
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.

Color Night Sky Grey

Weight Not to exceed 8.02 kg (17.7lbs)

Power requirements Automotive, 12 VDC (10.5 – 18 VDC))
110/220 VAC as option

Power consumption Not to exceed 150 Watts

Heat generation Average 65 kcal/h

Interface and connectivity USB2.0 full speed, RS232
and Blue Tooth Class 2 ver1.2 (Standard)
IEEE 802.11b (Option)

Data buffer size 64K bytes

Operating environment -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

Storage -22°F + 158°F (-30°C to + 70°C)
05% - 95% Relative Humidity, no condensation

Shock, Vibration, Acceleration

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.

Operating

Vibration resistance (as tested)

Acceleration 0.5G

Frequency 5 to 55HZ

Sweep Time 120 Sec/Cycle

Non-Operating

Acceleration 1.5G RMS

Frequency 5 to 55HZ

Sweep Time 120 Sec/Cycle

Impact Resistance

Operating 3G (print quality not guaranteed)

Non-operating 10G

Dust Proof, Corrosion Resistance

Ingress Protection (IP) rating IP30. No special protection against fluids or immersion.

Functional Specifications

Print method

Impact dot matrix with a 0.2 mm (0.009 in),

24-wire head

Print direction

Bidirectional logic-seeking

Character cell

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	10 cpi 12 cpi Draft: 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
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Ribbon service life	2 million characters
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Printer Life	5 million lines or five years
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Print Head Life	400 million impacts
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MTBF	15,000 hours (50 hr/week power-on, 5% power on print duty cycle)
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MTTR	0.5 hours
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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

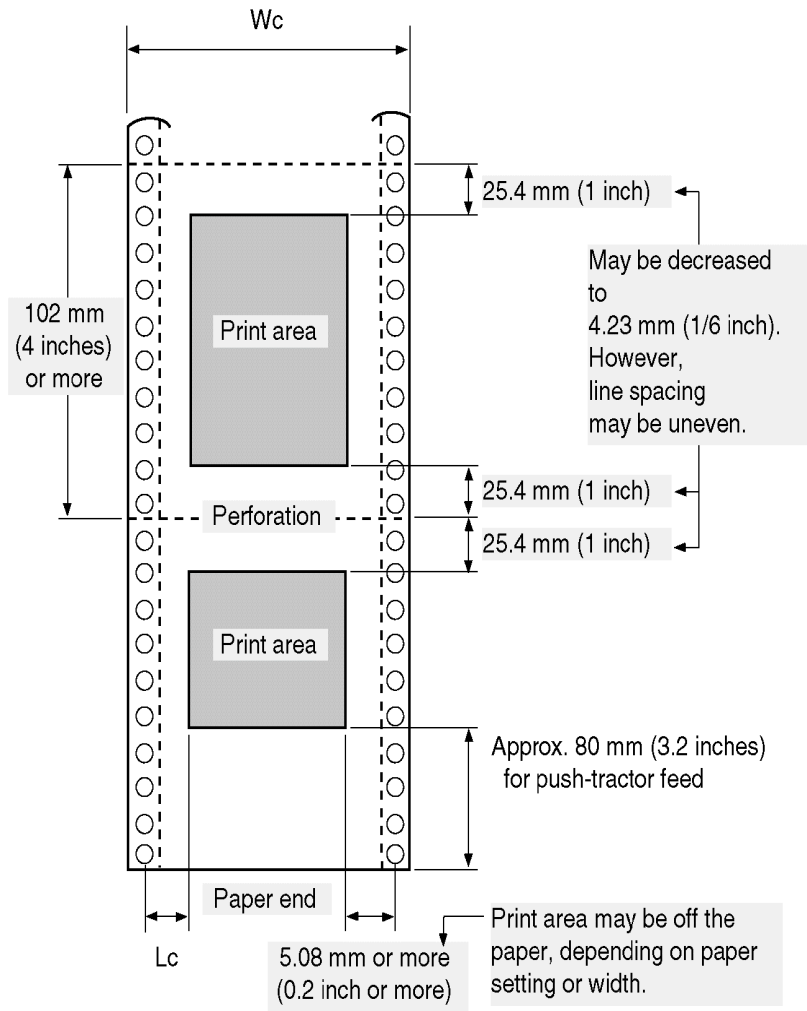
Class B of FCC Part 15B
(for 100-120 VAC)
CE mark (for 220-240 VAC)

Country

United States
European Union

Paper Specifications

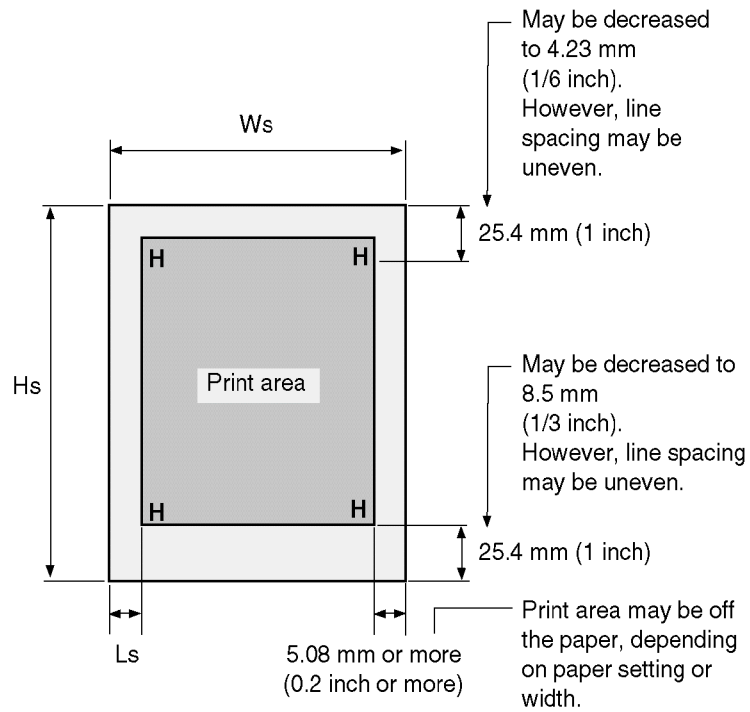
Print Area



Print Area for Continuous Forms

W_c	102 to 267 mm (4 to 10.5 in)
L_c	5.08 to 25.4 mm (0.2 to 1 in)

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^2) 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^2 (40-70 kg or 12-22 lb)
Two-Part Carbonless	Top Bottom	40-64 g/m^2 (34-55 kg or 11-17 lb) 40-81 g/m^2 (34-70 kg or 11-22 lb)
Three-Part Carbonless	Top Middle Bottom	40-64 g/m^2 (34-55 kg or 11-17 lb) 40-64 g/m^2 (34-55 kg or 11-17 lb) 40-81 g/m^2 (34-70 kg or 11-22 lb)
Four-Part Carbonless	Top Middle Middle Bottom	40-64 g/m^2 (34-55 kg or 11-17 lb) 40-64 g/m^2 (34-55 kg or 11-17 lb) 40-64 g/m^2 (34-55 kg or 11-17 lb) 40-81 g/m^2 (34-70 kg or 11-22 lb)

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

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

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

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