

# HP LaserJet Ultra MFP M230 series



## Rely on consistent, professional quality two-sided documents with ultra-low printing costs.<sup>2</sup>

Take advantage of ultra-low printing costs with an efficient HP LaserJet Ultra MFP and enough toner to print up to 15,000 pages.<sup>1</sup> Produce consistent, professional two-sided documents at print costs attractive for the price conscious customers.



HP LaserJet Ultra MFP M230sdn



HP LaserJet Ultra MFP M230fdw

### HP quality, competitive costs—why risk it?

- With toner for up to 15,000 pages included,<sup>1</sup> you're ready for high-volume, reliable printing at low costs.
- This HP LaserJet Ultra prints for up to 60% lower cost per page than its predecessor.<sup>2</sup>
- Lock in Original HP quality you can depend on at print costs that are completely irresistible.
- Start printing right out of the box, using a preinstalled Original HP LaserJet toner cartridge.
- Have confidence in your connection with steady performance from dual band Wi-Fi®.

### Fast speeds, low energy use

- Print, scan, copy and fax<sup>16</sup> with a compact multifunction laser printer that fits into tight workspaces.
- Get print speeds up to 30ppm, fast two-sided printing, and first pages in just 7 seconds.
- Help save energy with HP Auto-On/Auto-Off Technology.<sup>4</sup>
- Easily scan files directly to email, USB, and network folders<sup>16</sup> with preloaded business apps.<sup>5</sup>

### Easy mobile printing and printer management

- Print from iPhone® and iPad® with AirPrint®, which automatically scales jobs to the correct paper size.<sup>7</sup>
- Print with the ease of sending an email, right from a smartphone, tablet, or notebook, using HP ePrint.<sup>9</sup>
- Send jobs from your smartphone, tablet, or PC to any company printer, using Google Cloud Print™ 2.0.<sup>10</sup>
- Easily control, manage, and monitor your printing environment with HP Web Jetadmin.<sup>11</sup>

### HP quality—print after print

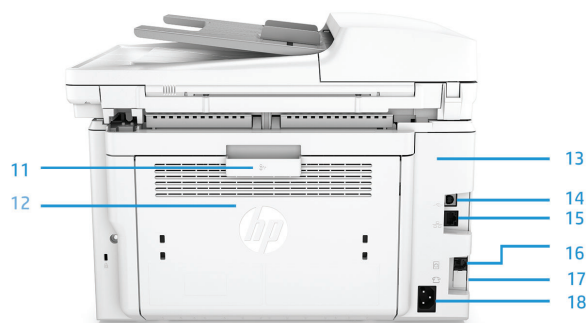
- Produce sharp text, bold blacks, and crisp graphics with precision black toner.
- Don't be fooled by cartridges that mimic Original HP. Help ensure you're getting the quality you paid for.
- Optimize your investment with technology that tracks toner levels and delivers more pages per cartridge.<sup>1</sup>
- Get professional-quality pages and the performance you expect with Original HP toner cartridges.

## Product walkaround

1. 35-sheet automatic document feeder (ADF)
2. Flatbed scanner handles sheets up to 216 x 356 mm
3. 150-sheet output bin
4. Built-in wireless networking (M230fdw model only)
5. Top cover access to the toner cartridge
6. Power on/off button
7. 10-sheet priority input tray 1
8. 250-sheet main input tray 2
9. Easy-access USB port (M230fdw model only)
10. Intuitive 6.85 cm (2.7 inch) colour touchscreen (M230fdw model only)
11. Rear door (access for clearing jams)
12. Built-in automatic two-sided printing
13. 800 MHz processor, 256 MB RAM
14. Hi-Speed USB 2.0 printing port
15. Fast Ethernet network port
16. Fax "line in" port (M230fdw model only)
17. Telephone "line out" port (M230fdw model only)
18. Power connection



HP LaserJet Ultra MFP M230fdw



## Series at a glance



| Model  | HP LaserJet Ultra MFP M230sdn   | HP LaserJet Ultra MFP M230fdw   |
|--|---|---|
| <b>Product number</b>                          | G3Q76A  | G3Q77A  |
| <b>Functions</b>                               | Print, copy, and scan   | Print, copy, scan, and fax  |
| <b>Print speed (black, normal)<sup>1</sup></b> | Up to 28 ppm, A4  | Up to 28 ppm, A4  |
| <b>First page out from ready<sup>2</sup></b>   | As fast as 6.7 seconds  | As fast as 6.5 seconds  |
| <b>Control panel</b>                           | 2-line LCD (text)   | 6.85 cm (2.7 inch) color touchscreen  |
| <b>Input capacity</b>                          | 260 sheets (250-sheet main tray, 10-sheet priority tray)                                  | 260 sheets (250-sheet main tray, 10-sheet priority tray)  |
| <b>Automatic two-sided printing</b>            | Yes   | Yes   |
| <b>Automatic document feeder</b>               | 35-sheet  | 35-sheet  |
| <b>Easy-access USB port</b>                    | No  | Yes   |
| <b>Networking</b>                              | Built-in Ethernet   | Built-in Ethernet, Wireless 802.11b/g/n <sup>3</sup>  |
| <b>Mobile printing capability</b>              | HP ePrint, <sup>4</sup> Apple AirPrint, <sup>5</sup> Google Cloud Print™ 2.0 <sup>6</sup> | HP ePrint, <sup>4</sup> Wi-Fi Direct®, <sup>7</sup> Apple AirPrint, <sup>5</sup> Google Cloud Print 2.0, <sup>6</sup> NFC touch-to-print enabled, <sup>8</sup> Mopria-certified |

## HP Services

Downtime can have serious consequences, so HP provides support beyond the standard warranty. You benefit from reduced risk, maximized uptime, predictable service delivery and no unbudgeted repair costs.

Choose from:

### Optimized Care (optimum performance and stability):

4 hour Onsite Support, Maintenance Kit Replacement Service, Installation with Network Configuration Service

### Standard Care (high level of uptime):

Next Business Day Onsite Support, Maintenance Kit Replacement Service, Installation with Network Configuration Service

### Basic Care (minimum recommended support):

Next Business Day Onsite Support

### 4 hour Onsite Support:

Onsite support within four hours after a service call received within the coverage window

### Next Business Day Onsite Support:

Onsite service the next business day after the service call is received

### Maintenance Kit Replacement Service:

Onsite replacement of your printer's maintenance kit including parts, materials, and labor

### Installation with Network Configuration Service:

Assembly, network configuration, and basic administrator familiarization. For more information about HP Care Pack, HP Contractual, or HP Managed Print Services, visit [hp.com/go/printservices](http://hp.com/go/printservices)

## Top Features

Don't risk quality on cheap toner: Avoid annoying reprints with enough precision black toner included for up to 15,000 consistent, professional pages.<sup>1,13</sup> This HP LaserJet Ultra MFP delivers up to 50% lower cost per page than its predecessor.<sup>2</sup>

Help save energy without slowing down. This quiet, efficient HP LaserJet Pro MFP quickly prints, scans, and copies while helping to keep energy costs low, so you save time and resources.

Print with minimal steps from a broad range of mobile devices—smartphones, tablets, and notebooks.<sup>6</sup> And with HP Web Jetadmin, easily monitor and manage devices, settings, and supplies status to help make printing more efficient and secure.<sup>12</sup>

Count on consistent results, and help protect your business with anti-fraud authentication.

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### Product

**G3Q76A** HP LaserJet Ultra MFP M230sdn

**G3Q77A** HP LaserJet Ultra MFP M230fdw

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### Replacement cartridges

**CF231A** HP 31A Black Original LaserJet Toner Cartridge (5,000 pages)

**CF232A** HP 32A Original LaserJet Imaging Drum (23,000 pages)

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### HP Care Packs

**UH757E** HP 3 year Care Pack w/Next Day Exchange for LaserJet Printers

**UH764E** HP 3 year Care Pack w/Return to Depot Support for LaserJet Printers

**UH773E** HP 3 year Care Pack w/Onsite Exchange for LaserJet Printers

Protect your investment with HP Care Pack. Let HP certified engineers resolve your technical issues. For more details on HP Care Pack, go to [hp.com/go/cpc](http://hp.com/go/cpc)

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### Paper

Contact HP via phone: Asia: 65 6253 8500

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### Solutions

HP Web Jetadmin: [hp.com/go/wja](http://hp.com/go/wja)

HP Universal Print Driver: [hp.com/go/upd](http://hp.com/go/upd)

HP Imaging and Printing Security Center: [hp.com/go/ipsc](http://hp.com/go/ipsc)

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Windows 10



# HP LaserJet Ultra MFP M230 series

| Model                                      | HP LaserJet Ultra MFP M230sdn  | HP LaserJet Ultra MFP M230fdw  |
|--|--|--|
| Product number                             | G3Q76A   | G3Q77A   |
| Functions                                  | Print, copy, scan  | Print, copy, scan, fax   |
| <b>Print</b>                               |  |  |
| Duplex print options                       | Automatic (standard)   |  |
| Print speed <sup>11</sup>                  | <b>Black (A4, normal):</b> Up to 28 ppm; <b>Black (letter, normal):</b> Up to 30 ppm; <b>Black (A5, landscape):</b> Up to 49 ppm; <b>Black (A5, portrait):</b> Up to 6 ppm; <b>Black (A4, duplex):</b> Up to 18 ipm; <b>Black (letter, duplex):</b> Up to 18 ipm   |  |
| First page out <sup>13</sup>               | <b>Black (A4, ready):</b> As fast as 6.7 sec; <b>Black (A4, sleep):</b> As fast as 6.9 sec   | <b>Black (A4, ready):</b> As fast as 6.5 sec; <b>Black (A4, sleep):</b> As fast as 6.9 sec   |
| Print technology                           | Laser  |  |
| Print resolution                           | <b>Black (best):</b> Up to 1200 x 1200 dpi; <b>Black (normal):</b> Up to 600 x 600 dpi, HP FastRes 1200 (1200 dpi quality)   |  |
| Print resolution technology                | HP FastRes 1200, HP ProRes 1200  |  |
| Print cartridges number                    | 3 Black  |  |
| Standard print languages                   | PCL5c; PCL6; PS; PCLmS; PDF; URF; PWG  |  |
| Printer management                         | HP Printer Assistant (UDC); HP Utility (Mac); HP Device Toolbox; HP JetAdvantage Security Manager  |  |
| <b>Scan</b>                                |  |  |
| Scan technology                            | <b>Type:</b> ADF, flatbed; <b>Technology:</b> CIS  |  |
| Scan speed                                 | <b>Normal, A4:</b> Up to 12 ppm  |  |
| Scan resolution                            | <b>Hardware:</b> Up to 300 x 300 dpi (color and mono, ADF); Up to 1200 x 1200 dpi (color and mono, flatbed); <b>Optical:</b> Up to 300 dpi (color and mono, ADF); Up to 1200 dpi (color and mono, flatbed)   |  |
| Scan size                                  | <b>Flatbed:</b> 215.9 x 297 mm; <b>ADF scan size:</b> 215.9 x 355.6 mm   |  |
| Scan input modes                           | Scanning via HP LaserJet Software Scan or TWAIN-compliant or WIA-compliant software  | Front control panel, scanning via HP LaserJet Software Scan or TWAIN-compliant or WIA-compliant software   |
| Scan file format                           | JPG, RAW (BMP), PNG, TIFF, PDF   |  |
| <b>Copy</b>                                |  |  |
| Copy smart software features               | Automatic document feeding   |  |
| Copy speed <sup>14</sup>                   | <b>Black (A4, normal):</b> Up to 28 cpm; <b>Black (letter, normal):</b> Up to 30 cpm; <b>Black Duplex (A4):</b> Up to 18 cpm; <b>Black (letter, duplex):</b> Up to 18 cpm  |  |
| First copy out                             | <b>Black (A4):</b> As fast as 6.6 sec; <b>Black (A4, sleep):</b> As fast as 6.6 sec; <b>Black (letter):</b> As fast as 6.2 sec; <b>Black (letter, sleep):</b> As fast as 6.3 sec   | <b>Black (A4):</b> As fast as 6.8 sec; <b>Black (A4, sleep):</b> As fast as 6.8 sec; <b>Black (letter):</b> As fast as 6.4 sec; <b>Black (letter, sleep):</b> As fast as 6.6 sec   |
| Copy resolution                            | <b>Black (text and graphics):</b> 600 x 600 dpi  |  |
| Max. number of copies                      | Up to 99 copies  |  |
| Copier resize                              | 25 to 400%   |  |
| Copier settings                            | Number of Copies; Lighter/Darker; Optimize; Paper; Multi-Page Copy; Collation; Draft Mode  |  |
| <b>Fax</b>                                 |  |  |
| Fax speed                                  | No   | 33.6 kbps  |
| Fax resolution                             | No   | Up to 300 x 300 dpi (halftone enabled)   |
| Fax features                               | No   | <b>Auto fax reduction supported:</b> Yes; <b>Auto-redialing:</b> Yes; <b>Fax delayed sending:</b> Yes; <b>Distinctive ring detection supported:</b> Yes; <b>Fax forwarding supported:</b> Yes; <b>Junk barrier supported:</b> Yes; <b>Maximum speed dialing numbers:</b> Up to 120 numbers (119 group dials); <b>PC interface supported:</b> Yes; <b>Fax polling supported:</b> Yes (poll to receive only) |
| Fax memory                                 | No   | <b>Fax memory (A4):</b> Up to 1,000 pages; <b>Fax memory (letter):</b> Up to 1,000 pages   |
| Fax smart software features                | No   | Fax address book; Speed-dial; fax billing codes; Fax archiving and forwarding; Black incoming faxes  |
| <b>Connectivity</b>                        |  |  |
| Standard connectivity                      | 1 Hi-Speed USB 2.0; 1 Ethernet 10/100network   | 1 Hi-Speed USB 2.0 (device); 1 Hi-Speed USB 2.0 (host); 1 Ethernet 10/100Base-TX; 1 phone line (in); 1 phone line (out), wireless, NFC   |
| Mobile printing capability                 | HP ePrint; AirPrint®, Google Cloud Print™ 2.0  | HP ePrint; Wi-Fi Direct® printing; AirPrint®, Google Cloud Print™ 2.0; NFC touch-to-print enabled  |
| Network ready                              | Standard (built-in Ethernet)   | Standard (built-in Ethernet, WiFi 802.11b/g/n)   |
| Wireless capability                        | No   | built-in WiFi 802.11b/g/n  |
| Memory                                     | <b>Standard:</b> 256 MB; <b>Maximum:</b> 256 MB  |  |
| Processor speed                            | 800 MHz  |  |
| Duty cycle (monthly) <sup>9</sup>          | Up to 40,000 pages; <b>Recommended monthly page volume</b> <sup>10</sup> : 350 to 3000   |  |
| <b>Paper handling</b>                      |  |  |
| Input                                      | 250-sheet input tray, 10-sheet priority tray;  |  |
| Output                                     | 150-sheet output tray  |  |
| Media type                                 | Paper (laser, plain, photo, rough, vellum), envelopes, labels, cardstock, postcards  |  |
| Media weight                               | 60 to 163 g/m <sup>2</sup>   |  |
| Media sizes custom                         | 76 x 127 to 216 x 356 mm   |  |
| Dimensions (W x D x H)                     | 403 x 407.4 x 311.5 mm   |  |
| Weight                                     | 10 kg  |  |
| What's in the box <sup>2</sup>             | HP LaserJet Pro MFP M230sdn; HP Black LaserJet Toner Cartridge ~15,000 (5,000 x 3) pages; HP LaserJet Imaging Drum ~23,000 pages; Power cord; USB cable (AP); Getting started guide; Set up poster; Support flyer; Warranty documents (CN, Indo, AU, Mex, BR, AG); Printer documentation and software on CD-ROM; Errata, declaration (some countries)  | HP LaserJet Pro MFP M230fdw; HP Black LaserJet Toner Cartridge ~15,000 (5,000 x 3) pages; HP LaserJet Imaging Drum ~23,000 pages; Power cord; USB cable; Getting started guide; Set up poster; Support flyer; Warranty documents (CN, Indo, AU, Mex, BR, AG); Printer documentation and software on CD-ROM; Errata, declaration (some countries)   |
| Warranty features                          | one year limited warranty  |  |
| <b>Systems</b>                             |  |  |
| Compatible operating systems <sup>17</sup> | 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, Windows Vista® (32-bit only), 2 GB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer 8, Windows® XP SP3 or higher (32-bit only); any Intel® Pentium® II, Celeron® or 233 MHz compatible processor, 850 MB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer 8 Apple® OS X Sierra(v10.12), OS X El Capitan (v10.11), OS X Yosemite (v10.10); 1 GB HD; Internet required; USB. Linux (For more information, see <a href="http://hplipopensource.com/hplip-web/index.html">http://hplipopensource.com/hplip-web/index.html</a> ). Unix (For more information, see <a href="http://www.hp.com/go/unixmodelscripts">http://www.hp.com/go/unixmodelscripts</a> ) |  |
| Minimum system requirements                | <b>PC:</b> 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, Windows Vista® (32-bit only), 2 GB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer 8, Windows® XP SP3 or higher (32-bit only); any Intel® Pentium® II, Celeron® or 233 MHz compatible processor, 850 MB available hard disk space, CD-ROM/DVD drive or Internet connection, USB port, Internet Explorer 8<br><b>Mac:</b> Apple® OS X Sierra(v10.12), OS X El Capitan (v10.11), OS X Yosemite (v10.10); 1 GB HD; Internet required; USB  |  |
| Security management                        | Password-protected network embedded Web server; enable/disable Network ports; SNMPv1 community password change; 802.1x authentication  |  |
| Fonts and Typefaces                        | 84 scalable TrueType fonts   |  |
| Control panel                              | 2-line LCD; 2-line LCD text display; Buttons(OK, Back, Forward/Backward, Cancel, Number of Copy, Darker/Lighter, Copy Menu, Start Copy, Main Setup); 2 light-emitting diode (LED) indicator lights (Ready, Attention).   | 2.7-in touch screen, LCD (color graphics)  |
| Display                                    | 2-line LCD   | 2.7-in touch screen, LCD (color graphics)  |
| Power                                      | <b>Power supply type:</b> Internal; <b>Power supply required:</b> 110-volt input voltage: 110 to 127 VAC (+/- 10%), 60 Hz/50 Hz, 5.9 A; 220-volt input voltage: 220 to 240 VAC (+/- 10%), 60 Hz/50 Hz, 3.3 A; <b>Power consumption</b> <sup>3</sup> : 475 watts (active printing), 4.5 watts (ready), 1.0 watts (sleep), 0.1 watts (Auto Off/Wake on USB, enabled at shipment), 0.05 watts (Auto-off/Manual-on), 0.05 watts (Manual Off); <b>Typical electricity consumption (TEC) number:</b> BA: 0.941 kWh/Week; ES: 0.926 kWh/Week  |  |
| Software included                          | For Windows OS: HP Software Installer, HP Software Uninstaller (exclude Win8+), HP PCL6 Printer Driver, HP Device Experience (DXP), HP Connected, Device Setup & Software, HP Printer Assistant, HP Product Improvement Study<br>Online user manuals, HP Scan Driver, HP Scan Application, HP Fax Driver (4:1 bundle only), HP Fax Application (4:1 bundle only). For Mac OS: Welcome Screen, (Directs users to HP.com or OS App Source for LaserJet Software)   |  |
| Acoustics                                  | <b>Acoustic power emissions:</b> 6.6 B(A) (printing at 28 ppm); <b>Acoustic power emissions (ready):</b> 2.8 B(A); <b>Acoustic pressure emissions bystander (active, printing):</b> 52 dB(A); <b>Acoustic pressure emissions bystander (ready):</b> 16 dB(A)   |  |
| Environmental ranges                       | <b>Operating temperature range:</b> 15 to 32.5°C; <b>Recommended operating temperature:</b> 17.5 to 25°C; <b>Non-operating humidity range:</b> 10 to 90% RH; <b>Operating humidity range:</b> 10 to 80% RH; <b>Recommended operating humidity range:</b> 30 to 70% RH  |  |
| Safety approvals and requirements          | IEC 60950-1:2005 +A1:2009+A2:2013/EN60950-1:2006 +A1:2009 +A1:2010+A2:2011+A2:2013; IEC 60825-1:2007 / EN 60825-1:2007 (Class 1 Laser/LED Product); IEC 62479:2010 / EN 62479:2010; GB4943-2011  |  |
| Supported network protocols                | TCP/IP: IPv4; IPv6; IP Direct Mode; LPD; SLP; Bonjour; WS-Discovery; BOOTP/DHCP/ AutolP; WINS; SNMP v 1/2/3; and HTTP/HTTPS  |  |

## Footnotes

- <sup>1</sup> Declared yields based on ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors. Learn more at <http://www.hp.com/go/learnaboutsupplies>
- <sup>2</sup> Cost per page (CPP) comparison between HP LaserJet Ultra and predecessor HP printers and MFPs based on published specifications of the manufacturers' highest capacity cartridges and long-life consumables. CPP based on page yield and manufacturer's suggested retail price (MSRP) for the cartridge consumables. Actual prices may vary. ISO yield based on continuous printing in default mode. For more information, see <http://www.hp.com/go/learnaboutsupplies>
- <sup>3</sup> Measured using ISO/IEC 17629. Exact speed varies depending on the system configuration, software application, driver, and document complexity. Learn more at <http://www.hp.com/go/printerclaims>
- <sup>4</sup> HP Auto-On/Auto-Off Technology capabilities are subject to printer and settings.
- <sup>5</sup> Requires an Internet connection to the printer. Services may require registration. App availability varies by country, language, and agreements. For details, see <http://www.hpconnected.com>
- <sup>6</sup> Wireless operations are compatible with 2.4 GHz operations only. App or software and HP ePrint account registration also may be required. Some features require purchase of an optional accessory. Learn more at <http://www.hp.com/go/mobileprinting>
- <sup>7</sup> Mobile device must have iOS v7.0 or higher. Learn more at <http://www.hp.com/go/mobileprinting>
- <sup>8</sup> Feature is supported on select printers. Mobile device needs to be connected directly to the signal of a Wi-Fi Direct® supported MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. For details, see <http://www.hp.com/go/mobileprinting>. Wi-Fi Direct is a registered trademark of Wi-Fi Alliance®.
- <sup>9</sup> Printer requires ePrint account registration. App or software may be required. Wireless operations are compatible with 2.4 GHz operations only. Learn more at <http://www.hp.com/go/mobileprinting>
- <sup>10</sup> Requires Google Cloud Print™ registration and Google account. Wireless operations are compatible with 2.4 GHz operations only. Learn more at <http://www.hp.com/go/mobileprinting>
- <sup>11</sup> Not all HP Web Jetadmin features are supported on the HP LaserJet Pro MFP M227. HP Web Jetadmin is available for download at no additional charge at <http://www.hp.com/go/webjetadmin>
- <sup>12</sup> As compared with cartridge gauges for HP predecessor products.
- <sup>13</sup> 2014 SpencerLab Colour Reliability study, commissioned by HP, compared Original HP color LaserJet cartridges with 6 brands of non-HP cartridges (reman and compatibles) sold in Europe, Middle East, and Africa for the HP LaserJet Enterprise 500 color M551, CE400A/X, CE401A/02A/03A cartridges. For details, see [www.spencerlab.com/reports/HP-CLR-Reliability-EMEA-2014.pdf](http://www.spencerlab.com/reports/HP-CLR-Reliability-EMEA-2014.pdf) The 2016 SpencerLab Monochrome study commissioned by HP compared Original HP cartridges with 8 brands of non-HP cartridges for the HP Pro M127 and Pro 400 printers, HP 83A and 80A cartridges. For details, see [www.spencerlab.com/reports/HPReliability-EMEA-2016.pdf](http://www.spencerlab.com/reports/HPReliability-EMEA-2016.pdf)
- <sup>14</sup> Based on average monthly page volumes of about 625 and declared ISO/IEC 19752 yields. Actual results may vary considerably based on content printed and other factors. For details see <http://www.hp.com/go/learnaboutsupplies>
- <sup>15</sup> Based on HP internal research on competitor offerings (Device Security Comparison January 2015), and Solutions Report on HP JetAdvantage Security Manager 2.1 from Buyers Laboratory LLC, February 2015. Requires separate purchase. For details, see <http://www.hp.com/go/securitymanager>
- <sup>16</sup> Fax function is apply to M230fdw model only.

## Product walkaround disclaimers

- <sup>1</sup> Printing speed measured using ISO/IEC 24734 and excludes first set of test documents. Exact speed varies depending on the system configuration, software application, driver, and document complexity. For more information see [hp.com/go/printerclaims](http://www.hp.com/go/printerclaims).
- <sup>2</sup> Measured using ISO/IEC 17629. Exact speed for first page out varies depending on the system configuration, software application, driver, and document complexity. Learn more at [hp.com/go/printerclaims](http://www.hp.com/go/printerclaims).
- <sup>3</sup> Wireless performance is dependent on physical environment and distance from access point, and may be limited during active VPN connections.
- <sup>4</sup> Printer requires ePrint account registration. App or software may be required. Learn more at [hp.com/go/mobileprinting](http://www.hp.com/go/mobileprinting).
- <sup>5</sup> Mobile device must have iOS v7.0 or higher. Learn more at [hp.com/go/mobileprinting](http://www.hp.com/go/mobileprinting).
- <sup>6</sup> Requires Google Cloud Print™ registration and Google™ account. Learn more at [hp.com/go/mobileprinting](http://www.hp.com/go/mobileprinting).
- <sup>7</sup> Mobile device needs to be connected directly to the signal of a Wi-Fi Direct® supported MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. For details, see [hp.com/go/mobileprinting](http://www.hp.com/go/mobileprinting). Wi-Fi Direct is a registered trademark of Wi-Fi Alliance®.
- <sup>8</sup> Requires a compatible NFC-printing-enabled mobile device. For a list of compatible NFC-printing-enabled mobile devices, see [hp.com/go/nfcprinting](http://www.hp.com/go/nfcprinting).

## Technical specifications disclaimers

- <sup>1</sup> EPEAT® registered where applicable. EPEAT registration varies by country. See <http://www.epeat.net> for registration status by country.
- <sup>2</sup> Qty: 3, HP 31A Original Black LaserJet Toner Cartridges (~15,000 (5,000 x 3) yield total), HP 32A Original LaserJet Imaging Drum (~23,000 yield). Actual yields vary considerably based on images printed and other factors. For details see <http://www.hp.com/go/learnaboutsupplies>
- <sup>3</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. Power consumption values typically based on measurement of 115 V device.
- <sup>4</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 115 V device.
- <sup>5</sup> Based on the BA TEC method with the following possible exceptions: 1 minute or less sleep delay setting, Wi-Fi disabled.
- <sup>6</sup> Declared yield value in accordance with ISO/IEC 19752. Actual yields vary considerably based on images printed and other factors. For details see <http://www.hp.com/go/learnaboutsupplies>
- <sup>7</sup> HP SureSupply alerts you when your print cartridge is running low and helps you purchase online or locally through HP or a participating retailer. For more information, visit <http://www.hp.com/go/SureSupply>; only available with Original HP supplies; Internet access required.
- <sup>8</sup> 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.
- <sup>10</sup> 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.
- <sup>11</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>12</sup> Measured using ISO 24734 Feature Test, A5 Landscape Feed. Speed may vary based on content, PC, media orientation, and media type.
- <sup>13</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>14</sup> First Copy Out and Copy Speed measured using ISO/IEC 29183, 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>17</sup> 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; Legacy Windows Operation Systems (XP, Vista, and equivalent servers) get print drivers only; For Windows Server 2003 32-bit and 2008 32-bit and 64-bit, 2008 R2 64-bit, 2012 64-bit, 2012 R2 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

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