

# HP Color LaserJet Enterprise M653 series



## The pinnacle of performance and security.

This HP Colour LaserJet Printer with JetIntelligence combines exceptional performance and energy efficiency with professional-quality documents right when you need them – all while protecting your network with the industry's deepest security.<sup>1</sup>



HP Color LaserJet Enterprise M653dn



HP Color LaserJet Enterprise M653x



Low energy



2-sided printing



Auto on/off

### The world's most secure printing<sup>1</sup>

- With HP Sure Start, each printer regularly checks its operating code and repairs itself from attempted hacks.
- Whitelisting checks firmware during startup to help ensure it's authentic, good code – digitally signed by HP.
- Run-time intrusion detection continually monitors activity to detect and stop attacks, then automatically reboots.
- Centralise control of your printing environment with HP Web Jetadmin – and help build business efficiency.<sup>2</sup>

### High speed performance meets energy efficiency

- Speed through tasks and save paper. Print two-sided documents at up to 56 images per minute, with 100% duplex efficiency.<sup>3</sup>
- This printer wakes up fast and prints your first page faster – in as quickly as 7.7 seconds.<sup>4</sup>
- This printer uses exceptionally low amounts of energy thanks to its innovative design and toner technology.<sup>5</sup>
- Paper handling options include a wheeled stand and 550-sheet input feeder for paper sizes 10.16 x 15.24 cm (4 x 6") to legal.

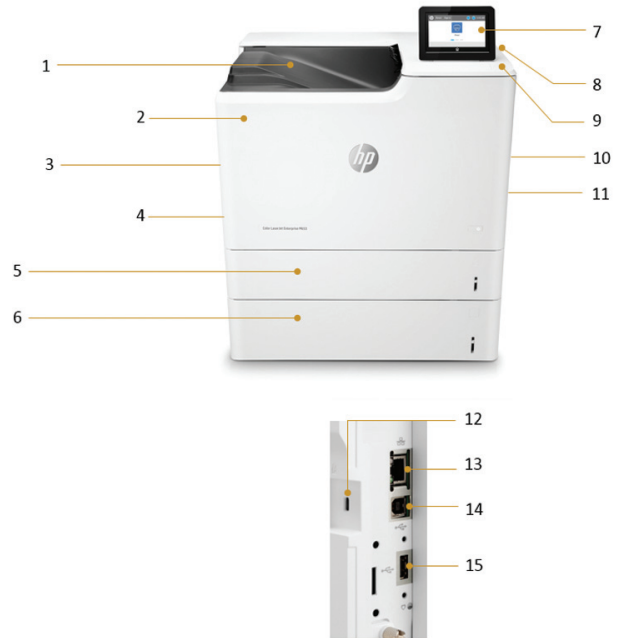
### More Pages, Performance, and Protection<sup>6</sup>

- ColorSphere3 toner formulation, combined with an automatic media sensor, help provide leading print quality.
- Original HP Toner Cartridges with JetIntelligence supply 46% more pages per colour cartridge vs predecessor.<sup>6</sup>
- Help retain the Original HP quality you paid for with anti-fraud and cartridge authentication technology.
- Spend less time replacing toner, and more on business. Choose high-yield toner cartridges.<sup>7</sup>

## Product walkaround

### HP Color LaserJet Enterprise M653x shown

1. 500-sheet output bin
2. Front door access to toner cartridges
3. Wi-Fi Direct printing/Bluetooth Low Energy
4. Built-in automatic two-sided printing
5. 550-sheet tray 2
6. 550-sheet tray 3
7. 10.9 cm (4.3-inch) icon-based colour touchscreen
8. Hardware Integration Pocket
9. Easy-access USB port
10. 100-sheet multipurpose tray 1
11. Lower right door (access to print path)
12. Slot for cable-type security lock
13. Built-in Gigabit Ethernet
14. Hi-Speed USB 2.0 printing port
15. USB port for connecting external USB devices



## Series at a glance



Model	HP Color LaserJet Enterprise M653dn	HP Color LaserJet Enterprise M653x
Product number	J8A04A	J8A05A
Print speeds (A4)	Up to 56 ppm	Up to 56 ppm
Control panel	10.9 cm icon-based colour touchscreen	10.9 cm icon-based colour touchscreen
Automatic two-sided printing	Yes	Yes
100-sheet tray 1, 550-sheet tray 2	Yes	Yes
550-sheet tray*	Optional (up to two)	Yes (plus up to one optional)
550-sheet tray with stand and cabinet*	Optional	Not available
3 x 550-sheet paper feeder and stand*	Optional	Not available
1 x 550-sheet/2,000-sheet HCI feeder and stand*	Optional	Not available
Direct mobile printing**	Optional wireless direct/NFC	Embedded Wi-Fi Direct®/Bluetooth® Low Energy
Wireless networking***	Optional	Optional

\*All models come with 100-sheet multipurpose tray 1 and 550-sheet tray 2. In addition, M653dn model can add up to two additional 550-sheet paper feeders; or, it can add one of the other accessories (550-sheet paper feeder with stand and cabinet, 3x550-sheet paper feeder and stand, or 1x550-sheet/2,000-sheet HCI feeder and stand).The M653x model comes standard with one additional 550-sheet paper feeder (tray 3) and it can add one additional 550-sheet paper feeder, it does not support any other paper-handling accessories.

\*\* Wi-Fi Direct printing is embedded in the M653x model. The M653dn model can add wireless direct/NFC by purchasing the optional HP Jetdirect 3000w NFC/Wireless Direct Accessory. For details, see [hp.com/go/mobileprinting](http://hp.com/go/mobileprinting). Wi-Fi Direct is a registered trademark of Wi-Fi Alliance®. For more information regarding Near Field Communication (NFC), see [hp.com/go/businessmobileprinting](http://hp.com/go/businessmobileprinting).

\*\*\*The models can add wireless networking with the purchase of the optional HP Jetdirect 2900nw Print Server. Wireless performance is dependent on physical environment and distance from access point, and may be limited during active VPN connections.

## Accessories, Supplies and Support

<b>Supplies</b>	<b>CF450A</b> HP 655A Black Original LaserJet Toner Cartridge (12,500 pages)	
	<b>CF460X</b> HP 656X High Yield Black Original LaserJet Toner Cartridge (27,000 pages)	
	<b>CF451A</b> HP 655A Cyan Original LaserJet Toner Cartridge (10,500 pages)	
	<b>CF461X</b> HP 656X High Yield Cyan Original LaserJet Toner Cartridge (22,000 pages)	
	<b>CF452A</b> HP 655A Yellow Original LaserJet Toner Cartridge (10,500 pages)	
	<b>CF462X</b> HP 656X High Yield Yellow Original LaserJet Toner Cartridge (22,000 pages)	
	<b>CF453A</b> HP 655A Magenta Original LaserJet Toner Cartridge (10,500 pages)	
	<b>CF463X</b> HP 656X High Yield Magenta Original LaserJet Toner Cartridge (22,000 pages)	
	<b>P1B92A</b> P LaserJet 220V Maintenance Kit (Up to 150,000 pages)	
	<b>P1B93A</b> P LaserJet Image Transfer Belt Kit (Up to 150,000 pages)	
<b>Accessories</b>	<b>P1B94A</b> P LaserJet Toner Collection Unit (Up to 100,000 pages)	
	<b>P1B09A</b> HP Color LaserJet 550-sheet Media Tray	
	<b>P1B10A</b> HP Color LaserJet 550-sheet Paper Tray with Stand	
	<b>P1B11A</b> HP Color LaserJet 3x550-sheet Feeder and Stand	
	<b>P1B12A</b> HP Color LaserJet 1 x 550/2000-sheet HCl Feeder and Stand	
	<b>F5562A</b> HP Trusted Platform Module Accessory	
	<b>B5L29A</b> HP High-Performance Secure Hard Disk	
	<b>Connectivity</b>	<b>J8030A</b> HP Jetdirect 3000w NFC/Wireless Accessory
		<b>J8031A</b> HP Jetdirect 2900nw Print Server
	<b>Service and support</b>	<b>U9N26E</b> HP 3 year Next Business Day with Defective Media Retention for Colour LaserJet Enterprise M65x HW Support
<b>U9N27E</b> HP 4 year Next Business Day with Defective Media Retention for Colour LaserJet Enterprise M65x HW Support		
<b>U9N28E</b> HP 5 year Next Business Day with Defective Media Retention for Colour LaserJet Enterprise M65x HW Support		
<b>U9PC0PE</b> HP 1 year Post Warranty Next Business Day with Defective Media Retention for Colour LaserJet Enterprise M65x HW Support		
<b>U9PC1PE</b> HP 2 year Post Warranty Next Business Day with Defective Media Retention for Colour LaserJet Enterprise M65x HW Support		

## Technical specifications

Model	HP Color LaserJet Enterprise M653dn	HP Color LaserJet Enterprise M653x
<b>Product number</b>	J8A04A	J8A05A
<b>Functions</b>	Print	
<b>Control panel</b>	10.92 cm (4.3 in) Colour Graphics Display (CGD) with touchscreen; Rotating (adjustable angle) display; Home button	
<b>Print</b>		
Print technology	Laser	
Print speed <sup>1</sup>	<b>Black (A4, normal):</b> Up to 56 ppm; <b>Colour (A4, normal):</b> Up to 56 ppm; <b>Black (A4, duplex):</b> Up to 56 ipm	
First page out <sup>2</sup>	<b>Black (A4, ready):</b> As fast as 5.8 sec; <b>Colour (A4, ready):</b> As fast as 5.8 sec; <b>Black (A4, sleep):</b> As fast as 7.8 sec; <b>Colour (A4, sleep):</b> As fast as 7.8 sec	
Print resolution	<b>Black (best):</b> HP ImageRet 3600; <b>Colour (best):</b> HP ImageRet 3600; <b>Technology:</b> HP ImageRet 3600; 600 x 600 dpi; HP ProRes 1200 (1200 x 1200 dpi); Pantone® Calibrated	
Monthly duty cycle	Up to 120,000 pages (A4); <b>Recommended monthly page volume:</b> 2000 to 17,000	
Printer smart software features	Print preview, duplex printing, print multiple pages per sheet (2, 4, 6, 9, 16), collation, watermarks, store print jobs, easy-access USB	
Standard print languages	HP PCL 6; HP PCL 5c; HP postscript level 3 emulation; Native PDF printing (v 1.7); URF (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="http://www.hp.com/go/laserjetfonts">http://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	
Duplex printing	Automatic (standard)	Automatic (standard)
<b>Processor speed</b>	1.2 GHz	
<b>Connectivity</b>		
Standard	1 Hi-Speed Device USB 2.0; 2 Hi-Speed USB 2.0 Host; 1 Gigabit/Fast Ethernet 10/100/1000 Base-TX network; Hardware Integration Pocket	
Mobile printing capability <sup>3</sup>	HP ePrint; Apple AirPrint™; Mopria-certified	HP ePrint; Wireless direct printing; Apple AirPrint™; Mopria-certified
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™, HP ePrint, FTP Print, Google Cloud Print; Discovery: SLP, Bonjour, Web Services Discovery; IP Config: IPv4 (BootP, DHCP, AutoIP, Manual, TFTP Config, ARP-Ping), IPv6 (Stateless Link-Local and via Router, Statefull via DHCPv6); Management: SNMPv2/v3, HTTP/HTTPS, Telnet, TFTP Config, FTP FW Download, Syslog; Security: SNMPv3, SSL Cert Management, Firewall, ACL, 802.1x	
<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>Memory</b>	<b>Standard:</b> 1 GB; <b>Maximum :</b> 2 GB	

Model	HP Color LaserJet Enterprise M653dn	HP Color LaserJet Enterprise M653x
Product number	J8A04A	J8A05A
<b>Media handling</b>		
Number of paper trays	<b>Standard:</b> 2; <b>Maximum:</b> Up to 5	<b>Standard:</b> 3; <b>Maximum:</b> Up to 3
Media types	Paper (plain, light, bond, recycled, mid-weight, heavy, mid-weight glossy, heavy glossy, extra heavy, extra heavy glossy, cardstock, card glossy), colour transparency, labels, letterhead, envelope, preprinted, prepunched, coloured, rough, opaque film, user-defined	
Media size	<b>Custom (metric):</b> Tray 1: 76 x 127 to 216 x 356 mm; Tray 2: 101.6 x 148 to 216 x 356 mm; Optional 550-sheet trays: 101.6 x 148 to 216 x 356 mm; Optional 2,000-sheet high-capacity tray: custom sizes not supported in this tray <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: A4, A5, A6, RA4, B5, B6, 10 x 15 cm, Oficio, 16k, Dpostcard; Optional 550-sheet trays 3, 4, 5: A4, A5, A6, RA4, B5, B6, 10 x 15 cm, Oficio, 16k, Dpostcard; Optional 2,000-sheet high-capacity Tray 4: A4	<b>Custom (metric):</b> Tray 1: 76 x 127 to 216 x 356 mm; Trays 2, 3: 101.6 x 148 to 216 x 356 mm; Optional Tray 4: 101.6 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, 3: A4, A5, A6, RA4, B5, B6, 10 x 15 cm, Oficio, 16k, Dpostcard; Optional Tray 4: A4, A5, A6, RA4, B5, B6, 10 x 15 cm, Oficio, 16k, Dpostcard
Media handling	<b>Standard input:</b> 100-sheet multi-purpose tray, 550-sheet input tray 2 <b>Standard output:</b> 500-sheet output bin <b>Optional input:</b> Optional 1 x 550-sheet paper feeder, optional 1 x 550-sheet Paper Feeder with Stand and Cabinet, optional 3 x 550-sheet Paper Feeder with Stand, optional 1 x 550/2,000-sheet HCl Feeder and Stand	<b>Standard input:</b> 100-sheet multi-purpose tray, 550-sheet input tray 2, 3 <b>Standard output:</b> 500-sheet output bin <b>Optional input:</b> Optional 1 x 550-sheet feeder
Media weight	Tray 1: 60-220 g/m <sup>2</sup> (plain), 120 to 220 g/m <sup>2</sup> (glossy); Tray 2 and automatic two-sided printing unit: 60 to 163 g/m <sup>2</sup> (plain), 120 to 220 g/m <sup>2</sup> (glossy); Optional Trays 3, 4, 5 1 x 550-sheet feeders: 60 to 163 g/m <sup>2</sup> (plain), 120 to 220 g/m <sup>2</sup> (glossy); Optional Tray 4 2,000 high capacity input: 60-163 g/m <sup>2</sup> (plain)	Tray 1: 60-220 g/m <sup>2</sup> (plain), 120 to 220 g/m <sup>2</sup> (glossy); Trays 2, 3 and automatic two-sided printing unit: 60 to 163 g/m <sup>2</sup> (plain), 120 to 220 g/m <sup>2</sup> (glossy); Optional Tray 4: 60 to 163 g/m <sup>2</sup> (plain), 120 to 220 g/m <sup>2</sup> (glossy)
Input capacity	<b>Tray 1:</b> Paper: 100 sheets of 75 gsm media; Envelopes: 10 <b>Tray 2:</b> Plain media (75 g/m <sup>2</sup> ) sheets: 550 (55 mm stack height); Glossy media sheets (120 g/m <sup>2</sup> ): 250 (30 mm stack height) <b>Maximum:</b> Up to 3,200 sheets	
Output capacity	<b>Standard:</b> Up to 500 sheets Envelopes: Up to 85 envelopes Transparencies: Up to 200 sheets <b>Maximum:</b> Up to 500 sheets	
<b>Compatible operating systems</b>	Android, Linux Boss (5.0), Linux Debian (7.0, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6), Linux Fedora (22, 23, 24), Linux Mint (17, 17.1, 17.2, 17.3, 18), Linux Red Hat Enterprise (6.0, 7.0), Linux SUSE (13.2, 42.1), Linux Ubuntu (12.04, 14.04, 15.10, 16.04, 16.10), OS macOS 10.12 Sierra, OS X 10.11 El Capitan, OS X 10.10 Yosemite, UNIX, Windows 10 all 32/64-bit editions (excluding RT OS for Tablets), Windows 7 all 32/64-bit editions, Windows 8/8.1 all 32/64-bit editions (excluding RT OS for Tablets), Windows Vista all 32-bit editions (Home Basic, Premium, Professional, etc.), Windows XP SP3 32-bit editions (XP Home, XP Pro, etc.)	
<b>Compatible network operating systems</b>	Citrix MetaFrame Presentation Server 3.0, Citrix MetaFrame XP Presentation Server (Feature Release 1, 2, and 3), Citrix on Windows Server 2003/2003 R2, Citrix on Windows Server 2008/2008 R2/2008 R2 SP1, Citrix on Windows Server 2012/2012 R2, Citrix Presentation Server 4.0/4.5, Citrix XenApp 5.0 (Plus Feature Pack 2 & 3) for Windows Server 2008 Terminal Services 32/64-bit, Citrix XenApp 6.0/6.5 (for Windows Server 2008 R2 Terminal Services, 32/64-bit), Citrix XenApp 6.0/6.5/7.5 (for Windows Server 2008 R2 SP1 Terminal Services, 32/64-bit), Citrix XenApp 7.5 (for Windows Server 2012 and 2012 R2 Terminal Services, 64-bit), Citrix XenDesktop 5.6 (for Windows Server 2008 R2 Terminal Services, 32/64-bit), Citrix XenDesktop 5.6/7.0/7.5 (for Windows Server 2008 R2 SP1 Terminal Services, 32/64-bit), Citrix XenDesktop 7.0/7.5 (for Windows Server 2012 and 2012 R2 Terminal Services, 64-bit), Novell NetWare 6.5/SP8 Novell Clients <a href="http://www.novell.com/iprint">http://www.novell.com/iprint</a> , Novell iPrint Appliance v1.0, Novell Open Enterprise Server 11/SP1, Novell Open Enterprise Server 2 for Linux, Novell Servers <a href="http://www.novell.com/iprint">http://www.novell.com/iprint</a> , Windows Server 2003/2003 R2 32/64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2003/2003 R2 32-bit (SP1/SP2) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008 32/64-bit (SP2) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008 R2 64-bit (SP1) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 32/64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2012/2012 R2 64-bit Standard/Foundation/Essentials/Datacenter (+ Cluster & Terminal Services)	
<b>Minimum system requirements</b>	<b>Windows:</b> 2 GB available hard disk space; OS hardware requirements see <a href="http://www.microsoft.com">http://www.microsoft.com</a> ; <b>Mac:</b> 1.3 GB available hard drive space; Internet; OS hardware requirements see <a href="http://www.Apple.com">http://www.Apple.com</a> for more info	
<b>Software included</b>	HP Connected, HP Device Experience (DXP), HP PCL 6 (XPS) Printer Driver, HP Software Installer/Uninstaller, Mac OS Welcome Screen (Directs users to <a href="http://www.123.HP.com">http://www.123.HP.com</a> or OS App Source for printer software), online user manuals	
<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>Printer management</b>	HP JetAdvantage Security Manager; HP SNMP Proxy Agent; HP Web JetAdmin Software; HP WS Pro Proxy Agent; Printer Administrator Resource Kit for HP Universal Print Driver	
<b>Dimensions and Weight</b>		
Printer dimensions (W x D x H)	<b>Minimum:</b> 510 x 458 x 510 mm; <b>Maximum:</b> 963 x 770 x 510 mm	<b>Minimum:</b> 510 x 458 x 640 mm; <b>Maximum:</b> 963 x 770 x 640 mm
Package dimensions (W x D x H)	653 x 596 x 578 mm	664 x 600 x 773 mm
Printer weight	31.3 kg	37.5 kg
Package weight	36.0 kg	43.7 kg
<b>Operating environment</b>	<b>Temperature:</b> 15 to 30°C; <b>Humidity:</b> 30 to 70% RH	
<b>Storage</b>	<b>Temperature:</b> -20 to 40°C; <b>Humidity:</b> 10 to 90% RH	

Model	HP Color LaserJet Enterprise M653dn	HP Color LaserJet Enterprise M653x
Product number	J8A04A	J8A05A
Power <sup>4</sup>	<b>Requirements:</b> Input voltage: 220V to 240V nominal, (+/-10%) 50 - 60Hz nominal (+/- 3Hz), 6 A <b>Consumption:</b> 780 watts (printing), 31 watts (ready), 0.7 watts (sleep), 0.7 watts (Auto Off/Manual On), 0.1 (Manual Off); <b>Typical Electricity Consumption (TEC):</b> Energy Star: 2.49 kWh/Week; Blue Angel: 2.27 kWh/Week; <b>Power supply type:</b> Built in 220V Power Supply	
Energy savings feature technology	HP Auto-on/Auto-off Technology; Instant-on Technology	
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">hp.com/support</a> to learn about HP award winning service and support options in your region.	
Certifications	CISPR 22: 2008 (International) - Class A, CISPR 32: 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; Other EMC approvals as required by individual countries ENERGY STAR <sup>®</sup> qualified; EPEAT <sup>®</sup> Gold; EPEAT <sup>®</sup> Silver; CECP; Blue Angel RAL-UZ 205	CISPR 22: 2008 (International) - Class A, CISPR 32: 2012 (International) - Class A, EN 55032: 2012 (EU) - Class A, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 55024: 2010, EN 301 489-1 V1.9.2, EN 301 489-17 V2.2.1, EN 301 489-3 V1.6.1, EMC Directive 2014/30/EU; Other EMC approvals as required by individual countries ENERGY STAR <sup>®</sup> qualified; EPEAT <sup>®</sup> Silver; CECP; Blue Angel RAL-UZ 205
What's in the box <sup>5</sup>	HP Colour LaserJet Enterprise M653dn Printer; HP Black Original LaserJet Toner Cartridge (12,500 yield), HP Cyan, Magenta and Yellow Original LaserJet Toner Cartridges (10,500 yield each) (toner cartridges installed); CD with software drivers and documentation; Documentation (hardware install guide); Power cord	HP Colour LaserJet Enterprise M653x Printer; HP Black Original LaserJet Toner Cartridge (12,500 yield), HP Cyan, Magenta and Yellow Original LaserJet Toner Cartridges (10,500 yield each) (toner cartridges installed); CD with software drivers and documentation; Documentation (hardware install guide); Power cord; 1 x 550-sheet paper feeder

## Footnotes

<sup>1</sup> Based on HP review of 2016 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 [hp.com/go/PrintersThatProtect](http://hp.com/go/PrintersThatProtect). For more information: [hp.com/go/printersecurityclaims](http://hp.com/go/printersecurityclaims).

<sup>2</sup> HP Web Jetadmin is available for download at no additional charge at [hp.com/go/webjetadmin](http://hp.com/go/webjetadmin).

<sup>3</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>4</sup> Measured after 15 min in sleep. Exact speed varies depending on the system configuration, software application, driver, document complexity and time in sleep.

<sup>5</sup> Energy claim based on TEC data reported on [energystar.gov](http://energystar.gov) as of January 2017. Data normalised to determine energy efficiency of in-class laser printers with published speed of 50 to 60 ppm. Subject to device settings. Actual results may vary.

<sup>6</sup> More pages versus predecessor cartridges claim based on page-yield comparison of HP M647A and HP 648A Color Original LaserJet Toner Cartridges with HP 656X High Yield Color Original LaserJet Toner Cartridges. For more information, see [hp.com/go/learnaboutsupplies](http://hp.com/go/learnaboutsupplies)

<sup>7</sup> HP 656X High Yield Original LaserJet Toner Cartridges not included; please purchase separately.

## Technical specifications disclaimers

<sup>1</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>2</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>3</sup> May require a firmware upgrade to be compatible, download at <http://www.hp.com/go/support>

<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.

<sup>5</sup> Cartridges included; yields 10,500 colour (C/M) and 12,500 black pages. Pages based on ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see <http://www.hp.com/go/learnaboutsupplies>. Pages may vary based on customer printing conditions and usage.



<http://www.hp.com/uk>

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