



# HP Color LaserJet Enterprise Flow MFP X677zs Printer

Powerfully productive. Extraordinarily efficient.

Transform your workflows with advanced capabilities in a compact footprint. Customizable configurations from print speeds to color panels<sup>9</sup> help to meet the needs of busy workgroups. All while protecting your business against evolving security threats.



This printer is intended to work only with cartridges that have a new or reused HP chip, and it uses dynamic security measures to block cartridges using a non-HP chip. Periodic firmware updates will maintain the effectiveness of these measures and block cartridges that previously worked. A reused HP chip enables the use of reused, remanufactured, and refilled cartridges. More at: <http://www.hp.com/learn/ds>



Storage



Print apps



HP Web Jetadmin



Privacy

## Customizable and scalable solutions.

- Expand device functionality and performance with upgradeable options through any point while in contract.
- Get the functionality you need with input options to help optimize your device to meet your business needs and your budget.
- Choose storage options to handle data and documents stored on the device.

## Fast and seamless digitization

- Customize your print experience with cloud-connected HP Workpath apps. Access personalized content and integrate paper and digital workflows.<sup>1</sup>
- Give your team the tools to succeed with the HP Open Extensibility Platform containing hundreds of HP and third-party solutions, and card reader support.
- Make color management simple with HP Custom Color Manager. Match color output of any document-device combination by simply pulling color profiles from the cloud. Get high-quality color profiles without the hassle of expensive color matching systems.<sup>10</sup>
- Targeted fusing technology<sup>2</sup> requires less energy and helps to reduce cooling requirements allowing for larger, faster color print jobs.

## Everything you expect from an office printer

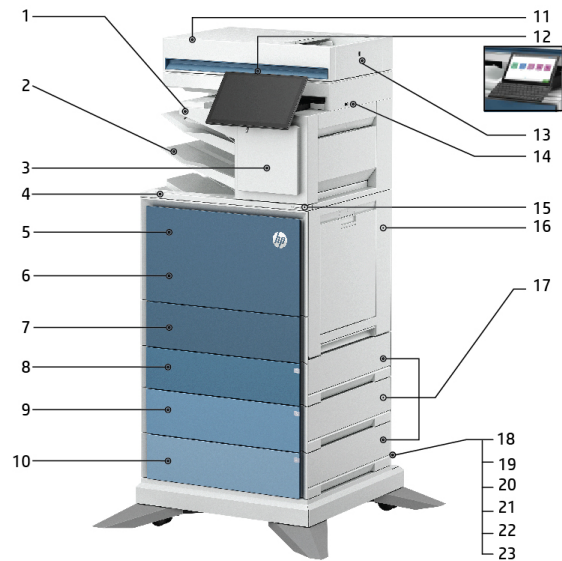
- Experience ultra-fast scanning speeds and ultimate productivity with HP Flow technology and up to 200 ipm<sup>3</sup>
- Busy work groups can get everything done with fast print speeds of up to 65 PPM<sup>4</sup> setting the pace to handle any workload with reliable quality.
- Avoid interruptions and lost productivity with reverse and retry technology<sup>5</sup> that automatically detects and resolves multi-sheet feed issues.
- Easily scan and capture text to digitize documents with high accuracy OCR software. Once scanned, make edits to the document before printing. Increase the speed of OCR scanning with an optional accelerator card.<sup>6</sup>
- Save time by scanning once and sending to multiple destinations with customized shortcuts to eliminate steps and avoid misdirection.

## Always on guard with HP Wolf Security

- With HP Sure Start always working behind the scenes, the operating code (BIOS) is automatically checked during start-up and repairs itself if compromised.
- HP Connection Inspector examines network connections. The printer's outgoing network connections are inspected to stop suspicious requests and thwart malware so you can stay connected and in the clear.
- Memory Shield<sup>TM</sup> and expanded run-time intrusion detection protects memory and other applications. Common Criteria certified<sup>8</sup> to continually monitor memory activity, detect and stop zero-day attacks in real time [known/unknown] and self-heal.
- Minimize exposure with whitelisting checks, firmware that is automatically checked during start-up to determine if it's authentic code – digitally signed by HP.

## Product walkaround

1. Hardware Integration Pocket<sup>1</sup> (for connecting accessories and third-party devices)
2. 750-sheet multi-bin staple finisher
3. Staple cartridge access door
4. Automatic 2-sided printing
5. Front door access to process cartridges
6. HP High Performance Secure Hard Disk
7. Front door access to toner cartridges
8. 550-sheet tray 2 supports media sizes up to Legal (8.5x14 inch)
9. 550-sheet tray 3 supports media sizes up to Legal (8.5x14 inch)
10. 550-sheet tray 4 supports media sizes up to Legal (8.5x14 inch)
11. 150-sheet dual side Flow enabled ADF supports media sizes up to Legal (8.5x14 inch)
12. 10.1 inch color touchscreen display (25.6 cm) - Optional QWERTY physical keyboard attaches only to 10.1 inch color touchscreen display Full size keyboard (Flow models only)
13. Long originals media sensor
14. Easy-access USB port<sup>2</sup>
15. Power button
16. Right door access to the print path
17. Tray 2, 3 & 4 jam access doors
18. Slot for cable-type security lock<sup>3</sup>
19. SuperSpeed USB 3.0 Host Port<sup>3</sup>
20. Hi-Speed USB 2.0 Host Port<sup>3</sup>
21. Gigabit Ethernet Port<sup>3</sup>
22. SuperSpeed 3.0 device port<sup>3</sup>
23. (Optional OCR Accelerator Card)<sup>3</sup>



<sup>1</sup> Solutions deployed through the Hardware Integration Pocket (HIP) may require additional purchase. <sup>2</sup> An administrator must enable the easy-access USB port before use. <sup>3</sup> Additional items included on the back of the printer in the Input/Output Plate.

## Series at a glance



Model	HP Color LaserJet Enterprise Flow MFP X677zs Printer
Product number	6QQ02A
Functions	Print, copy, and scan (fax and wireless optional) (all models)
Print speed	Up to 52 ppm (A4)
Control panel	10.1 inch color touchscreen display
Scan speed	95 ppm(A4 b&w/color)/190 ipm(A4 b&w/color) (simplex/duplex)
RMPV	Up to 30,000 pages per month
Input capacity	1,750/1,750 (std/max)
Output capacity (standard)	1,000-sheets
Processor	Quad-core 1.6 GHz
Flow solutions	Yes
Workpath enabled	Yes
Extensibility	HP FutureSmart 5, OXPd

## Accessories, Supplies and Support

Supplies	<p>W9270MC HP Blk Managed LaserJet Toner Crtg(~44,000 pages)  W9271MC HP Cyn Managed LaserJet Toner Crtg(~33,000 pages)  W9272MC HP Ylw Managed LaserJet Toner Crtg(~33,000 pages)  W9273MC HP Mgn Managed LaserJet Toner Crtg(~33,000 pages)  W9280MC HP Blk Managed LaserJet Imaging Drum(~150,000 pages)  W9281MC HP Cyn Managed LaserJet Imaging Drum(~150,000 pages)  W9282MC HP Ylw Managed LaserJet Imaging Drum(~150,000 pages)  W9283MC HP Mgn Managed LaserJet Imaging Drum(~150,000 pages)  527G2A HP LaserJet 110V Enhanced Fuser Kit  527G3A HP LaserJet 220V Enhanced Fuser Kit  527G4MC HP LaserJet Managed 110V Enhanced Fuser Kit  527G5MC HP LaserJet Managed 220V Enhanced Fuser Kit  527H0MC HP LaserJet Managed Image Transfer Belt Kit  527H1MC HP LaserJet Managed Transfer Roller Kit  527H2A HP LaserJet Tray 2 Roller Kit  527H3A HP LaserJet MP Tray Roller Kit  6H122A HP LaserJet ADF Maintenance Kit  6M1P3A HP LaserJet ADF Flow Maintenance Kit  527F9A HP LaserJet Toner Collection Unit  J8J96A HP Staple Cartridge Refill (5,000 staples)</p>
Accessories	<p>2TD64A HP Accessibility Kit  4XN67A HP Internal USB Expansion Kit  8FP31A HP Jetdirect LAN Accessory  B5L31A HP Foreign Interface Harness  A7W12A HP LaserJet Keyboard Overlay Kit for Simplified Chinese &amp; Traditional Chinese  A7W13A HP LaserJet Keyboard Overlay Kit-Danish/French-Switzerland/German-Switzerland  A7W14A HP LaserJet Swedish Overlay Keyboard  CC543B HP SmartCard NIPRNet Solution for US Government  F8B30A HP SmartCard SIPRNet Solution for US Government  2NR12A HP Removable Hard Drive Enclosure  478C2A HP Printing Voice Assistant  1M0Q0A HP MFP Analog Fax 702 Accessory  1M0Q1A HP MFP Analog Fax 703 Accessory (BBU option code only)  1M0Q5A HP LaserJet Workflow Accelerator Card  6QN54A HP Color LaserJet Stand  6QN55A HP Color LaserJet Storage Stand  6QN57A HP Color LaserJet 550 Sheet Paper Tray  6QN58A HP Color LaserJet 2100 HCI Feeder and Stand  616G9A HP LaserJet A5 HCI Guide Kit  616H0A HP LaserJet Statement HCI Guide Kit  1M0Q2A HP LaserJet Workflow Keyboard  616H2A HP LaserJet Workflow UK Keyboard  X3D03A HP USB Universal Card Reader  Y7C05A HP HIP2 Keystroke Reader  4QL32A HP Legic Secure USB Reader  35H11A HP HID Mob Acc Mifare DES Fire ks Reader  9EQ11A HP 500GB CCC FIPS Hard Disk Drive  3JN69A HP Jetdirect 3100w BLE/NFC/Wireless  630C2A HP CLJ X677 Constellation Yellow Color Panel Kit  630C3A HP CLJ X677 Cosmic Green Color Panel Kit  630C4A HP CLJ X677 Aurora Purple Color Panel Kit  630C5A HP CLJ X677 Comet Red Color Panel Kit  630C6A HP CLJ X677 Lunar Gray Color Panel Kit  630C7A HP 550 Sheet Paper Tray Constellation Yellow Panel Kit  630C8A HP 550 Sheet Paper Tray Cosmic Green Panel Kit  630C9A HP 550 Sheet Paper Tray Aurora Purple Panel Kit  630D0A HP 550 Sheet Paper Tray Comet Red Panel Kit  630D1A HP 550 Sheet Paper Tray Lunar Gray Panel Kit  630D2A HP HC Tray Constellation Yellow Panel Kit  630D3A HP HC Tray Cosmic Green Panel Kit  630D4A HP HC Tray Aurora Purple Panel Kit  630D5A HP HC Tray Comet Red Panel Kit  630D6A HP HC Tray Lunar Gray Panel Kit  630D7A HP Storage Stand Constellation Yellow Panel Kit  630D8A HP Storage Stand Cosmic Green Panel Kit  630D9A HP Storage Stand Aurora Purple Panel Kit  630F0A HP Storage Stand Comet Red Panel Kit  630F1A HP Storage Stand Lunar Gray Panel Kit  65A28A HP Color LaserJet Constellation Yellow 550 sheet Paper Tray  65A29A HP Color LaserJet Cosmic Green 550 sheet Paper Tray  65A30A HP Color LaserJet Aurora Purple 550 sheet Paper Tray  65A31A HP Color LaserJet Comet Red 550 sheet Paper Tray  65A32A HP Color LaserJet Lunar Gray 550 sheet Paper Tray  65A33A HP Color LaserJet Constellation Yellow 2100 sheet High Capacity Paper Tray/Stand  65A34A HP Color LaserJet Cosmic Green 2100 sheet High Capacity Paper Tray/Stand  65A35A HP Color LaserJet Aurora Purple 2100 sheet High Capacity Paper Tray/Stand  65A36A HP Color LaserJet Comet Red 2100 sheet High Capacity Paper Tray/Stand  65A37A HP Color LaserJet Lunar Gray 2100 sheet High Capacity Paper Tray/Stand  65A38A HP Color LaserJet Constellation Yellow Storage Stand  65A39A HP Color LaserJet Cosmic Green Storage Stand  65A40A HP Color LaserJet Aurora Purple Storage Stand  65A41A HP Color LaserJet Comet Red Storage Stand  65A42A HP Color LaserJet Lunar Gray Storage Stand  766R7A HP LaserJet 512 GB SED-TAA Solid State Drive</p>
Service and Support	<p>U45TKE HP 3 year Next Business Day with DMR Service for Color LaserJet Enterprise MFP X677xx  U45TLE HP 4 year Next Business Day with DMR Service for Color LaserJet Enterprise MFP X677xx  U45TME HP 5 year Next Business Day with DMR Service for Color LaserJet Enterprise MFP X677xx  U45TNE HP 3 year 4 hour 9x5 with DMR Service for Color LaserJet Enterprise MFP X677xx  U45TQE HP 4 year 4 hour 9x5 with DMR Service for Color LaserJet Enterprise MFP X677xx  U45TRE HP 5 year 4 hour 9x5 with DMR Service for Color LaserJet Enterprise MFP X677xx  U45TXE HP 3 year Channel Parts Exchange with DMR Service for Color LaserJet Enterprise MFP X677xx  U45TYE HP 4 year Channel Parts Exchange with DMR Service for Color LaserJet Enterprise MFP X677xx  U45TZE HP 5 year Channel Parts Exchange with DMR Service for Color LaserJet Enterprise MFP X677xx  U45U0PE HP 1 year Post Warranty Next Business Day with DMR Service for Color LaserJet Enterprise MFP X677xx  U45U2PE HP 1 year Post Warranty 4 hour 9x5 with DMR Service for Color LaserJet Enterprise MFP X677xx  U45U6PE HP 1 year PW Channel Parts Exchange with DMR Service for Color LaserJet Enterprise MFP X677xx  U45VXE HP Maintenance Kit Replacement Service for Color LaserJet Enterprise MFP 680x Fuser 110 Enhanced  U45VYE HP Maintenance Kit Replacement Service for Color LaserJet Enterprise MFP 680x Fuser 220 Enhanced  U45VZE HP Maintenance Kit Replacement Service for Color LaserJet Enterprise MFP 680x ITB  U45W0E HP Maintenance Kit Replacement Service for Color LaserJet Enterprise MFP 680x ITB Kit  U45W1E HP Maintenance Kit Replacement Service for Color LaserJet Enterprise MFP 680x X677xx TCU  U45W2E HP Maintenance Kit Replacement Service for Color LaserJet Enterprise MFP 680x X677xx MP Tray Roller  U45W3E HP Maintenance Kit Replacement Service for Color LaserJet Enterprise MFP 680x X677xx Tray 2 Roller  U60YTE HP Maintenance Kit Replacement Service for Color LaserJet Enterprise MFP 680x X677xx ADF Flow Roller  U60VYE HP Maintenance Kit Replacement Service for Color LaserJet Enterprise MFP 680x X677xx ADF Flow Roller  U45W4E HP Maintenance Kit Replacement Service for Color LaserJet Enterprise MFP X677xx Fuser 110 Enhanced  U45W5E HP Maintenance Kit Replacement Service for Color LaserJet Enterprise MFP X677xx Fuser 220 Enhanced  U45W6E HP Maintenance Kit Replacement Service for Color LaserJet Enterprise MFP X677xx ITB  U49RFE HP Maintenance Kit Replacement Service for Color LaserJet Enterprise MFP X677xx Transfer Roller</p>

## Technical specifications

<b>Model</b>	HP Color LaserJet Enterprise Flow MFP X677zs Printer
<b>Product number</b>	6QQ02A
<b>Functions</b>	Print, copy, scan, fax (optional)
<b>Control panel</b>	10.1 in (25.6 cm) Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle) display
<b>Print</b>	
Print technology	Laser
Print speed <sup>6</sup>	<b>Black (A4, normal):</b> Up to 52 ppm <b>Colour (A4, normal):</b> Up to 52 ppm ; <b>Black (A4, duplex):</b> Up to 52 ipm <b>Colour (A4, duplex):</b> Up to 52 ipm
First page out <sup>7</sup>	<b>Black (A4, ready):</b> As fast as 6.6 sec <b>Colour (A4, ready):</b> As fast as 7.4 sec ; <b>Black (A4, sleep):</b> As fast as 9.8 sec <b>Colour (A4, sleep):</b> As fast as 10.2 sec
Print resolution	<b>Black (best):</b> Up to 1200 x 1200 dpi <b>Colour (best):</b> Up to 1200 x 1200 dpi ; <b>Technology:</b> HP ImageREt 4800, Fine Lines (1200x1200 dpi), Quickview (300x300 dpi)
Monthly duty cycle	Up to 180,000 pages A4; <b>Recommended monthly page volume:</b> 4000 to 30,000
Printer smart software features	Apple AirPrint™, Mopria-certified, Open Extensibility Platform, FutureSmart Firmware, Instant-on Technology, HP Auto-On/Auto-Off technology, Easy Access USB, Two-Sided Printing, Hardware Integration Pocket, Intuitive 10.1 in (25.6 cm) touchscreen control panel, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs, print preview
Standard print languages	HP PCL 6, HP PCL 5, HP PostScript level 3 emulation, native PDF printing (v 1.7), Apple AirPrint™
Fonts and typefaces	105 internal TrueType fonts scalable in HP PCL, 92 internal scalable fonts in HP Postscript level 3 emulation (Euro symbol built-in); 1 internal Unicode Fonts (Andale Mono 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="https://www.hp.com/go/laserjetfonts">https://www.hp.com/go/laserjetfonts</a>
Print area	<b>Print margins:</b> Top: 4.3 mm, Bottom: 4.3 mm, Left: 4.3 mm, Right: 4.3 mm; Maximum print area : 207.4 x 1191.4 mm
Duplex printing	Automatic
<b>Copy</b>	
Copy speed	<b>Black (A4):</b> Up to 52 cpm; <b>Colour (A4):</b> Up to 52 cpm
Copier specifications	Book Copy; Booklet; Build Job; Collation; Color; Content orientation; Copy preview; Darkness control; Default Original Size; Edge Erase; Edge-to-Edge; ID Copy; Image adjustment; Job build; N or Z-ordering; Number of Copies; N-up; Original Size; Original Type; Paper Size; Paper Source; Paper type; Photo; Save Current Settings; Staple; Text; Text/Photo; Tray Selection; Two-sided copy; Watermark; reduce/enlarge; Scan mode (book, 2-sided ID); Stamps; Image overlay; Image shift; Image preview; Paper selection; Scan to job storage; Automatically straighten; Automatically detect color/monochrome; Auto tone; Multi-feed detection; Document editing; Auto paper color removal; <b>Maximum number of copies:</b> Up to 9999 copies; <b>Reduce/Enlarge:</b> 25 to 400%
<b>Scan</b>	
Scan speed <sup>10</sup>	<b>Normal (A4):</b> Up to 95 ppm/190 ipm (b&w), up to 95 ppm/190 ipm (color) ; <b>Duplex (A4):</b> Up to 190 ipm (b&w), up to 190 ipm (color)
Scan file format <sup>11</sup>	PDF; Hi-Compression PDF; PDF/A; JPEG; TIFF; MTIFF; XPS
Scanner specifications	<b>Scanner type:</b> Flatbed, ADF; <b>Scan technology:</b> Charge Coupled Device (CCD) Flatbed; Contact Image Sensor (CIS) ADF; <b>Scan input modes:</b> Front panel applications: Copy; Fax; Scan to Email; Scan to Network Folder; Scan to USB; Scan to Job Storage; Open Extensibility Platform (OXP), HP Workpath applications; <b>Twain version:</b> Version 2.4; <b>Duplex ADF scanning:</b> Yes; <b>Optical scan resolution:</b> Up to 600 dpi
Scanner advanced features	Optimize text/picture; Image adjustments; Job build; Output quality setting; Selectable scan resolution 75 to 600 dpi; Auto detect color; Edge Erase; Job notification; Blank page suppression; HP Quick Sets; HP EveryPage; Auto orientation; Embedded Optical Character Recognition (OCR), Auto crop to page; Auto-tone; Onscreen editing with highlighting, redaction and signature capabilities
Scannable area	<b>Maximum media size (flatbed):</b> 216 x 356 mm ; <b>Minimum media size (ADF):</b> 68 x 127 mm <b>Maximum media size (ADF):</b> 216 x 864 mm
Bit depth/ Grey scale levels	24-bit / 256
Digital sending	Standard: Scan to Email; scan to network folder; scan to USB drive; scan to SharePoint; scan to FTP; scan to sFTP; scan to LAN fax; scan to Internet Fax; local address book; SMTP over SSL; automatically detect color/monochrome; high compression PDF; image adjustments (darkness, contrast, background cleanup, sharpness); optimize text/picture (text, mixed, printed picture, photograph); content orientation; scan mode (book, 2-sided ID); erase edges; auto page crop; job build; image preview; blank page suppression; automatically straighten; embedded OCR; optimize text/picture (auto); scan to multi-destination; automatic tone; auto orientation; multi-feed detection; reverse and retry; document editing; auto paper color removal; job separation (blank page, barcode); watermark; stamps
<b>Fax</b>	
Fax <sup>4</sup>	Optional, 33.6 kbps (with optional analog fax accessory)
Fax specifications	<b>Fax memory:</b> Up to 1000 pages; <b>Fax resolution:</b> Standard: 200 x 100 dpi; Fine: Up to 203 x 196 dpi; Superfine: Up to 300 x 300 dpi; <b>Quick dialing:</b> Up to 1000 numbers
Fax smart software features	Stored faxes; Fax archiving; Fax forwarding; Scale to fit; Fax address book; LAN/Internet fax; Fax number confirmation; Holiday fax schedule
Processor speed	1.6 GHz
<b>Connectivity</b>	
Standard	1 SuperSpeed USB 3.0 (device); 1 SuperSpeed USB 3.0 (host); 1 Hi-Speed USB 2.0 (host); 1 Gigabit Ethernet 10/100/1000T network; 1 Hardware Integration Pocket 2nd generation (HIP2)
Optional	HP Jetdirect 3100w BLE/NFC/Wireless Accessory 3JN69A; HP Jetdirect LAN Accessory 8FP31A
Mobile printing capability	Apple AirPrint™; Mopria™ Certified; NFC Touch-to-print (optional)
Supported network protocols	Via built-in networking solution: TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode, LPD (raw queue support only), Web Services Printing, IPP 2.0, Apple AirPrint™, 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
Network capabilities	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).
Hard disk	Standard, minimum 500 GB HDD; Optional, 256 GB SSD (via CTO)
Memory	<b>Standard:</b> 6 GB ; <b>Maximum:</b> 6 GB
<b>Media handling</b>	
Number of paper trays	<b>Standard:</b> 4 ; <b>Maximum:</b> Up to 4
Media types	Paper (plain, light, intermediate, light bond, bond, recycled, mid-weight, heavy, mid-weight glossy, heavy glossy, extra heavy, extra heavy glossy, cardstock, card glossy), color transparency, labels, letterhead, envelope, preprinted, prepunched, colored, rough, opaque film, user-defined
Media size	<b>Custom (metric):</b> Tray 1: 64 x 127 to 216 x 1200 mm; Tray 2, Tray 3, Tray 4: 101 x 148 to 216 x 356 mm <b>Supported (metric):</b> Tray 1: A4, A5, A6, RA4, B5, B6, 16k, 10 x 15 cm, Oficio, postcards (JIS single and double) envelopes (DL, C5, B5, C6); Tray 2, Tray 3, Tray 4: A4, A5, A6, RA4, B5, B6, 10 x 15 cm, Oficio, 16k, Dpostcard (JIS) <b>ADF:</b> Letter; legal; oficio; executive; statement; 16k; A4; RA4; A5; A6; B5; B6 (JIS); Postcard (JIS); DPostcard (JIS); 4 x 6 in; 5 x 7 in; 5 x 8 in; 68 x 147 mm to 215.9 x 863.6 mm; 2.68 x 5.79 in to 8.46 x 34 in
Media handling	<b>Tray 1:</b> Paper: 100 sheets of 75 g/m <sup>2</sup> media; Envelopes: 10 <b>Tray 2:</b> Paper: 550 sheets <b>Tray 3:</b> Paper: 550 sheets <b>Maximum:</b> Up to 1750 sheets <b>ADF:</b> Standard, 150 sheets
Media weight	Tray 1: 60 to 220 g/m <sup>2</sup> (plain), 120 to 220 g/m <sup>2</sup> (glossy); Tray 2: 60 to 220 g/m <sup>2</sup> (plain), 120 to 220 g/m <sup>2</sup> (glossy); optional 550-sheet input trays: 60 to 220 g/m <sup>2</sup> (plain), 120 to 220 g/m <sup>2</sup> (glossy); optional 2,100-sheet high-capacity input: 60 to 220 g/m <sup>2</sup> (plain)
Input capacity	<b>Standard input:</b> 3x 550-sheet input tray, 100-sheet multi-purpose tray <b>Standard output:</b> 500-sheet output tray, 500-sheet output stapler stacker, two-sided printing <b>Optional input:</b> optional 550-sheet input trays (up to 2); optional 2,100-sheet high capacity input
Output capacity	<b>Standard:</b> Up to 1000 sheets <b>Maximum:</b> Up to 1000 sheets

## Technical specifications

Model	HP Color LaserJet Enterprise Flow MFP X677zs Printer
Product number	6QQ02A
Compatible operating systems	Windows 11; Windows 10; Windows Client OS; Android; iOS; Mobile OS; macOS 10.15 Catalina; macOS 11 Big Sur; macOS 12 Monterey; Linux; Chrome OS
Compatible network operating systems	Windows Server; Citrix; UNIX; Novell; SAP
Minimum system requirements	<b>Windows:</b> 2 GB available hard disk space; Internet connection; or USB port; Internet browser. For additional OS hardware requirements see microsoft.com; <b>Mac:</b> 2 GB available hard drive space; Internet connection; or USB port; Internet browser. For additional OS hardware requirements see apple.com;
Software included	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> ;
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; Hardware-based Memory Shield™ with Control Flow Integrity (CFI) 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 Device Security Syslog Messages processed and accessible in Arcsight and Splunk SIEMs
Printer management	HP Web JetAdmin; Embedded Web Server; HP Security Manager; HP Insights; HP Advance; HP Command Center; HP Smart Device Services (SDS)
<b>Dimensions and weight</b>	
Printer dimensions (W x D x H) <sup>12</sup>	<b>Minimum</b> 520 x 528 x 1274 mm; <b>Maximum:</b> 870 x 823 x 1519 mm
Package dimensions (W x D x H)	760 x 790 x 1474 mm
Printer weight	~84.70 kg
Package weight	~95.60 kg
Operating environment	<b>Temperature:</b> 10 to 32.5°C <b>Humidity:</b> 30 to 70% RH
Storage conditions	<b>Temperature:</b> -20 to 40°C
Acoustics	<b>Acoustic power emissions:</b> 6.6 B(A) <b>Acoustic pressure emissions:</b> 53 dB(A)
Power	<b>Requirements:</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; <b>Consumption:</b> 816 watts (Printing/Copying), 63.4 watts (Ready), 1.1 watts (Sleep), 0.1 watts (Auto Off/Manual On), 0.1 watts (Manual Off); <b>Typical Electricity Consumption (TEC)<sup>9</sup>:</b> 0.849 kWh/week (Energy Star 3.0); 0.810 kWh/week (Blue Angel); <b>Power supply type:</b> Built in 110V or 220 V Power Supply (not dual voltage, power supply varies by part number with option code identifier)
Energy savings feature technology	HP Auto-On/Auto-Off Technology; Instant-on Technology; Instant-on Copy
Certifications	UL/cUL (US/Canada); RCM (Australia); TUV and GS Mark (Germany); Department of Industrial Standards of Cambodia; Bureau of Standards, Metrology and Inspection Ministry of Economic Affairs - BSMI (Taiwan); Certificate of China Compulsory Product Certification - CCC (China); Bureau of Indian Standards - BIS Registration (India); PSB (Singapore); Eastern European country approvals; CE Marking; Other Safety & EMC Certification approvals as required by individual countries. <b>Electromagnetic emission standard:</b> CISPR 22:2008 (International) Class A, CISPR 32:2015 (International) Class A / EN 55032:2015 Class A + A1:2020, CISPR 35:2016 (International) / EN 55035:2017 + A1:2020, EN IEC 61000-3-2:2019, EN 61000-3-3:2013+A1:2019 + A2:2021, FCC 47 CFR Part 15 Class A, ICES-003, Issue 7 Class A. Other EMC approvals as required by individual countries. CEC; IT ECO Declaration; Blue Angel; SEPA; EPEAT® Gold registered; KOECO <b>Blue Angel compliant<sup>8</sup></b> Yes, Blue Angel DE-UZ 219—only ensured when using Original HP supplies
Sustainable impact specifications	5% post-consumer recycled plastic; ENERGY STAR® certified; EPEAT® registered
Country of origin	Made in China
What's in the box <sup>1</sup>	6QQ02A HP Color LaserJet Multifunction Printer; HP Black Managed Original LaserJet Toner Cartridge (~9,000 yield), HP Cyan, Magenta and Yellow Managed Original LaserJet Toner Cartridges (~5,000 yield each) (toner cartridges installed); HP Black, Cyan, Magenta and Yellow Managed Original LaserJet Imaging Drums (~150,000 pages); Documentation (Hardware Install Guide); Power cord; Tray Lock Kit (Paper-size cassette locks, paper tray interface screws, P-cartridge door access control screws)
Warranty	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">http://hp.com/support</a> to learn about HP award winning service and support options in your region.

### Footnotes

<sup>1</sup> Not all MFPs may be compatible with Workpath apps. To enable HP Workpath, some devices may require optional accessory or firmware to be upgraded. Not all apps may be available in all locations. Subscription may be required. Personalized content and integration functions are applicable to supported HP Workpath apps only. <sup>2</sup> Targeted fusing technology comes standard on the 6000/X600 series bundles and is offered as an optional service part on the 5000/X500 series. <sup>3</sup> Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software. Measured using standards found at: [http://standards.iso.org/ittf/PubliclyAvailableStandards/SC28\\_Test\\_Pages/](http://standards.iso.org/ittf/PubliclyAvailableStandards/SC28_Test_Pages/) <sup>4</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>5</sup> Reverse and retry technology is only available on Flow-based models. <sup>6</sup> Availability of Workflow accelerator card is expected Spring of 2023. <sup>7</sup> HP's most advanced embedded security features are available on HP Managed and Enterprise devices with HP FutureSmart Firmware 4.5 or above. Claim based on HP review of 2022 published features of competitive in-class printers. Only HP offers a combination of security features to automatically detect, stop, and recover from attacks with a self-healing reboot, in alignment with NIST SP 800-193 guidelines for device cyber resiliency. For a list of compatible products, visit: [hp.com/go/PrintersThatProtect](http://hp.com/go/PrintersThatProtect). For more information, visit: <http://www.hp.com/go/printersecurityclaims>. <sup>8</sup> Third-party certification based on Common Criteria Information Technology Security Evaluation ISO/IEC 15408 Standard requirements as of May 2019-2024. Certification applicable to HP Managed and Enterprise devices running HP FutureSmart Firmware version 4.5.1 and later. For more information: <https://www.commoncriteriaportal.org/files/epfiles/Certification%20Report%20-%20HP%20Intrusion%20Detection.pdf>. <sup>9</sup> This product comes with Atmosphere Blue (standard) panels. Panels in other colors (Constellation Yellow, Comet Red, Aurora Purple, Lunar Grey, Cosmic Green) are only available transactionally via HP Configure to Order, or contractually via Managed Print Services. Models offered in China have Lunar Grey (standard) instead of Atmosphere Blue. Please contact your HP or partner representative to learn more about customizable color panels. <sup>10</sup> Contact your HP or your Partner Representative to learn more about Custom Color Manager.

### Technical specifications disclaimers

<sup>1</sup> For yield information on the cartridge(s) included with your printer, see <https://www.hp.com/go/toneryield>. Yield values measured in accordance with ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors. <sup>2</sup> Declared yields based on ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see <https://www.hp.com/go/toneryield> <sup>3</sup> EPEAT® registered where applicable. EPEAT registration varies by country. See <https://www.epeat.net> for registration status by country. <sup>4</sup> Based on standard ITU-T test image #1 at standard resolution. More complicated pages or higher resolution will take longer and use more memory. <sup>5</sup> Measured using ISO/IEC 24734 Feature Performance Test, excludes first set of test documents. For more information see <https://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration, software application, driver, and document complexity. <sup>6</sup> Measured using ISO/IEC 24734, excludes first set of test documents. For more information see <https://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration, software application, driver, and document complexity. <sup>7</sup> Measured using ISO/IEC 17629. For more information see <https://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration, software application, driver, and document complexity. <sup>8</sup> Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty. Energy Star value typically based on measurement of 115V device and 230V for Blue Angel. <sup>9</sup> Typical Electricity Consumption (TEC) rating represents the typical electricity consumed by a product during 1 week, measured in kilowatt-hours (kWh). <sup>10</sup> Scan speeds measured from ADF. Actual processing speeds may vary depending on scan resolution, network conditions, computer performance, and application software. <sup>11</sup> HP recommends that the number of scanned pages per month be within the stated range for optimum device performance <sup>12</sup> Maximum dimensions means doors, paper trays, and ADF (if applicable) are fully open.

