HP Color Laser MFP 178nw { Specifications }

FUNCTIONS	Print, copy, scan
FIRST PAGE OUT BLACK (A4, READY)	As fast as 12.4 sec
FIRST PAGE OUT BLACK (A4, SLEEP)	As fast as 13 sec (15 min)
PRINT SPEED BLACK (ISO, A4)	Normal: Up to 18 ppm [11] 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.
PRINT SPEED COLOR (ISO, A4)	Up to 4 ppm [11] 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.
FIRST PAGE OUT (READY)	Black: As fast as 12.4 sec [12] 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.
FIRST PAGE OUT (SLEEP)	Black: As fast as 13 sec (15 min) [12] 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.
FIRST COPY OUT	As fast as 12.6 sec
FIRST COPY OUT (SLEEP)	As fast as 20 sec (15min)
DUTY CYCLE (MONTHLY, A4)	Up to 20,000 pages Duty cycle is defined as the maximum number of pages per month of imaged output.
RECOMMENDED MONTHLY PAGE VOLUME	100 to 500 [15] 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.
PRINT TECHNOLOGY	Laser
PRINT QUALITY BLACK (BEST)	Up to 600 x 600 dpi
PRINT QUALITY COLOR (BEST)	Up to 600 x 600 dpi
PRINT LANGUAGES	SPL
DISPLAY	2-Line LCD
PROCESSOR SPEED	800 MHz
AUTOMATIC PAPER SENSOR	No
REPLACEMENT CARTRIDGES	HP 116A Original Laser Toner Cartridge (~1000/~700 pages) W2060A/W2061A/W2062A/W2063A (AMS); HP 117A Original Laser Toner Cartridge (~1000/~700 pages) W2070A/W2071A/W2072A/W2073A (EMEA); HP 118A Original Laser Toner Cartridge (~1000/~700 pages) W2080A/W2081A/W2082A/W2083A (China Only); HP 119A Original Laser Toner Cartridge (~1000/~700 pages) W2090A/W2091A/W2092A/W2093A (APJ excl China); Drum WW (less China) W1120A; Drum (China only)

	W1132A [6] Average color composite (C/M/Y) and black declared yields 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. Dynamic security enabled printer. Only intended to be used with cartridges using an HP original chip. Cartridges using a non-HP chip may not work, and those that work today may not work in the future. http://www.hp.com/go/learnaboutsupplies
MOBILE PRINTING CAPABILITY	HP Smart App; Apple AirPrint™; Mobile Apps; Mopria™ Certified; Wi-Fi® Direct Printing; Google Cloud Print™ May require a firmware upgrade to be compatible, download at http://www.hp.com/go/support [8]
WIRELESS CAPABILITY	Yes, built-in Wi-Fi 802.11 b/g/n
CONNECTIVITY, STANDARD	Hi-speed USB 2.0 port, Fast Ethernet 10/100Base-Tx network port, Wireless 802.11 b/g/n
CONNECTIVITY, OPTIONAL	None
MINIMUM SYSTEM REQUIREMENTS	Windows 7 or newer, Intel® Pentium® IV 1 GHz 32-bit or 64-bit processor or higher, 1 GB RAM, 16 GB HDD OS X v10.11 or newer, 1.5 GB HD, Internet, USB
COMPATIBLE OPERATING SYSTEMS	Windows®: 7 (32/64 bit), 2008 Server R2, 8 (32/64 bit), 8.1 (32/64 bit), 10 (32/64 bit), 2012 Server, 2016 Server, macOS v10.14 Mojave, macOS v10.13 High Sierra, macOS v10.12 Sierra, OS X v10.11 El Capitan [14] Windows 7 or higher
MEMORY	128 MB
MEMORY, MAXIMUM	128 MB Maximum Memory is 128 MB(Not Extended)
PAPER HANDLING INPUT, STANDARD	150-sheet input tray
PAPER HANDLING OUTPUT, STANDARD	50-sheet output bin
MAXIMUM OUTPUT CAPACITY (SHEETS)	Up to 50 sheets
DUPLEX PRINTING	Manual (driver support provided)
MEDIA SIZES SUPPORTED	Tray1: A4; A5; A6; B5 (JIS); Oficio 216 x 340. Tray2: Not supported; Optional Automatic duplexer: Not supported
MEDIA SIZES, CUSTOM	76 x 148.5 to 216 x 356 mm
MEDIA TYPES	Plain, Light, Heavy, Extra Heavy, Colored, Preprinted, Recycle, Labels, Bond, Glossy
MEDIA WEIGHT, SUPPORTED	60 to 220 g/m²
SCANNER TYPE	Flatbed
SCAN FILE FORMAT	PDF, JPG, TIFF
SCAN RESOLUTION, OPTICAL	Up to 600 × 600 dpi
SCAN SPEED (NORMAL, A4)	Up to 15 ipm (b&w), up to 6 ipm (color)
RECOMMENDED MONTHLY SCAN VOLUME	6250 to 10,500 [16] HP recommends that the number of scanned pages per month be within the stated range for optimum device performance
DIGITAL SENDING STANDARD FEATURES	Scan to WSD; PC Scan
SCAN INPUT MODES	Front-panel scan, copy, HP MFP scan software, user application via TWAIN or WIA
COPY SPEED (NORMAL)	Black: Up to 14 cpm Color: Up to 4 cpm [9]
COPY RESOLUTION (BLACK TEXT)	Up to 600 x 600 dpi (flatbed); Up to 600 x 600 dpi
COPY RESOLUTION (COLOR TEXT AND GRAPHICS)	Up to 600 x 600 dpi (flatbed); Up to 600 x 600 dpi

COPY REDUCE / ENLARGE SETTINGS	25 to 400%
COPIES, MAXIMUM	Up to 999 copies
POWER	110-volt input voltage: 110 to 127 VAC, 50/60 Hz and 220-volt input voltage: 220 to 240 VAC, 50/60 Hz
POWER CONSUMPTION	300 watts (Active Printing), 38 watts (Ready), 1.9 watts (Sleep), 0.2 watts (Manual off); 0.2 watts (Auto off/Manual on) [5]
ENERGY EFFICIENCY	CECP
BLUE ANGEL COMPLIANT	Yes, Blue Angel DE-UZ 205—only ensured when using Original HP supplies
OPERATING TEMPERATURE RANGE	10 to 30°C
RECOMMENDED OPERATING HUMIDITY RANGE	20 to 70% RH (non-condensing)
WHAT'S IN THE BOX	Preinstalled introductory HP Laser Printer 0.7K pages Black, 0.5K pages Cyan, Yellow, Magenta print cartridges; Imaging drum, Toner collection unit; Installation guide, Getting Started guide, User's Guide, Support flyer, Warranty guide; No CD-ROM; Power cord; USB cable (AP, only Wi-Fi model for AMS, EMEA) [1] Introductory cartridges included; yields 500 color composite (C/Y/M) and 700 black pages. Replacement cartridge average composite (C/Y/M) declared yield 700 and average black yield 1000 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.
CABLE INCLUDED	Yes, 1 USB
SOFTWARE INCLUDED	Common Installer, V3 Print Driver with Lite SM, TWAIN/WIA Driver, HP MFP Scan, OCR program
WARRANTY	One-year limited hardware warranty; For more info please visit us at https://support.hp.com