HP LaserJet Managed E50145dn

Handle business solutions securely, plus help conserve energy with HP EcoSmart toner

Choose an HP LaserJet Enterprise printer designed to handle business solutions securely and efficiently, and helps conserve energy with HP EcoSmart black toner. Keep up with the demands of growing business with a printer you can rely on.[9]

The world's most secure printing[1]

- Each printer in your fleet checks its operating code and repairs itself from attacks.
- Your printer's outgoing network connections are inspected to stop suspicious requests and thwart malware.
- Memory activity is monitored to continually detect and stop attacks.
- Firmware is automatically checked during startup to determine if it's authentic code—digitally signed by HP.

Low costs, low energy use

- Stay productive with reliable cartridges, and help save energy while printing with HP EcoSmart black toner.[9]
- Spend less time replacing toner, and more on business. Choose optional high-yield toner cartridges.[2]
- Enhanced energy savings —up to 29% over prior products[9] plus save with Auto-on/Auto-off technology.[3]
- This printer fits in tight places to boost performance in almost any workspace.

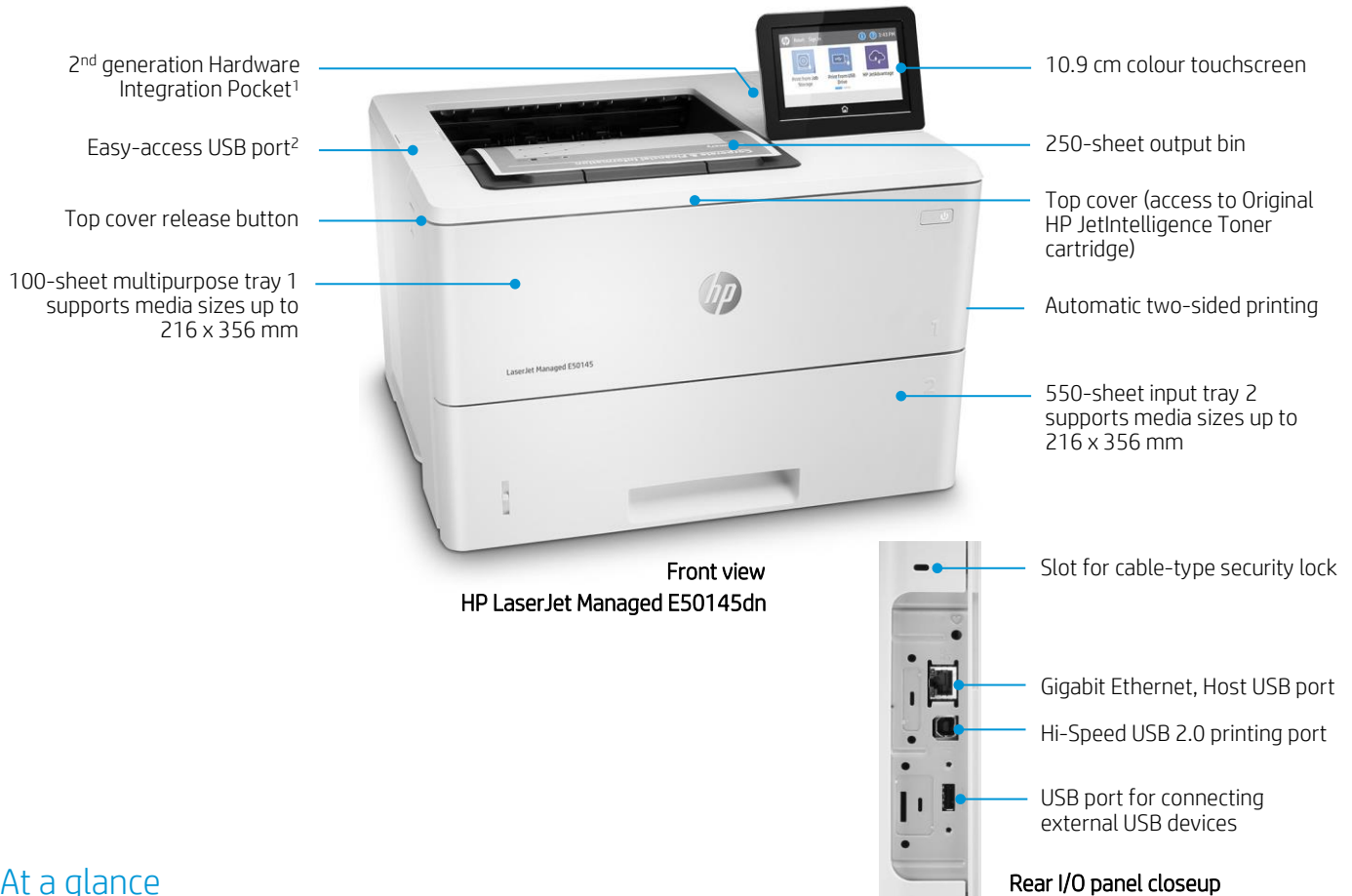### Your whole fleet. At your control.

- Centralize control of your printing environment with HP Web Jetadmin[5]—and help build business efficiency.
- Gain insights into print costs, behaviors, utilization to drive efficiencies with this cloud-based printer.
- Set security configuration policies and automatically validate settings for every HP printer in your fleet.[4]

Enhanced productivity keeps business moving

- Submit print jobs on the go and securely release them at any HP Roam-enabled office printer, securely.[8]
- Scan files directly to Microsoft® Office and SharePoint, plus email, USB, and network folders.[6]
- Easily print from a variety of smartphones and tablets—generally no setup or apps required. [7]
- Don't wait for documents. Print your first page in as little as 5.9 seconds from energy-efficient sleep mode.

Product Walkaround

2nd generation Hardware Integration Pocket[1]

Easy-access USB port[2]

Top cover release button

100-sheet multipurpose tray 1 supports media sizes up to 216 x 356 mm

10.9 cm colour touchscreen

250-sheet output bin

Top cover (access to Original HP JetIntelligence Toner cartridge)

Automatic two-sided printing

550-sheet input tray 2 supports media sizes up to 216 x 356 mm

Front view
HP LaserJet Managed E50145dn

Slot for cable-type security lock

Gigabit Ethernet, Host USB port

Hi-Speed USB 2.0 printing port

USB port for connecting external USB devices

Rear I/O panel closeup

At a glance

Model (product number)	E50145dn (1PU51A)
Print speed (black)[3]	Up to 43/45 pages per minute (ppm) (A4/letter)
First page out (from ready)[4]	As fas as 5.9 seconds (A4)
Automatic two-sided printing	✓
100-sheet multipurpose tray 1, 550-sheet input tray 2	✓
Optional 550-sheet paper tray	Add up to three
Optional printer cabinet	Add up to one
Input capacity (standard/maximum[5])	Up to 650/2,300 sheets
Recommended monthly page volume[6]	2,000 to 15,000 pages
Managed Cartridge yield[7]	Black: ~23,000 pages
Optional wireless direct printing[8]/NFC touch-to-print[9]	✓

[1] Solutions deployed through the Hardware Integration Pocket (HIP) may require additional purchase. The HP LaserJet Managed E50145dn printer comes with a second-generation HIP.
[2] An administrator must enable the easy-access USB port before use.
[3] Measured using ISO/IEC 24734, excludes first set of test documents. For more information, see hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.
[4] Measured using ISO/IEC 17629. For more information, see hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.
[5] Purchase of optional paper trays required to reach maximum input capacity.
[6] Recommended Monthly Page Volume: 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.
[7] Average black declared yields based on ISO/IEC 19752 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see hp.com/go/learnaboutsupplies. HP Managed Cartridges are not included in printer purchase; purchase separately.
[8] 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.
[9] Touch-to-print capability requires purchase of the optional HP Jetdirect 3100w BLE/NFC/Wireless Accessory. Mobile device must support Near Field Communication (NFC)-enabled printing. For more information, see hp.com/go/businessmobileprinting.

Technical specifications

Product name	HP LaserJet Managed E50145dn
Product number	1PU51A
Functions	Print
Print	
Duplex printing	Automatic (standard)
Print speed[8]	**Black (A4, normal)** Up to 43 ppm; **Black (A4, duplex)**: Up to 34 ipm; **Black (letter, normal)**: Up to 45 ppm; **Black (letter, duplex)**: Up to 36 ipm
First page out[9]	**Black (A4, ready)**: As fast as 5.9 sec; **Black (A4, sleep)**: As fast as 10 sec
Print technology	Laser
Print resolution	**Black (best)**: Up to 1200 x 1200 dpi; **Black (normal)**: Up to 600 x 600 dpi
Print resolution technology	300 dpi, 600 dpi, HP FastRes 1200, HP ProRes 1200
Print cartridges number	1 (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), Apple AirPrint™
Printer management	HP Printer Assistant; HP Device Toolbox; HP Web JetAdmin Software; HP JetAdvantage Security Manager; HP SNMP Proxy Agent; HP WS Pro Proxy Agent; Printer Administrator Resource Kit for HP Universal Print Driver (Driver Configuration Utility - Driver Deployment Utility - Managed Printing Administrator)
Connectivity	
Standard connectivity	2 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Gigabit Ethernet 10/100/1000T network
Mobile printing capability[4]	Apple AirPrint™; Google Cloud Print™; HP ePrint; Mopria™ Certified; ROAM capable for easy printing
Wireless capability	Optional, enabled with purchase of a wireless hardware accessory. Single band Wireless Station and Wi-Fi Direct functionality available with HP Jetdirect 3000w NFC/Wireless Accessory J8030A, Dual band Wireless Station and Wi-Fi Direct functionality available with HP Jetdirect 3100w BLE/NFC/Wireless Accessory 3JN69A, Dual band Wireless Station functionality available with HP Jetdirect 2900nw Print Server J8031A
Network capabilities	HP Jetdirect 2900nw Print Server J8031A, HP Jetdirect 3000w NFC/Wireless Accessory J8030A, HP Jetdirect 3100w BLE/NFC/Wireless
Memory	**Standard**: 512 MB; **Maximum**: 1.5 GB, MAX memory, when 1 GB Accessory DIMM is installed
Hard disk	Optional, 500 GB minimum encrypted hard disk drive
Processor speed	1.2 GHz
Warm-up time	106 sec
Paper handling	
Duty cycle (monthly)	**Duty cycle (monthly, A4)**: Up to 150,000 pages; **Recommended monthly page volume**: 2,000 to 15,000
Input capacity	100-sheet multipurpose Tray 1, 550-sheet input Tray 2, automatic duplex printing; Up to 3 optional 550-sheet paper feeders
Output capacity	250-sheet output bin
Number of paper trays	**Standard**: 2; **Maximum**: 5
Media types	Paper (bond, color, letterhead, plain, preprinted, prepunched, recycled, rough); envelopes; labels; cardstock; transparencies; user-defined
Media weight	Tray 1: 60 to 199 g/m²; Tray 2+: 60 to 120 g/m²
Media size	**Custom (metric)**: Tray 1: 76.2 x 127 to 215.9 x 355.6 mm; Tray 2: 105 x 148 to 215.9 x 355.6 mm; Optional 550-sheet Tray: 105 x 148 to 215.9 x 355.6 mm; **Supported (metric)**: Tray 1: A4, A5, A6, RA4, B5 (JIS), B6 (JIS), 10 x 15 cm, Oficio (216 x 340), 16K, postcards (JIS single and double), envelopes (B5, C5, C6, DL); Tray 2: A4, A5, A6, RA4, B5 (JIS), B6 (JIS), Oficio (216 x 340), 16K, postcards (JIS double); Optional 550-sheet Tray: A4, A5, A6, RA4, B5 (JIS), B6 (JIS), Oficio (216 x 340), 16K, postcards (JIS double); Optional Automatic Duplexer: A4, RA4, Oficio (216 x 340)
Printer dimensions (W x D x H)	418 x 376 x 326 mm
Printer weight[2]	11.48 kg
Software included	No software solutions are included in the Box, only on http://hp.com, http://123.hp.com
What's in the box[1]	HP LaserJet Managed E50145dn Printer; Black Toner Cartridge (installed); Fixed-Size Cassette Guides; Regulatory flyer; Unpack flyer; Installation Guide; Power cord; Warranty Cards; Support flyers/ phone number list; USB-8ft cable (APJ only)
Warranty	One-year, next-business day, onsite warranty. Warranty and support options vary by product, country and local legal requirements. Contact your Contractual Vendor or go to hp.com/support to learn about HP award winning service and support options in your region. (wty code 4G; wty ID A001)
Systems	
Compatible operating systems	Windows Client OS (32/64 bit), Win10, Win8.1, Win 8 Basic, Win8 Pro, Win8 Enterprise, Win8 Enterprise N, Win7 Starter Edition SP1, UPD Win7 Ultimate, Mobile OS, iOS, Android, Mac, Apple® macOS Sierra v10.12, Apple® macOS High Sierra v10.13, Apple® macOS Mojave v10.14, Discrete PCL6 Printer Driver, For more information on the supported operating systems go to http://support.hp.com, Enter your product name and search, Click on User Guides and enter your product name and search for User Guide, Search for your (Product Name) - User Guide, Search for the Supported Operating Systems section, UPD PCL6 / PS Printer Drivers, Supported Operating systems, For more information on the supported operating systems see http://www.hp.com/go/upd
Minimum system requirements	**Windows**: 2 GB available hard disk space, Internet connection, USB port, Internet browser. (For Additional OS hardware requirements see microsoft.com); **Mac**: 2 GB Available hard drive Space, Internet connection or USB port, OS hardware requirements see apple.com
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,...); Connection Inspector - helps ensure network connections to device are safe, Security management: Compatible with HP JetAdvantage Security Manager, HP Printer Security Plugin for Microsoft SCCM, Device Security Syslog Messages processed and accessable in ArcSight, Splunk, and McAfee(ESM) SIEMs
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 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; Home button
Display	4.3-in (10.92 cm) Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle)
Power[11]	**Requirements**: Input voltage: 100 V to 127 V nominal (+/-10%), 50 - 60 Hz nominal (+/- 3 Hz), 7.5 A; Input voltage: 220 V to 240 V nominal (+/-10%), 50 - 60 Hz nominal (+/- 3 Hz), 4 A; **Consumption**: 601 watts (Active Printing), 7.60 watts (Ready), 2.61 watts (Sleep), 0.06 watts (Auto-Off), 0.06 watts (Off), Auto Off/Wake on LAN 0.73 Watt; **Typical Electricity Consumption (TEC)**[12]: 1.257 kWh/Week (Blue Angel); 1.310 kWh/Week (Energy Star); **Power supply type**: Built-in 115V or 220V Power Supply
Operating environment	**Operating temperature range**: 10 to 32.5°C; **Recommended operating temperature range**: 15 to 27°C; **Operating humidity range**: 10 to 80% RH; **Recommended operating humidity range**: 30 to 70% RH
Acoustics	**Acoustic power emissions**: 6.8 B(A); **Acoustic power emissions (ready)**: 3.9 B(A); **Acoustic pressure emissions**: 54 dB(A); **Acoustic pressure emissions bystander (ready)**: 24 dB(A)
Safety approvals and requirements	EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011; IEC 60950-1:2005 +A1:2009; EN 62479:2010/IEC 62479:2010; CAN/CSA C22.2 No. 60950-1-07 2nd Ed. 2011-12; Compliance of IEC 60950-1 standard considers all country deviations according to the most recent IECEE CB Bulletin; UL/cUL Listed and UC CoC (US/Canada); GS Certificate (Germany, Europe); Low Voltage Directive 2006/95/EC with CE Mark (Europe); Compliance with Laser safety standards: EN 60825-1:2007/IEC 60825-1:2007 (Class 1 Laser Product); 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 FDA 21 CFR subchapter J part 1010 and 1040 (FDA Accession Number via test/ reporting to CDRH Factory ID, location and inspections are part of the certification process and record)
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, Syslog; Security: SNMPv3, SSL Cert Management, IPSec/Firewall, ACL, 802.1x

Ordering information

Accessories

Number	Description
1PV95A	HP Internal USB Ports Qty 100 for M507 and M528
3JN69A	HP Jetdirect 3100w BLE/NFC/Wireless Accessory
B5L28A	HP Internal USB Ports
B5L29A	HP High-Performance Secure Hard Disk
F2A72A	HP LaserJet 550-sheet Paper Tray
F2A73A	HP LaserJet Printer Cabinet
G6W84A	HP 1 GB 90-pin DDR3 DIMM
J8031A	HP Jetdirect 2900nw Print Server
X3D03A	HP Universal USB Proximity Card Reader
Y7C05A	HP HIP2 Keystroke Reader
4QL32A	HP Legic Reader

Original HP ink cartridges and maintenance supplies

Number	Description
W9008MC	HP Black Managed LJ Toner Cartridge (Up to 23,000 pages)

HP Care Packs

Number	Description
UB7E7E	HP 3 year Next Business Day w/DMR Service for LaserJet Enterprise E50145 Managed
UB7E8E	HP 4 year Next Business Day w/DMR Service for LaserJet Enterprise E50145 Managed
UB7E9E	HP 5 year Next Business Day w/DMR Service for LaserJet Enterprise E50145 Managed
UB7F0E	HP 3 year 4 hour 9x5 w/DMR Service for LaserJet Enterprise E50145 Managed
UB7F1E	HP 4 year 4 hour 9x5 w/DMR Service for LaserJet Enterprise E50145 Managed
UB7F2E	HP 5 year 4 hour 9x5 w/DMR Service for LaserJet Enterprise E50145 Managed

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

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Thailand	(662) 353 9500	hp.com/th
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For the following countries, please fax your queries to (65) 6275 6707 Bangladesh, Bhutan, Brunei, Cambodia, Maldives, Nepal, Pakistan, Sri Lanka

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 review of 2018 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 http://www.hp.com/go/PrintersThatProtect. For more information: http://www.hp.com/go/printersecurityclaims

[2] High Yield Black Original LaserJet Toner Cartridges not included; please purchase separately

[3] HP Auto-On/Auto-Off Technology capabilities are subject to printer and settings.

[4] HP Web Jetadmin is available for download at no additional charge at http://www.hp.com/go/webjetadmin

[5] HP JetAdvantage Security Manager must be purchased separately. To learn more, please visit http://www.hp.com/go/securitymanager

[6] Requires an Internet connection to the printer. Services may require registration. App availability varies by country, language, and agreements. For details, see hpconnected.com.

[7] 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

[8] To enable HP Roam, some devices may require firmware to be upgraded and an optional accessory to add Bluetooth® Low Energy (BLE) beaconing capabilities. Subscription may be required. For more information, visit hp.com/go/roam

[9] Based on HP testing using the ENERGY STAR® program's Typical Electricity Consumption (TEC) method or as reported in energystar.gov as of May 2019. Actual results may vary. HP testing is based on using the default Sleep Timer setting for all products and using the Network port. Default Sleep Timer setting is 0 minutes. Increasing the Sleep Timer setting longer than the default value can increase TEC.

Technical specifications disclaimers

[1] In box cartridge yields 5,000 black pages based on ISO/IWC 19752 and continuous printing. Actual pages may vary considerably based on images printed and other factors. For more information, visit: http://www.hp.com/go/learnaboutsupplies.

[2] With print cartridges

[3] Declared yield value in accordance with ISO/IEC 19752. Actual yields vary considerably based on images printed and other factors. For more information, visit: http://www.hp.com/go/learnaboutsupplies

[4] To enable HP Roam, some devices may require firmware to be upgraded and an optional accessory to add Bluetooth® Low Energy (BLE) beaconing capabilities. Customer can purchase the HP Jetdirect 3100w BLE/NFC/Wireless accessory or the RadBeacon USB.

[5] 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.

[6] 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.

[7] Measured using ISO 24734 Feature Test, A5 Landscape Feed. Speed may vary based on content, PC, media orientation, and media type.

[8] 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.

[9] 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.

[10] EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status by country

[11] 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.

[12] Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty. Energy Star value typically based on measurement of 115 V device.

[13] Best TEC is not applicable to the ES 2.0 TEC. This measurement was made with the printer configuration optimized for energy efficiency. Minimum Sleep Delay was used, Wi-Fi Direct was disabled, and Active I/O - Energy Efficient Ethernet was used.

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

To learn more, visit hp.com