

HEWLETT-PACKARD

LaserJet Printer Family

The Professional Printers

Technical Data



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The Hewlett-Packard LaserJet, LaserJet PLUS, and LaserJet 500 PLUS are true letter-quality printers. They are fast, printing up to 8 pages per minute, and whisper quiet. The ability to mix different fonts (typesets) on a single page as well as advanced graphics features gives the LaserJet family of printers unmatched flexibility in both personal computer and office workstation settings. In addition to the standard LaserJet features, the LaserJet PLUS and LaserJet 500 PLUS printers offer electronic forms capabilities, more graphics per page, font downloading and macro abilities, and increased memory to meet additional personal or office printing needs. Where

printing requirements typically range from 500-4000 pages per month, you'll find that the LaserJet and LaserJet PLUS printers meet all of your printing needs. The HP LaserJet 500 PLUS printer further enhances the HP LaserJet Printer family by adding additional paper handling features with two increased-capacity input bins, an increased output bin, job offsetting, correct-order output, and a typical printing range of up to 6000 pages per month. Additionally, Hewlett-Packard offers service contracts which support higher printing ranges for the LaserJet family of printers.

Feature Comparison

	LaserJet Printer	LaserJet PLUS Printer	LaserJet 500 PLUS Printer
Pages per Minute	Up to 8 *	Up to 8 *	Up to 8 *
Text Resolution	300 X 300 dpi	300 X 300 dpi	300 X 300 dpi
Number of Sheets Per Input Tray	100	100	250
Number of Input Trays	1	1	2
Number of Sheets Per Output Tray	20	20	250
Correct Order Output	No	No	Yes
Job Offsetting	No	No	Yes
Character Height	Up to 18 pt. Size	Up to 30 pt. size	Up to 30 pt. size
Graphics Resolution (8 X 10 inch page) 75 dpi 100 dpi 150 dpi 300 dpi	Full page Half page Quarter page Sixteenth page	Full Page Full page Full page Half page	Full Page Full Page Full Page Half Page
Internal Fonts	Courier (10 CPI/12 point portrait and landscape)	Courier (10 CPI/12 point portrait and landscape) Compressed Line Printer (16.66 CPI/8.5 point portrait)	Courier (10 CPI/12 point portrait and landscape) Compressed Line Printer (16.66 CPI/8.5 point portrait)
Kerning	No	Yes	Yes
Cartridge	Yes	Yes	Yes
Downloadable Fonts	No	Yes	Yes
Number of Fonts Printed Per Page	Up to 8	Up to 16	Up to 16
Macros (User defined commands)	No	Yes	Yes
Software Forms Utilities	Cartridge-based character sets	Cartridge-based character sets; built-in rules, shading, and patterns with automatic forms overlay	Cartridge-based character sets; built-in rules, shading, and patterns with automatic forms overlay
Downloadable Forms	No	Yes	Yes
Forms Overlay	No	Yes	Yes
User Memory	59K	395K	395K
Total Memory	128K	512K	512K
Hardware Interface	RS-232C/422	Parallel and RS-232C/422	Parallel and RS-232C/422
One-Year Warranty	Yes	Yes	Yes

* Depending on software used.

LaserJet Printer Features

Excellent Print Quality

- True letter-quality print
- Print resolution up to 300 x 300 dots-per-inch

Raster Graphics Capability

• Up to 59K Bytes of memory can be used to print raster graphics on a single page. This can be used to print single or multiple images on a page at four different resolutions (300, 150, 100, 75 dots per inch). Many current personal computer software packages take advantage of this capability.

- IBM PC screen raster graphics capability with software
- Apple Macintosh screen raster graphics capability with software
- HP 150 screen raster graphics capability

Ideal for Office Information Systems

- Very quiet operation (<55 dBA)
- Compact desktop size
- Letter and legal size single-sheet paper or envelopes (See LaserJet Paper Specifications Guide, P/N 5954-2268).
- Multiple fonts per page
- Workstation on-demand printing
- Duplex (two-sided) printing with manual feed
- Prints up to 8 pages per minute

Easy to Maintain and Operate

- Disposable EP cartridge containing the main electrophotographic components makes the printer easy to service and very reliable
- Simple preventative maintenance procedures
- A variety of Hewlett-Packard maintenance support packages and services are available

Font Flexibility

- Standard: Courier 10 CPI/12 point (Portrait & Landscape)
- Prints characters up to 18 point size
- A large variety of character fonts in plug-in

cartridges are available from your HP Dealer or from HP's Direct Marketing Division

- Prints up to 8 fonts per page

Interface

- Standard RS-232C/422 Interface (300-19.2K baud)

LaserJet PLUS Printer Features

In addition to all of the features listed for the standard LaserJet printer, the LaserJet PLUS printer offers the advanced capabilities outlined here. Where applicable, these features replace those of the standard LaserJet. The standard LaserJet printer may easily be upgraded to a LaserJet PLUS.

Raster Graphics Capability

• Up to 395K Bytes of memory can be used to print raster graphics on a single page. This can be used to print single or multiple images on a page at four different resolutions (300, 150, 100, 75 dots per inch). Many current personal computer software packages take advantage of this capability.

Forms Design

- Rules, gray shading and patterns
- Forms overlay to enable automatic forms printing
- Up to 32 forms can be stored in memory
- Downloadable macros (user defined commands for forms applications)
- Ideal for printing your own tax forms, letterheads, page borders and logos

Font Flexibility

- Standard: Courier 10 CPI/12 point (Portrait & Landscape) and Compressed Line Printer 16.66 CPI/8.5 point (Portrait)
- Prints characters up to 30 point size
- Downloadable soft font capability available from host CPU for flexibility in printing multiple fonts per page
- Prints up to 16 fonts per page
- Up to 32 soft fonts can be stored in memory for increased printer sharing ability (dependent on memory used)
- Increased selection of soft fonts, including support for kerning

Interface

- Standard Parallel and RS232C/422 Interface (300-19.2K baud)

LaserJet 500 PLUS Printer Features

In addition to all of the features listed for the standard LaserJet and LaserJet PLUS printers, the LaserJet 500 PLUS printer offers the additional paper handling features listed here.

Paper Handling Capabilities

- Dual-bin paper feed with automatic feed feature
- Two, 250-sheet input bins and a 250-sheet output bin for increased printing flexibility
- Front panel or programmatic control of input bin paper feeding capabilities.
- Correct order output
- Job Offsetting for easy separation between jobs

Specifications

(LaserJet Family of Printers)

Safety and Environment Compliance

- UL 478 listed
- CSA 22.2 154 Certified
- Complies with IEC 380 & IEC 435
- FCC level B
- VDE 0836, VDE 0871B, IEC-TC76 and VBG 93 (level B)
- BRH Certified Class I Laser Product (safe for office/EDP use)

Print Capacity

- Print Speed: First page less than 18 seconds after receipt of data (22 seconds using manual feed). Subsequent pages at 8 pages per minute - print speed is application and system dependent.
- Warm-Up Time: Less than two minutes from cold turn on
- Paper Tray Capacity: 100 sheets per input tray and 20 sheets per output tray
- LaserJet 500 PLUS Paper Tray Capacity: 250 sheets per input tray and 250 sheets per output tray
- Paper Feed: Single sheet, automatic. Two sided

printing capability with manual feed for second pass. Paper stacking is done in reverse order for LaserJet and LaserJet PLUS printers. Paper stacking is done in either correct or reverse order for the LaserJet 500 PLUS printer.

Printing Process

- Dry type electrophotography

Paper*

- Paper: Single sheet copier paper
- Weights: 16 to 21 lbs. (60-79 g/m²)
- Size: Letter (8.5 x 11 inch)
Legal (8.5 x 14 inch)
European A4 (210mm x 297mm)
European B5 (182mm x 257mm)
- Type: The printers were designed for use with high quality photocopier bond paper. The LaserJet printers can also accommodate a variety of special application paper, such as labels, colored and preprinted paper, as well as overhead transparency film designed for photocopiers. It is strongly recommended that all paper be tested before purchasing. *
- Storage and use: Best results will be obtained if paper is kept within the listed ranges.

Temperature: 17-23 degrees C (63-73 degrees F)

Relative Humidity: 40-50%

*Note: For additional information concerning LaserJet Printer Family paper specifications, refer to the LaserJet Paper Specifications Guide available from your HP Dealer or Sales and Service Representative (part number 5954-2268).

Printing

- Print Resolution: Up to 300 x 300 dots-per-inch
- Print Orientation: Portrait (printing across the width of the page) and Landscape (printing across the length of the page)
- LaserJet Resident Fonts: Courier 10 CPI/12 point portrait and landscape orientation
- LaserJet PLUS and LaserJet 500 PLUS: Additional Line Printer 16.66 CPI/8.5 point resident font - portrait orientation
- Optional Fonts: Additional fonts can be used by inserting a plug-in font cartridge.
- LaserJet PLUS and LaserJet 500 PLUS: Fonts may be downloaded from host CPU for flexibility in printing multiple fonts per page and printer sharing.

- LaserJet 500 PLUS: Job offsetting can be used between jobs to allow for easy job separation.

Printable Characters-Per-Line (Fixed Pitch)

Print Pitch	Portrait/Landscape			
	Std.	Legal	A4	B5
10	80/106	80/136	77/112	66/97
12	96/127	96/163	93/135	80/116
16.66	132/176	132/226	129/188	111/167

Printable Lines-Per-Page

Lines/Inch	Portrait/Landscape			
	Std.	Legal	A4	B5
6	62/48	80/48	66/46	56/39
8	84/63	108/63	89/61	76/52

Printable Surface

	Std.	Legal	A4	B5
Width: Inches	8.0	8.0	7.8	6.7
MM	203	203	198	170
Length: Inches	10.6	13.6	11.3	9.7
MM	269	345	287	247

Power

- Voltage/Frequencies:
115V+/-10% 60Hz
- Optional:
220V+/-10% 50Hz
240V+/-10% 50Hz
- Power Consumption at 115 VAC:
850 Watts Printing Maximum (2900 BTU/Hr)
170 Watts Standby (580 BTU/Hr)

Environmental

Temperature (Printer & Cartridge)

Operating	10 to 32.5 degrees C. (50 to 91 degrees F.)
Storage	0 to 35 degrees C. (32 to 95 degrees F.)

Humidity

Operating	20 to 80% RH
Non-Operating	10 to 80% RH

Altitude

Operating	0 to 2,500 metres (0-8,200 feet)
Non-operating	0 to 15,000 metres (0-49,200 feet)

Audible Noise



Printing:
LaserJet/LaserJet PLUS < 50 dB(A)
LaserJet 500 PLUS < 55 dB(A)
Standby < 45 dB(A)

Note: Measured one meter from source according to ISO/DIS 7779

Physical (LaserJet and LaserJet PLUS)

Width	47.5 cm. (18.5 inches)
Depth (body only)	41.5 cm. (16.2 inches)
Depth (with trays)	72.3 cm. (28.2 inches)
Height	29.3 cm. (11.4 inches)
Weight	32 kg. (71 pounds)

Physical (LaserJet 500 PLUS)

Width	47.5 cm. (18.5 inches)
Depth (body only)	49.5 cm. (19.5 inches)
Depth (with trays)	87.5 cm. (34.4 inches)
Height	46.0 cm. (18.1 inches)
Weight	43 kg. (94 pounds)

LaserJet Printer Font Product Summary

Soft Fonts

HP 3.5" Double-sided disc

33411AC Tms Rmn/Helv Base Set, USASCII
33411AD Tms Rmn/Helv Base Set, Roman-8
33411AE Tms Rmn/Helv Supplemental Set, USASCII
33411AF Tms Rmn/Helv Supplemental Set, Roman-8
33411DA Letter Gothic Family *

HP Vectra/IBM PC 5.25" Double-sided disc

33412AC Tms Rmn/Helv Base Set, USASCII
33412AD Tms Rmn/Helv Base Set, Roman-8
33412AE Tms Rmn/Helv Supplemental Set, USASCII
33412AF Tms Rmn/Helv Supplemental Set, Roman-8
33412DA Letter Gothic Family

* Written single-sided

Ask your HP Dealer or Sales Representative for the latest information on soft fonts. Disc-based soft fonts can be used with the LaserJet PLUS and LaserJet 500 PLUS printers only.

Font Cartridges (Currently Available)

92286A Courier 1
 92286B Tms Proportional 1
 92286C International 1
 92286D Prestige Elite
 92286E Letter Gothic
 92286F Tms Proportional 2
 92286G Legal Elite
 92286H Legal Courier
 92286J Math Elite
 92286K Math Tms
 92286L Courier Portrait and Landscape
 92286M Prestige Elite Portrait and Landscape
 92286N Letter Gothic Portrait and Landscape
 92286P Tms Rmn Portrait and Landscape
 92286Q Memo 1
 92286R Presentations 1

92286T Tax 1
 92286U Forms Portrait
 92286V Forms Landscape
 92286W Bar Code 3-of-9/OCR-A
 92286X Bar Code EAN/UPC and OCR-B
 92286Y PC Courier 1

For font print samples and other font information, ask your HP Dealer or Sales Representative for the LaserJet Printer Font Cartridge Selection Guide, part number 5954-2270 (or ask to see the LaserJet Printer Family Font Catalog, part no. 5954-2277).

Font cartridges and discs are available through your HP Dealer or through Hewlett-Packard's Direct Marketing Division. Call toll free: 800-538-8787 (in California call 408-738-4133 collect).

Ordering Information

LaserJet Printer	2686A	Professional PC Printer Includes:	
		<ul style="list-style-type: none"> ● Operator's Manual ● Technical Reference Manual ● 128K RAM Memory (Up to 59K user memory) ● Standard RS-232C/422 Interface ● EP Toner Cartridge ● Letter-size input and output trays ● Courier 10 CPI/12 point font (Portrait and Landscape) 	
LaserJet PLUS Printer	2686A Option 300	Includes everything in standard LaserJet package plus:	
		<ul style="list-style-type: none"> ● 512K RAM Memory (Up to 395K user memory) ● Dual Parallel and RS-232C/422 Interface ● Line Printer 16.66 CPI/8.5 point font (Portrait) 	
LaserJet 500 PLUS Printer	2686D	Includes everything in LaserJet PLUS package and:	
		<ul style="list-style-type: none"> ● Dual input bin paper feed ● Two, 250-Sheet letter-size input trays and a 250-sheet output tray ● Paper Select key on Operator Control Panel ● Correct Order Output ● Job Offsetting 	
Supplies and Accessories	92285A 92285G 92285B 92285C 92285D 92285E 92287B 92287C 92287D 92287E 26053A	Black Toner Cartridge Brown Toner Cartridge Letter-Size Input Paper Tray (8 1/2 X 11) Legal-Size Input Paper Tray (8 1/2 X 14) A4-Size Input Paper Tray (210mm X 297mm) B5-Size Input Paper Tray (182mm X 257mm)	LaserJet and LaserJet PLUS Printers
		LaserJet 500 PLUS Letter-Size Input Paper Tray (8 1/2 X 11) LaserJet 500 PLUS Legal-Size Input Paper Tray (8 1/2 X 14) LaserJet 500 PLUS A4-Size Input Paper Tray (210mm X 297mm) LaserJet 500 PLUS B5-Size Input Paper Tray (182mm X 257mm) LaserJet PLUS Upgrade Kit (to convert a standard LaserJet to a LaserJet PLUS)	
RS-232C Cables	17255D 92221P 17355M 24542G 92219H 92219J 13242-60010	3.3-foot (1 meter) Male-to-Female IBM PC\XT Cable 5-foot (1.5 meter) Male-to-Male HP 110 Portable Cable 9-foot (2.3 meter) Male-to-Male Apple IIe and ///, DEC Rainbow Cable 10-foot (3 meter) Male-to-Female HP Vectra IBM PC\AT Cable 16-foot (5 meter) Male-to-Male HP 150 Cable 16-foot (5 meter) Male-to-Female IBM PC\XT Cable 16.7-foot (5 meter) Male-to-Male HP 150 Cable	
Parallel Cables	13242D 24542D 92219K	6.6-foot (2 meter) Male-to-Female HP 150 Cable 6.6-foot (2 meter) Male-to-Male HP Vectra or IBM PC\XT and PC\AT Cable 9-foot (2.7 meter) Male-to-Male HP Vectra or IBM PC\XT and PC\AT Cable	
Serial Extension Cables	92215F 92215T	50-foot (15 meter) Female-to-Male Cable 100-foot (30 meter) Female-to-Male Cable	

Supplies and accessories are available through Hewlett-Packard's Direct Marketing Division. Call toll free: 800-538-8787 (in California call 408-738-4133 collect).

Apple Macintosh is a product of Apple Computer, Inc.

IBM PC is a product of International Business Machines Corporation.

Call your local HP Sales Office or nearest Region Office for more information: Eastern (301) 258-2000; Midwestern (312) 255-9800; Southern (404) 955-1500; Western (213) 877-1282; Canadian (416) 678-9430. Ask the operator for Hewlett-Packard computer sales, or write: Hewlett-Packard 1820 Embarcadero Road, Palo Alto, CA 94303. In Europe write: Hewlett-Packard GmbH, Computer Products, Herrenberger Strasse 110, D-703 Boeblingen, Postfach 1430 West Germany. In Canada write: Hewlett-Packard (Canada) Ltd., 6877 Goreway Drive, Mississauga, Ontario Canada L4V 1M8. Elsewhere write: Hewlett-Packard Intercontinental, 3495 Deer Creek Road, Palo Alto, California 94304.

