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## Printer and Paper Specifications

This appendix provides the physical, functional, and performance specifications for your mobile printer. It also contains detailed paper specifications.

### Physical Specifications

**Dimensions** (vertical orientation)

Height: 311 mm (12.25 in.)  
Width: 444.5 mm (17.5 in.)  
Depth: 166.6 mm (6.5 in.)

Enclosure is injection molded plastic with hinged cover for access to paper loading, print head and ribbon replacement. Enclosure provides edge for paper to tear off.

<b>Color</b>	Night Sky Grey
<b>Weight</b>	Not to exceed 8.02 kg (17.7lbs)
<b>Power requirements</b>	Automotive, 12 VDC (10.5 – 18 VDC)) 110/220 VAC as option
<b>Power consumption</b>	Not to exceed 150 Watts
<b>Heat generation</b>	Average 65 kcal/h
<b>Interface and connectivity</b>	USB2.0 full speed, RS232 and Blue Tooth Class 2 ver1.2 (Standard) IEEE 802.11b (Option)
<b>Data buffer size</b>	64K bytes
<b>Operating environment</b>	-4°F +140 °F (-20 °C to + 60°C) DC -4°F to +113° F (-20°C to + 45°C)AC 10% - 85% Relative Humidity, no condensation
<b>Storage</b>	-22°F + 158°F (-30°C to + 70°C) 05% - 95% Relative Humidity, no condensation

## Printer and Paper Specification

<b>Shock, Vibration, Acceleration</b>	Units may be vertically mounted using shock mounts to a bracket installed in a vehicle; operated horizontally while located on a passenger seat in a vehicle, or operated in office environments.
<b>Operating</b>	Vibration resistance (as tested) Acceleration 0.5G Frequency 5 to 55HZ Sweep Time 120 Sec/Cycle
<b>Non-Operating</b>	Acceleration 1.5G RMS Frequency 5 to 55HZ Sweep Time 120 Sec/Cycle
<b>Impact Resistance</b>	Operating 3G (print quality not guaranteed) Non-operating 10G
<b>Dust Proof, Corrosion Resistance</b>	Ingress Protection (IP) rating IP30. No special protection against fluids or immersion.

## Functional Specifications

<b>Print method</b>	Impact dot matrix with a 0.2 mm (0.009 in), 24-wire head
<b>Print direction</b>	Bidirectional logic-seeking
<b>Character cell</b>	Horizontal X vertical Letter (10 cpi): 36 X 24 dots Letter (12 cpi): 30 X 24 dots Draft:: 12 X 24 dots

**Paper handling**

Single Forms: With the Paper Path Select Lever in the Single Sheet position, single sheets or forms may be used. The printer automatically senses that paper has been manually inserted. When paper is detected, the printer will advance the form to the first print line.

Continuous forms: With the Paper Path Lever set to the Continuous Form position, continuous forms may be printed. Paper is loaded and adjusted via pushbuttons. Forms may be advanced to tear off feature by operator or by host. Continuous forms are parked while single sheets are used.

**Paper type** 1-to 4-part side-glued or paper-stapled fanfolded continuous forms or single page top-glued forms.

**Paper size**

Continuous	Width:	102–267 mm (4–10.5 in)
	Length:	102 mm (4 in) or greater
Cut sheets	Width:	102–267 mm (4–10.5 in)
	Length:	76–364 mm (3–14.3 in)

**Paper thickness** Up to 0.35 mm (0.014 inch)

**Paper length**

By software	Programmable in one line or inch increments
By control panel	3, 3.5, 4, 5.5, 6, 7, 8, 8.5, 11 (Letter), 11 2/3 (A4), 12, 14, or 15 inches (Default is 11 inches.)
	1 to 126 lines

**Number of copies** Up to 4, including the original

**Command sets** Epson EP2  
(emulations) IBM 2390+

# Printer and Paper Specification

## Character sets

### Code Page

19 character sets  
CP 437 (USA)  
CP 437 (Greek)  
CP 850 (Multilingual)  
CP 851 (Greek)  
CP 852 (East Europe)  
CP 853 (Turkish)  
CP 855 (Cyrillic)  
CP 857 (Turkish)  
CP 858 (Multilingual)  
CP 860 (Portugal)  
CP 862 (Israel)  
CP 863 (Canada)  
CP 864 (Arabic)  
CP 865 (Norway)  
CP 866 (Cyrillic)  
CP 869 (Greek)  
CP 920 (Latin-5)  
CP 923 (Latin-9)  
USSR GOST

### EPSON National Character

15 character sets  
USA                      France                      Germany  
UK                        Denmark 1                  Sweden  
Italy                      Spain 1                      Japan  
Norway                  Denmark 2                  Spain 2  
Latin America        Korea                        Legal

## Fonts

### Resident

13 fonts available  
Draft, Roman, Sans Serif, Courier, Bold, Prestige Elite,  
Script, Orator, Gothic, OCR A, OCR B, Roman T  
and Sans Serif H

## Line spacing

2, 3, 4, 6, 8, or 12 lines per inch.  
(1, 2, or 4 lines per centimeter).

## Character pitch

10, 12, 15, 17.1 or 20 characters per inch

## Characters per line

10 cpi: 80 cpl  
12 cpi: 96 cpl  
15 cpi: 120 cpl  
17.1 cpi: 136 cpl  
20 cpi: 160 cpl  
cpl = characters per line

**Barcodes**

IBM: 9 Barcodes available  
UPC/A, UPC/E, EAN8, EAN13, CODE39, CODE128  
CODABAR (NW7), INTERLEAVED 2 of 5,  
INDUSTRIAL 2 of 5  
EPSON: 7 Barcodes available  
UPC/A, UPC/E, EAN8, EAN13, CODE39, CODE128  
INDUSTRIAL 2 of 5

**Performance Specifications**

**Print speed**  
Draft: 10 cpi 12 cpi  
400 cps 480 cps  
Letter: 133 cps 160 cps

cpi = characters per inch  
cps = characters per second

**Line feed speed** 60 ms per line at 6 lines per inch

**Form feed speed** 7 inches per second

**Pages per Hours** ECMA 132 Letter Test Pattern  
Draft Quality 321 pph  
Letter Quality 172 pph

**Ribbon service life** 2 million characters

**Printer Life** 5 million lines or five years

**Print Head Life** 400 million impacts

**MTBF** 15,000 hours (50 hr/week power-on, 5% power on print duty cycle)

**MTTR** 0.5 hours

## Printer and Paper Specification

### **Certification**

Safety:

**Regulation**

UL 1950-D3 (for 100-120 VAC)  
CSA C22.2/950 (for 100-120 VAC)  
EN 60 950 (for 220-240 VAC)

**Country**

United States  
Canada  
Germany

RFI regulation:

**Regulation**

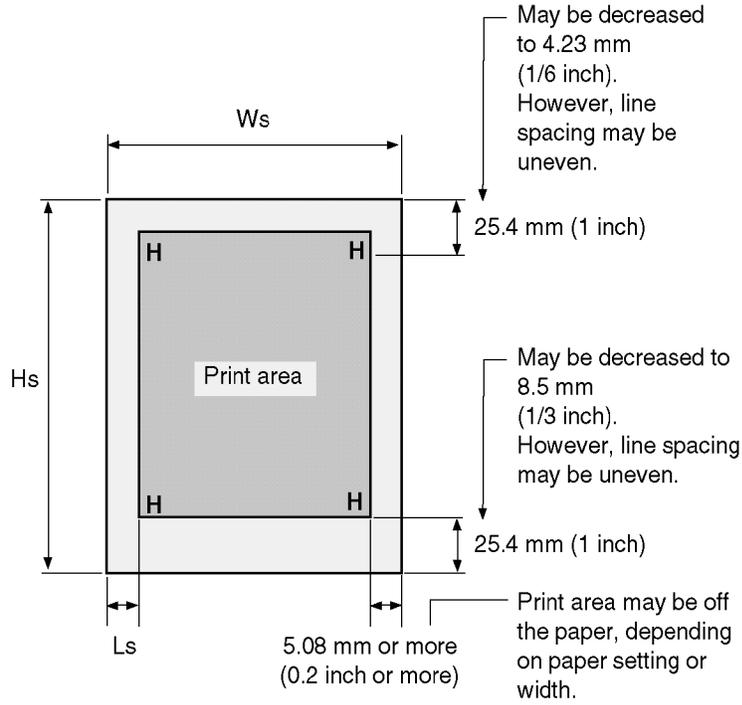
Class B of FCC Part 15B  
(for 100-120 VAC)  
CE mark (for 220-240 VAC)

**Country**

United States  
European Union



# Printer and Paper Specification



## Print Area for Single Sheets

Ws	102 to 267 mm (4 to 10.5 in)
Hs	76 to 364 mm (3 to 14.3 in)
Ls	5.08 to 32 mm (0.2 to 1.26 in)

**Paper Thickness**

Paper thickness is given by the weight of the paper in either grams per square meter (g/m<sup>2</sup>) or in pounds per bond (lbs/bond). The following table shows the allowable paper thickness for one-part paper or for each sheet of multipart paper. The total thickness must not exceed 0.35 mm (0.014 inch).

The weight of carbonless or carbon-backed paper may vary, depending on the paper manufacturer. When using paper of borderline thickness, test the paper before running a job.

Type of Paper	Number of Parts	Thickness
One-Part Carbonless	Single	47-81 g/m <sup>2</sup> (40-70 kg or 12-22 lb)
Two-Part Carbonless	Top	40-64 g/m <sup>2</sup> (34-55 kg or 11-17 lb)
	Bottom	40-81 g/m <sup>2</sup> (34-70 kg or 11-22 lb)
Three-Part Carbonless	Top	40-64 g/m <sup>2</sup> (34-55 kg or 11-17 lb)
	Middle	40-64 g/m <sup>2</sup> (34-55 kg or 11-17 lb)
	Bottom	40-81 g/m <sup>2</sup> (34-70 kg or 11-22 lb)
Four-Part Carbonless	Top	40-64 g/m <sup>2</sup> (34-55 kg or 11-17 lb)
	Middle	40-64 g/m <sup>2</sup> (34-55 kg or 11-17 lb)
	Middle	40-64 g/m <sup>2</sup> (34-55 kg or 11-17 lb)
	Bottom	40-81 g/m <sup>2</sup> (34-70 kg or 11-22 lb)

kg: Weight in kilograms of 1000 sheets of 788 X 1091 mm paper (1.16 g/m<sup>2</sup>)

lb: Weight in pounds of 500 sheets of 17 X 22 inch paper (3.76 g/m<sup>2</sup>)

Type of Paper	Number of Parts	Thickness
Two-Part Carbon-Backed	Top	40-64 g/m <sup>2</sup> (34-55 kg or 11-17 lb)
	Bottom	40-81 g/m <sup>2</sup> (34-70 kg or 11-22 lb)
Three-Part Carbon-Backed	Top	40-64 g/m <sup>2</sup> (34-55 kg or 11-17 lb)
	Middle	40-64 g/m <sup>2</sup> (34-55 kg or 11-17 lb)
	Bottom	40-81 g/m <sup>2</sup> (34-70 kg or 11-22 lb)
Four-Part Carbon-Backed	Top	40-64 g/m <sup>2</sup> (34-55 kg or 11-17 lb)
	Middle	40-64 g/m <sup>2</sup> (34-55 kg or 11-17 lb)
	Middle	40-64 g/m <sup>2</sup> (34-55 kg or 11-17 lb)
	Bottom	40-81 g/m <sup>2</sup> (34-70 kg or 11-22 lb)

Carbon-backed *Do not use in high humidity environments.*

Carbon-interleaved *Avoid using single sheets format in carbon-interleaved.*

## Printer and Paper Specification

Type of Paper	Number of Parts	Thickness
Two-Part Carbon-Interleaved	Top	40-64 g/m <sup>2</sup> (34-55 kg or 11-17 lb)
	Carbon Bottom	Counted as one sheet 40-81 g/m <sup>2</sup> (34-70 kg or 11-22 lb)
Three-Part Carbon-Backed	Top	40-64 g/m <sup>2</sup> (34-55 kg or 11-17 lb)
	Carbon Middle	Counted as one sheet 40-64 g/m <sup>2</sup> (34-55 kg or 11-17 lb)
	Carbon Bottom	Counted as one sheet 40-81 g/m <sup>2</sup> (34-70 kg or 11-22 lb)

kg: Weight in kilograms of 1000 sheets of 788 X 1091 mm paper (1.16 g/m<sup>2</sup>)

lb: Weight in pounds of 500 sheets of 17 X 22 inch paper (3.76 g/m<sup>2</sup>)