| Acoustic power emissions | 6.5 B(A) |
| Recommended operating temperature range | 17.5 to 25°C |
| Acoustic power emissions (ready) | 2.6 B(A) |
| Acoustic pressure emissions bystander (ready) | 26 dB(A) |

## CARTRIDGES AND PRINTHEADS

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|---|---|
| Technology | Laser |
| Number of print cartridges | 1 Imaging Drum |
| Replacement cartridges | HP 103A Black Original Neverstop Laser Toner Reload Kit (Yield ~2500 pages); HP 103AD Dual pack Black Original Neverstop Laser Toner Reload Kit( Yield ~2x2500 pages) ;HP 104A Black Original Laser Imaging Drum(includes ~5000 pages of inbox toner, useful life of ~20000 pages) |
| Supplies feature | HP Neverstop Laser Technology |

## PRINT SPEED

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|---|---|
| Print speed black (normal, letter) | Up to 21 ppm |
| Print speed black (normal, A4) | Up to 20 ppm |
| Print speed | Print speed up to 21 ppm (black) |

## BATTERY AND POWER

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|---|---|
| **Power** | **110V - 127V nominal @ +/-10% (min 99V, max 140V), 50 - 60Hz nominal +/- 3Hz (min 47Hz, max 63Hz), 220V - 240V nominal @ +/-10% (min 198V, Max 264V), 50 - 60Hz nominal +/- 3Hz (min 47Hz, max 63Hz)** |
| **Power Consumption Description** | **365 watts (active printing), 2.8 watts (ready), 0.6 watts (sleep), 0.1 watts (manual off)** |
| **Power supply type** | **Internal (built-in) Power Supply** |

## PRINT TIME

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|---|---|
| **First page out black (letter, ready)** | **As fast as 7.6 sec** |
| **First page out black (A4, ready)** | **As fast as 7.6 sec** |
| **First page out black (letter, sleep)** | **As fast as 14 sec (15 min)** |

## PRINTER SPECIFICATIONS

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|---|---|
| **Duty cycle (monthly, letter)** | **Up to 20,000 pages** |
| **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.** |
| **Recommended monthly page volume note** | **HP recommends that the number of printed pages per month be within the stated range for optimum device performance, based on factors including supplies replacement intervals and device life over an extended warranty period.** |
| **Functions** | **Print** |

| | |
|---|---|
| **Print languages** | **PCLmS; URF; PWG** |
| **Paper trays, maximum** | **1 input tray** |
| **Duty cycle (monthly, A4)** | **Up to 20,000 pages** |
| **Paper trays, standard** | **1 input tray** |
| **Recommended monthly page volume** | **250-2500** |
| **Print technology** | **Laser** |
| **Duplex printing** | **Manual (driver support provided)** |
| **Automatic paper sensor** | **Yes** |
| **Printer management** | **HP Printer Assistant (UDC); HP Device Toolbox; HP Utility (Mac)** |
| **Print colours** | **No** |
| **Target user and print volume** | **For teams up to 5 users; Prints up to 2,500 pages/month** |

## GEOGRAPHIC

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|---|---|
| **Country of origin** | **Made in China (WW except for option code #696, #697,#AC8); Made in Brazil (Option code #696, #697, #AC8)** |

## WARRANTY

| | |
|---|---|
| **Warranty** | **3 Years Extended Support. For full terms and conditions, visit: www.hp.com/go/orderdocuments.** |

## DIMENSIONS

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|---|---|
| **Dimensions without stand (W x D x H)** | **380.5 x 293.4 x 211 mm** |
| **Package dimensions (W x D x H)** | **475 x 290 x 420 mm** |
| **Maximum dimensions (W x D x H)** | **380.5 x 465 x 445 mm** |
| **Dimension note (metric)** | **Dimensions vary as per configuration** |
| **Dimension footnote number** | **[2] Dimensions vary as per configuration** |

## WEIGHTS

| | |
|---|---|
| **Weight** | **6.95 kg** |
| **Package weight** | **8.7 kg** |
| **Weight note (metric)** | **Weight varies as per configuration** |

## CONNECTIVITY AND COMMUNICATIONS

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|---|---|
| **Connectivity, standard** | **Hi-Speed USB 2.0 port; built-in Wifi 802.11b/g/n** |
| **Wireless capability** | **Yes** |
| **Mobile printing capability** | **Apple AirPrint™; Google Cloud Print™; HP Smart App; Mopria™ Certified; Wi-Fi® Direct printing** |

## PRINTING MEDIA HANDLING

| | |
|---|---|
| **Output capacity** | **Up to 100 sheets** |
| **Maximum output capacity (sheets)** | **Up to 100 sheets** |

| | |
|---|---|
| **Media type and capacity, tray 1** | **Sheets: 150; Envelopes: 1** |
| **Paper handling input, standard** | **150-sheet input tray** |
| **Input capacity** | **Up to 150 sheets** |
| **Paper handling output, standard** | **100-sheet output bin** |
| **Maximum input capacity (sheets)** | **Up to 150 sheets** |
| **Standard input capacity (envelopes)** | **Up to 1 envelope** |

## SYSTEM COMPONENTS

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|---|---|
| **Control panel** | **LED** |

## PROCESSOR

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|---|---|
| **Processor speed** | **500 MHZ** |

## MEMORY

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|---|---|
| **Memory** | **32 MB** |
| **Memory, maximum** | **32 MB** |

## BOX CONTENTS

| | |
|---|---|
| **Cable included** | **Yes. 1 USB Cable** |
| **What is in the box footnote number** | **[1] HP Black Original Laser Imaging Drum (introductory ~5,000 page black toner yield provided, with ~20,000 page Imaging Drum useful life). Actual yields vary considerably based on images printed and other factors. For details see http://www.hp.com/go/learnaboutsupplies** |

## SUPPORTED PRINTING MEDIA

| Media sizes supported | A6; A5; A4; Letter; No.10 Env; C5 Env; DL Env; B5(JIS), Oficio 216x340; Legal; 105 x 148.5 to 216 x 356 mm |
|---|---|
| Media size, tray 1 | A6; A5; A4; Letter; Legal; Oficio; No.10 Env; C5 Env; DL Env; B5(JIS); 105 x 148.5 mm to 215.9 x 356 mm |
| Media weight, supported | 60 to 120 g/m² |
| Media types | Plain paper, Heavy paper, Bond paper, Label, Light paper, Envelope |
| Media weight (tray 1) | 60 to 120 g/m² |
| Media sizes, custom | 105 x 148.5 to 215.9 x 356 mm |
| Media sizes supported, key | A4; Envelopes |

## SYSTEM REQUIREMENTS

| Minimum System Requirements for Macintosh | Apple®OS X EI Capitan (v10.11) macOS Sierra (v10.12) macOS High Sierra, (v10.13); 1.5 GB HD; Internet required; USB |
|---|---|
| Minimum System Requirements | Windows® 10, 8.1, 8, 7: 32-bit or 64-bit, 2 GB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer. |

## CERTIFICATION AND COMPLIANCE

| Electromagnetic Emission Standard | EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN55024: 2010, EN 55032: 2012/AC: 2013, 47 CFR Part 15, Subpart B I ANSI C63.4-2009, ICES-003 Issue 5, KN32, KN35, GB/T 9254-2008, GB17625.1-2012, CISPR22: 2008, CISPR32: 2012, CNS 13438 (Other EMC approvals as required by individual countries.) |
|---|---|

| | |
|---|---|
| Safety Approvals and Requirements | IEC 60950-1: 2005 +A1: 2009 +A2 2013 (International); EN 60950-1: 2006 +A11: 2009 +A1: 2010 +A12: 2011 +A2: 2013 (EU); IEC/EN 60825-1: 2014 (Class 1 Laser Product); EN 62479: 2010 /IEC 62749: 2010; Low Voltage Directive 2006/95/EC with CE Mark (Europe); UL/cUL Listed and UC CoC (US/Canada); CAN/CSA C22.2 No. 60950-1-07 2nd Ed. 2014-10 |
| Environmental | Mercury-free |
| Blue Angel compliant | Yes, Blue Angel DE-UZ 205—only ensured when using Original HP supplies |
| FCC Class A Emissions | FCC Class A emissions - for use in commercial environments, not residential environments |

## SOFTWARE AND APPLICATIONS

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|---|---|
| Driver updates | Latest supported operating systems and print drivers available at https://support.hp.com |
| Downloadable software | From 123.hp.com: HP Easy Start (Guided Software Install for Windows and Mac); From HP.com for Windows OS: Full-solution software and drivers (Same solution as "Software Included"); Basic-solution software and drivers (with installer) Product Documentation and Support; From HP.com for Mac OS: HP Easy Start (Guided Software Install); For Mobile OS: See "HP Mobile Printing" (http://www8.hp.com/us/e##BLANK##ds/mobility/overview.html); From In-OS app stores: HP Smart for Windows(HP AiO Remote for Win 8+); HP recommended printer drivers and software; From HP.com for printer administrators: Linux Print Drivers; HP Web JetAdmin Software (HP SNMP Proxy Agent) |
| Mac compatible | Yes |
| Software included | For Windows OS: HP Software Installer, HP Software Uninstaller (exclude Win8+), HP PCLmS Printer Driver, HP Device Experience (DXP), HP Web Services Assist (HP Connected), Device Setup & Software, Online user manuals, HP Printer Assistant, HP Product Improvement Study. For Mac OS: Welcome Screen, (Directs users to HP.com or OS App Soure for LaserJet Software) |

## SUPPORTED OPERATING SYSTEMS

| | |
|---|---|
| Compatible Operating Systems | Windows® 10, 8.1, 8, 7: 32-bit or 64-bit, 2 GB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer. Apple®OS X EI Capitan (v10.11) macOS Sierra (v10.12) macOS High Sierra, (v10.13); 1.5 GB HD; Internet required; USB Linux (For more information, see https://developers.hp.com/hp-linux-imaging-and-printing) |

| | |
|---|---|
| **Compatible network operating systems** | **Windows® 10, 8.1, 8, 7: 32-bit or 64-bit, 2 GB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer. Apple®OS X EI Capitan (v10.11) macOS Sierra (v10.12) macOS High Sierra, (v10.13); 1.5 GB HD; Internet required; USB Linux (For more information, see https://developers.hp.com/hp-linux-imaging-and-printing)** |
| **Operating system (supported note)** | **Not supporting Windows® XP (64-bit) and Windows Vista® (64-bit) . Not all "Compatible Operating Systems" are supported with INBOX software; Full solution software available only for Windows 7 and newer; For Windows Server 2008 R2 64-bit, 2012 64-bit, 2012 R2 64-bit, 2016 64-bit only print driver is installed. Windows RT OS for Tablets (32 & 64-bit) uses a simplified HP print driver built into the RT OS; Linux systems use in-OS HPLIP software.** |

## PRINT RESOLUTION

| | |
|---|---|
| **Print quality black (normal)** | **Up to 600 x 600 x 2 dpi** |
| **Print quality black (best)** | **Up to 600 x 600 x 2 dpi** |
| **Print resolution black (fine lines)** | **Up to 600 x 600 dpi** |

## RACK AND POWER SPECIFICATIONS

| | |
|---|---|
| **Typical electricity consumption (TEC) number** | **ES: 0.710 kWh/Week** |
| **Number of users** | **1-5 Users** |
| **Typical electricity consumption (TEC) footnote number** | **[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.** |

## PRINT AREA

| | |
|---|---|
| **Right margin (A4)** | **2 mm** |
| **Top margin (A4)** | **2 mm** |
| **Bottom margin (A4)** | **2 mm** |
| **Left margin (A4)** | **2 mm** |

## SERVICES

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|---|---|
| **Services (Care Pack)** | **UB4Z0E - HP 2y Onsite Exchange NS L 1xxx SVC;** <br> **UB4Z1E - HP 3y Onsite Exchange NS L 1xxx SVC;** <br> **UB4Z2E - HP 4y Onsite Exchange NS L 1xxx SVC;** <br> **UB4Z3E - HP 2y NBD Exchange NS L 1xxx SVC;** <br> **UB4Z4E - HP 3y NBD Exchange NS L 1xxx SVC;** <br> **UB4Z5E - HP 4y NBD Exchange NS L 1xxx SVC;** <br> **UB4Z6E - HP 2y Std Exchange NS L 1xxx SVC;** <br> **UB4Z7E - HP 3y Std Exchange NS L 1xxx SVC;** <br> **UB4Z8E - HP 4y Std Exchange NS L 1xxx SVC;** <br> **UB4Z9E - HP 2y Return to Depot NS L 1xxx SVC;** <br> **UB5A0E - HP 3y Return to Depot NS L 1xxx SVC;** <br> **UB5A1E - HP 4y Return to Depot NS L 1xxx SVC** |

## ADVANCED FEATURES

| | |
|---|---|
| **Printer smart software features** | **Apple AirPrint™, Mopria-certified, HP Auto-On/Auto-Off, Wi-Fi Direct, HP Smart App** |

## FOOTNOTES

| | |
|---|---|
| **Tech spec footnote** | **[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. Power consumption values typicallty based on measurement of 115 V device.** |