



# HP Designjet 650C Printer - Product Specifications

---

[Model numbers](#)  
[Serial number location](#)  
[Graphic languages](#)  
[HP Designjet 650C Printer Model A](#)  
[HP Designjet 650C Printer Model B](#)  
[Recommended cables](#)  
[Media specifications](#)  
**Media types**  
[Media handling](#)  
[Ink information](#)  
[Memory information](#)  
[Performance](#)  
[Physical specifications](#)  
[Electrical specifications](#)  
[Environmental specifications](#)  
[Processor](#)  
[Warranty](#)  
[Safety certifications](#)

---

## Model numbers

Description	Model number
HP Designjet 650C printer	C2858A (D/A1 size)
HP Designjet 650C printer	C2859A (E/A0 size)
HP Designjet 650C printer model B	C2858B (D/A1 size)
HP Designjet 650C printer model B	C2859B (E/A0 size)
HP Designjet 650C/PS printer	C3791A (D/A1 size)
HP Designjet 650C/PS printer	C3792A (E/A0 size)

## Serial number location

When looking at the back of the printer, the serial number is located on the right panel directly above the power plug.

## Graphic languages

The printer accepts drawing data from CAD and other software programs supporting the following languages:

- Hewlett-Packard Graphics Language (HP-GL), a vector language
- HP-GL/2, an enhanced version of HP-GL
- HP-RTL
- P.J.L
- PostScript (R) (HP Designjet 650/PS, or 650C printers with PostScript installed)

## HP Designjet 650C Printer Model A

- Expandable top and bottom margins from 17 mm to 10 mm
- 300 x 300 dpi for Final and Draft modes
- Able to accept ROM SIMMs
- Sheet and roll media support
- Automatic cutter when plotting with roll media

- Hot I/O switching

## HP Designjet 650C Printer Model B

- User selectable and faster drying times
- Automatic Language Switching
- New scatter halftone dither
- PANTONE (R)\* Support
- Novell Certified

## Recommended cables

### RS-232-C interface

The use of a short cables (each less than 15 meters or 50 feet) is recommended for the RS-232-C interface. A longer cable is permissible, provided the load capacitance does not exceed 2500 picofarads.

### Centronics interface

The use of a short cable of 10 feet (3.5 m) or less is recommended for the Centronics interface.

## Media specifications

Media sizes	Width (carriage axis)		Length (paper axis)	
	Minimum	Maximum	Minimum	Maximum
E/A0-size printer	210 mm (8.3 inches)	917 mm (36.1 inches)	280 mm (11 inches)	1297 mm (51 inches)
D/A-1 size printer	210 mm (8.3 inches)	625 mm (24.6 inches)	280 mm (11 inches)	1297 mm (51 inches)

## Media types

### Monochrome

- Plain paper bond
- Plain vellum (HP preferred)
- Plain translucent paper (HP preferred)
- Hewlett-Packard polyester Inkjet film
- HP special Inkjet paper

### Color

HP special Inkjet paper

## Margins

	Normal	Expanded (roll media only)
Leading edge:	17 mm (0.67 inches)	10 mm (0.39 inches)
Trailing edge:	17 mm (0.67 inches)	10 mm (0.39 inches)
Sides:	5.0 mm (0.2 inches)	5.0 mm (0.2 inches)
All measurements +/- 2 mm (0.08 inch)		

## Resolution

Mono	Color
Final and Draft modes: 300 x 300 dpi	300 x 300 dpi

Enhanced mode: 600 x 600 dpi

PostScript mode: 300 x 300

Accuracy (Maximum accumulated error) +/-0.38 mm (0.015 inches) or +/-0.2% of the specified vector length, whichever is greater, at 23 degrees C (73 degrees F), 50–60% relative humidity, on HP Matte Film in Mono mode.

## Media handling

The printers handle media that does not exceed the following maximum and minimum:

	E-size	D-size
Min. width	8.3 inches (210 mm)	8.3 inches (210 mm)
Sheet	A/A4-E/A0	A/A4-D/A1
Roll widths	24 inches AND 36 inches	24 inches
Max. widths	36.1 inches(917 mm)	24.6 (625 mm)
Max. Sheet length	expected to be 1.6 m	

Long axis plotting available [maximum length 50 feet (15.2m) and 9 feet with PostScript driver].

The media margins define the real available plotting area on the media

**NOTE:** Long axis plotting may require a special driver or PPD file.

## Ink information

### Black Inkjet print cartridge

51640A

- Pigmented ink
  - dark black ink
  - crisp sharp characters
  - fast dry time
  - optimized to prevent black to color bleed
- Permanence
  - lightfastness
  - water resistance
  - highlighter type smear or blurred text
  - optimized to prevent black to color bleed

### Color Inkjet print cartridge

51650(C) (M) (Y) Color Cartridges

OR

51640A for black

- Dye-based.
- High quality color CAD output on plain bond paper with a lower cost per page.
- Designed specifically for use with HP special Inkjet paper.

## Memory information

The HP Designjet 650C printer has 4 megabytes (MB) of standard on-board RAM. A PostScript ROM SIMM and MIO card are optional. There are two RAM expansion slots which can hold optional 2 MB, 4 MB, 8 MB, 16 MB or 32 MB single in-line memory modules (SIMMs). The maximum expandable RAM is 64 MB additional, or a total of 68 MB. (Before the introduction of the Model B printer and the 16 and 32 MB SIMMs, maximum expandable memory for the Model A printer was 20 MB as specified in the *User's*

The HP Designjet 650C/PS printer comes pre-installed with 4 MB of standard on board RAM, a PostScript ROM SIMM and Jetdirect MIO card and requires a minimum of 4 MB additional memory or a total of 8 MB.

## Performance

### "Normal" printer use

"Normal" printer use means less than:

- 40 pages per day (if medium-density E/A0 CAD plots), or
- 10 pages per day (if medium-density E/A0 image prints)

The reliability of the HP Designjet 650C printer will be maximized by maintaining an output volume within 40 EA0-size plots per day on average. The HP Designjet 650C printer can support the occasional need for up to 100 plots per day, but the regular use of the HP Designjet 650C printer above an average of 40 plots per day may result in increased maintenance requirements.

Producing more than 40 E/A0-size plots per day and/or changing the most frequently used pen cartridge (generally the black) more than once every 3.5 days, is working the HP Designjet 650C printer at above average conditions which will result in increased maintenance requirements.

A plot counter is contained in the EEROM of the printer, the contents of which can be seen by performing a Configuration Plot from the front panel. For all 'A' models and 'B' models below firmware rev. 5.11 the plot counter only reflects non-PostScript plots. For 'B' models starting with firmware rev. 5.11, both PostScript and non-PostScript files are counted. The value is listed in hexadecimal format on line 0 of the EEROM map at the bottom of the Configuration plot, in columns c, d, and e. The count is displayed in reverse order and must be reversed when determining the number of plots.

### To print the configuration plot

1. Make sure media is loaded.
2. In the **Full Menu** mode, choose **Utilities** .
3. Choose **Config Plot** option and press ENTER.

## Physical specifications

	Weight	Length	Width	Height
D-size	07.6 kg (128 lb)	1079 mm (54.0 inches)	711 mm (28.0 inches)	1149 mm (45.25 inches)
E-size	69.75 kg (155 lb)	1371 mm (42.2 inches)	711 mm (28.0 inches)	1200 mm (47.25 inches)
D-size, body only (shipping weight)	50.0 kg (110.2 lb)			
E-size, body only (shipping weight)	60.0 kg (132.2 lb)			
D-size, legs and bin (shipping weight)	21.0 kg (46.3 lb)			
E-size, legs and bin (shipping weight)	26.0 kg (57.3 lb)			

## Electrical specifications

Source	100–240V AC +/-10%.
Frequency	47 - 63 Hz
Power consumption	140 W (2.0 A max.)

## Environmental specifications

### Operational

Mechanical and electrical:	0 to 55 degrees C (32 to 131 degrees F) @ 20-80% relative humidity
----------------------------	---

With cartridges and media: 15 to 35 degrees C (59 to 95 degrees F)

@ 20–80% relative humidity

For optimal print quality and media handling: 15 to 30 degrees C (59 to 86 degrees F)

@ 20–80% relative humidity

## Storage

Printer and media –40 to 70 degrees C (–40 to 158 degrees F)

@ 5-95% relative humidity

Cartridges - black –40 to 60 degrees C (–40 to 104 degrees F)

Cartridges - color –40 to 70 degrees C (–40 to 158 degrees F)

## Processor

Intel 80960, 32-bit RISC

## Warranty

### One-Year On-Site, Next Day Hardware Warranty

Except when purchased as part of a system, Hewlett-Packard warrants your graphics peripheral hardware product against defects in materials and workmanship for a period of one year from receipt by the end user (proof of purchase required). If HP receives notice of such defects during the warranty period, HP will either, at its option, repair or replace products which prove to be defective.

Should HP be unable to repair or replace the product within a reasonable amount of time, customer's alternative exclusive remedy shall be refund of the purchase price upon return of the product.

If this product was purchased as part of an HP system in a coordinated shipment or as a system add-on, it is warranted against defects in material and workmanship during the same period as the HP system.

## Safety certifications

- CSA 22.2 No. 950 certified
- UL 1950 listed
- NEMKO TSE (74)DK203/92 approved
- NOM certified
- EN 60950 compliant

### Content feedback

To help us improve our content, please provide your feedback below.

1. How does the information on this page help you?

- very helpful  somewhat helpful  not helpful

2. Was it easy to find this document?

- easy  not easy

3. If you selected not easy for question 2, in which section did you expect to find it?

4. Comments:

Submit »

- Your feedback will be used to improve our content. Please note this form is for feedback only, so you will not receive a response.

- [Contact HP](#) if you need technical assistance.

» [Return to original page](#)

[Privacy statement](#)

[Using this site means you accept its terms](#)

[Feedback to webmaster](#)

© 2012 Hewlett-Packard Development Company, L.P.