**Print only**

# HP LaserJet Managed E50045dw

## Get a faster startup[1] and help protect against threats with multi-level device security.[7]

Finish tasks faster with a printer that starts right away and helps conserve energy.[1] Multi-level device security helps protect from threats.[7] Original HP Toner cartridges with JetIntelligence and this printer produce more high-quality pages.[2]



### Accelerate your work and use less energy

- Don't wait for documents. Print your first page in as few as 8.5 seconds from energy-efficient sleep mode.
- This printer is in low energy use—thanks to its innovative design and toner technology.[5]
- Speed through jobs on a variety of media. Print two-sided documents almost as quickly as one.
- Now almost 30% smaller—this printer fits in tight places and delivers quiet operation.[3]

### Unparalleled fleet security and management

- Embedded features detect security threats and heal your printer, protecting it from boot up to shutdown.[7]
- Protect sensitive data stored on the printer and in transit, using embedded and optional security features.[7]
- Protect sensitive business data with embedded and optional HP JetAdvantage Security Solutions.[9]
- Centralize control of your print environment with HP Web Jetadmin[8]—and help build business efficiency.

### More. Pages, Performance, and Protection.

- Produce sharp text, bold blacks, and crisp graphics with precision black toner.
- Get more. Original HP Toner with JetIntelligence delivers more pages per cartridge than predecessors.[2]
- Help ensure the Original HP quality you paid for with anti-fraud and cartridge authentication technology.
- Print right away with a preinstalled toner cartridge. Replace it with an optional high-yield cartridge.[6]

### Stay connected with secure mobile printing options

- Enable 128-bit encrypted wireless direct printing from mobile devices—without accessing the network.[11]
- Print with just a touch of your NFC-enabled mobile device to this printer—no network needed.[12]
- Easily access, print, and share resources with Ethernet and optional wireless networking.[10]

# Technical specifications

| Functions | Print |
|---|---|
| **Print** | |
| Duplex print options | Automatic (standard) |
| Print speed[18] | **Black (A4, normal)**: Up to 43 ppm; **Black (letter, normal)**: Up to 45 ppm; **Black (A5, landscape)**: Up to 65 ppm; **Black (A4, duplex)**: Up to 34 ipm; **Black (letter, duplex)**: Up to 36 ipm |
| First page out[19] | **Black (A4, ready)**: As fast as 6.0 sec; As fast as 11.5 sec (100 V); **Black (A4, sleep)**: As fast as 8.1 sec; As fast as 13.7 sec (100 V) |
| Print resolution | **Black (best)**: Up to 1200 x 1200 dpi; **Black (normal)**: Up to 600 x 600 dpi; **Black (fine lines)**: Up to 1200 x 1200 dpi |
| Print technology | Laser |
| Print resolution technology | 300 dpi, 600 dpi, HP FastRes 1200, HP ProRes 1200 |
| Print cartridges number | 2 (black) |
| Standard print languages | HP PCL 6, HP PCL 5 (HP PCL 5 driver available from the Web only), HP postscript level 3 emulation, native PDF printing (v 1.7) |
| Printer management | Printer Management; Printer Administrator Resource Kit (Driver Configuration Utility, Driver Deployment Utility, Managed Printing Administrator); HP Web JetAdmin Software; HP Proxy Agent Software; HP JetAdvantage Security Manager. |
| **Connectivity** | |
| Standard connectivity | Hi-Speed USB 2.0 port; built-in Fast Ethernet 10Base-T/100Base-Tx, Gigabit Ethernet 1000Base-T |
| Mobile printing capability[17] | Apple AirPrint™; HP ePrint; Wireless direct printing; Mopria™ Certified |
| Wireless capability | Yes, Embedded NFC/HP Wireless Direct and built-in WiFi 802.11b/g/n |
| Network Capabilities | Yes, via built-in Gigabit Ethernet |
| **Memory** | **Standard**: 512 MB; **Maximum**: 1.5 GB |
| **Processor speed** | 1.2 GHz |
| **Duty cycle (monthly)[7]** | Up to 150,000 pages; **Recommended monthly page volume[8]**: 2000 to 15,000 |
| **Paper handling** | |
| Input | 100-sheet multipurpose Tray 1, 550-sheet input Tray 2, automatic duplex printing; Up to 3 optional 550-sheet paper feeders |
| Output | 250-sheet output bin |
| Media type | Paper (bond, color, letterhead, plain, preprinted, prepunched, recycled, rough); envelopes; labels; cardstock; transparencies; user-defined |
| Media weight | Tray 1: 60 to 200 g/m²; Tray 2+: 60 to 120 g/m² |
| Media sizes custom | Tray 1: 76 x 127 to 216 x 356 mm; 550-sheet input Tray 2: 105 x 148 to 216 x 356 mm; Optional 550-sheet input Tray 3+: 105 x 148 to 216 x 356 mm |
| **Dimensions (W x D x H)[13]** | 418 x 376 x 326 mm |
| **Weight** | 11.8 kg |
| **What's in the box[20]** | HP LaserJet Managed E50045dw; HP Black LaserJet Toner Cartridge; CD; Warranty Guides; HIGS; Erratas |
| **Warranty features** | NA/EMEA: One-year, next-business-day, onsite warranty. Warranty and support options vary by product, country and local legal requirements. Go to hp.com/support to learn about HP award winning service and support options in your region; AP: One year return to bench |
| **Systems** | |
| Compatible operating systems[11] | Windows OS compatible with In-Box Driver: Windows XP SP3 all 32-bit editions (XP Home, XP Pro, etc), Windows Vista all 32-bit editions (Home Basic, Premium, Professional, etc), Windows 7 all 32- & 64-bit editions, Windows 8/8.1 all 32- & 64-bit editions (excluding RT OS for Tablets), Windows 10 all 32- & 64-bit editions (excluding RT OS for Tablets); Windows OS compatible with Universal Print Driver (From HP.com): Windows XP SP3 32- & 64-bit editions (XP Home, XP Pro, etc), Windows Vista all 32- & 64-bit editions (Home Basic, Premium, Professional, etc), Windows 7 all 32- & 64-bit editions, Windows 8/8.1 all 32- & 64-bit editions (excluding RT OS for Tablets), Windows 10 all 32- & 64-bit editions (excluding RT OS for Tablets); Mac OS (HP Print Drivers available from http://www.hp.com and Apple Store): OS X 10.8 Mountain Lion, OS X 10.9 Mavericks, OS X 10.10 Yosemite; Mobile OS (In-OS drivers): iOS, Android, Windows 8/8.1/10 RT; Linux OS (In-OS HPLIP): SUSE Linux (12.2, 12.3, 13.1), Fedora (17, 18, 19, 20), Linux Mint (13, 14, 15, 16, 17), Boss (3.0, 5.0), Ubuntu (10.04, 11.10, 12.04, 12.10, 13.04, 13.10, 14.04, 14.10), Debian (6.0.x, 7.x); Other OS: UNIX |
| Minimum system requirements | **PC**: Windows XP SP3 all 32-bit editions (XP Home, XP Pro, etc), Windows Vista all 32-bit editions (Home Basic, Premium, Professional, etc), Windows 7 all 32- & 64-bit editions, Windows 8/8.1 all 32- & 64-bit editions (excluding RT OS for Tablets), Windows 10 all 32- & 64-bit editions (excluding RT OS for Tablets); CD-ROM or DVD drive, or Internet connection; Dedicated USB or network connection or Wireless connection; 200 MB available hard disk space; OS compatible hardware (For OS hardware requirements see http://www.microsoft.com) **Mac**: Mac OS X 10.8 Mountain Lion, OS X 10.9 Mavericks, OS X 10.10 Yosemite; Internet; USB; 1 GB available hard disk; OS compatible hardware (For OS hardware requirements see http://www.apple.com) |
| **Fonts and Typefaces** | 105 internal TrueType fonts scalable in HP PCL, 92 internal scalable fonts in HP postscriopt Level 3 emulation (Euro symbol built-in); 1 internal Unicode Fonts (Andale Mono World Type);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 Http://www.hp.com/go/laserjetfonts |
| **Control panel** | 4.3-in (10.92 cm) Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle) |
| **Display** | 4.3-in color touchscreen |
| **Power** | **Power supply type**: Internal (Built-in) power supply; **Power supply required**: Input voltage: 100 to 127 VAC, 60 Hz; Input voltage: 200 to 240 VAC, 50 Hz (Not dual voltage, power supply varies by part number with #option code identifier); **Power consumption[2]**: 741.98 watts (Active Printing), 13.72 watts (Ready), 2.51 watts (Sleep), 0.08 watts (Auto-Off), 0.08 watts (Off); **Typical electricity consumption (TEC) number[3]**: 1.824 kWh/Week (Blue Angel); 1.997 kWh/Week (Energy Star) |
| **Software included** | For Windows OS: HP Software Installer/Uninstaller, HP PCL 6 Printer Driver, HP Device Experience (DXP), HP Update, Product Registration Assist, HP Web Services Assist (HP Connected), Online user manuals; For Mac OS: Welcome Screen (Directs users to http://www.HP.com or OS App Soure for LaserJet Software) |
| **Acoustics** | **Acoustic power emissions[6]**: 6.8 B(A); **Acoustic Power Emissions (ready)[6]**: 4.0 B(A); **Acoustic Pressure Emissions Bystander (active, printing)**: 54 dB(A); **Acoustic Pressure Emissions Bystander (ready)**: 24 dB(A) |
| **Environmental ranges** | **Operating Temperature Range**: 15 to 32.5° C; **Recommended Operating Temperature**: 17.5 to 25° C; **Non-operating Humidity Range**: 10 to 90% RH; **Operating Humidity Range**: 10 to 80% RH; **Recommended Operating Humidity Range**: 30 to 70% RH |
| **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; 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 accessable in Arcsight and Splunk SIEMs |
| **Safety approvals and requirements** | IEC 60950-1:2005 +A1:2009 +A2:2013 (International); EN60950-1:2006 +A11:2009 +A1:2010 +A12:2011 +A2:2013 (EU); EN 60825-1:2007/IEC 60825-1:2007 (Class 1 Laser Product); EN 62479:2010/IEC 62479:2010; Low Voltage Directive 2006/95/EC with CE Mark (Europe); GS Certificate (Germany, Europe); UL/cUL Listed and UC CoC (US/Canada); CAN/CSA C22.2 No. 60950-1-07 2nd Ed. 2011-12; Compliance with Laser safety standards 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser notice No. 50, Dated June 24, 2007; Other safety approvals as required by individual countries. |
| **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 |

# Ordering Information

| Number | Description |
|---|---|
| 3GN19A | HP LaserJet Managed E50045dw |

**Supplies and Maintenance Kits**

| Number | Description |
|---|---|
| W9017MC | HP W9017MC Black Managed LaserJet Toner Cartridge (~22,500 pages) |
| CF287XC | HP CF287XC Black Contractual LaserJet Toner Cartridge (~20,600 pages) |

**Accessories**

| Number | Description |
|---|---|
| B5L28A | HP Internal USB Ports |
| B5L29A | HP High-Performance Secure Hard Disk |
| F2A72A | HP LaserJet 550-sheet Paper Tray |
| F2A73A | HP LaserJet Printer Cabinet |
| F2A87A | HP Internal USB Ports |
| F5S62A | HP Trusted Platform Module Accessory |
| G6W84A | HP 1 GB 90-pin DDR3 DIMM |
| J8030A | HP Jetdirect 3000w NFC/Wireless Accessory |
| J8031A | HP Jetdirect 2900nw Print Server |

**HP Care Packs**

| Number | Description |
|---|---|
| U8TS5E | HP 3 year Next Business Day w/Defective Media Retention Service for LaserJet M506 E50045 Managed |
| U8TS6E | HP 4 year Next Business Day w/Defective Media Retention Service for LaserJet M506 E50045 Managed |
| U8TS7E | HP 5 year Next Business Day w/Defective Media Retention Service for LaserJet M506 E50045 Managed |
| U8TS8E | HP 3 year Parts Exchange Service for LaserJet M506 E50045 Managed (Managed Component Only) |
| U8TS9E | HP 4 year Parts Exchange Service for LaserJet M506 E50045 Managed (Managed Component Only) |
| U8TT0E | HP 5 year Parts Exchange Service for LaserJet M506 E50045 Managed (Managed Component Only) |
| U8TT1PE | HP 1 yr Post Wnty Next Business Day w/Defective Media Retention Svc for LaserJet M506 E50045 Managed |
| U8TT2PE | HP 2 yr Post Wnty Next Business Day w/Defective Media Retention Svc for LaserJet M506 E50045 Managed |
| U8TT3PE | HP 1 yr Post Wnty Parts Exchange Service for LaserJet M506 E50045 Managed (Managed Component Only) |

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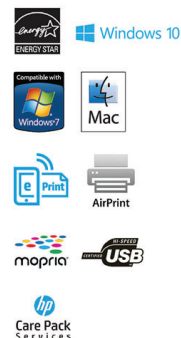| | | |
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**Supported paper**

Contact HP via phone: Asia: 65 6253 8500

**Solutions**

For more solutions information, please visit hp.com/go/gsc

## Footnotes

[1] Based on HP internal testing of top three leading competitors' first page out from sleep mode and duplex print speed completed 8/2015. Subject to device settings. Actual results may vary. For details, see http://www.hp.com/go/Ljclaims

[2] More pages versus predecessor cartridges claim based on page-yield comparison of HP 55X High Yield Black Original LaserJet Toner Cartridges with HP 87X High Yield Black Original LaserJet Toner Cartridges. For more information, see http://www.hp.com/go/learnaboutsupplies

[3] Compared with the HP LaserJet Enterprise P3015.

[4] Purchase of optional paper trays required to reach maximum input capacity.

[5] Based on HP testing using the ENERGY STAR® program's Typical Electricity Consumption (TEC) method or as reported in energystar.gov versus the top three leading competitors as of 8/2015. Actual results may vary. For details see http://www.hp.com/go/Ljclaims

[6] HP 87X High Yield Black Original LaserJet Toner Cartridges not included; please purchase separately.

[7] Some features require additional purchase. A FutureSmart service pack update may be required to activate security features. Learn more at http://www.hp.com/go/printsecurity

[8] HP Web Jetadmin is free and available for download at http://www.hp.com/go/webjetadmin

[9] Some solutions require download or additional purchase. Learn more at http://www.hp.com/go/printingsolutions

[10] Wireless networking requires purchase of the 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.

[11] Wireless direct printing is standard on the HP LaserJet Enterprise M506x only. Requires purchase of optional HP Jetdirect 3000w NFC/Wireless Direct Accessory for the HP LaserJet Enterprise M506n/dn. Mobile device needs to be connected directly to the WiFi network of a wireless direct – capable 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/businessmobileprinting

[12] Touch-to-print capability is standard on the HP LaserJet Enterprise M506x only. Requires purchase of optional HP Jetdirect 3000w NFC/Wireless Direct Accessory for the HP LaserJet Enterprise M506n/dn. Mobile device must support Near Field Communication (NFC) – enabled printing. For more information, see http://www.hp.com/go/businessmobileprinting

[13] An FCC Class A emissions compliant device meets the less stringent (higher) levels of emissions allowed by the FCC for a product operation in a commercial environment. An FCC class A device cannot be marketed for use in a residential environment and an FCC class A device should not be purchased for use in a residential environment due to the increased risk of interference to radio communications.

## Technical specifications disclaimers

[1] AirPrint™ and iOS 4.2 or later devices require an 802.11 wireless network connection to the printer. Wireless performance is dependent upon physical environment and distance from the access point. AirPrint and the AirPrint Logo are trademarks of Apple® Inc. Wireless operations are compatible with 2.4 GHz operations only. App or software and HP ePrint account registration may also be required. Some features require purchase of an optional accessory. Learn more at http://www.hp.com/go/mobileprinting.

[2] 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.

[3] Typical Electricity Consumption (TEC) rating represents the typical electricity consumed by a product during 1 week, measured in kilowatt-hours (kWh).

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

[5] Declared yield value in accordance with ISO/IEC 19752 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see http://www.hp.com/go/learnaboutsupplies.

[6] Acoustic values are subject to change. For current information see http://www.hp.com/support. Configuration tested: dn model, simplex printing, A4 paper at 43 ppm

[7] 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.

[8] HP recommends that the number of pages per month of imaged output be within the stated range for optimum device performance, based on factors including supplies replacement intervals and device life over an extended warranty period.

[9] HP SureSupply alerts you when your print cartridge is running low and helps you purchase online or locally through HP or a participating retailer. Only available with Original HP supplies; Internet access required. To learn more, visit http://www.hp.com/go/SureSupply.

[10] Paper handling accessories are offered separately and with an additional cost.

[11] 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 and Scan drivers only; Windows RT OS for Tablets (32- & 64-bit) uses a simplified HP print driver built into the RT OS; UNIX modelscripts are available on HP.com (Modelscripts are printer drivers for UNIX operating systems); Linux systems use in-OS HPLIP software.

[13] Width includes 0.16 in (4 mm) per side for side handle protrusions. Height with touchscreen fully raised.

[15] Includes toner cartridge weight and 550-sheet tray feeder

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