

- **EN** For pricing and availability in your local country please visit one of the below links:
- **DE** Informationen zu Preisen und Verfügbarkeit in Ihrem Land erhalten Sie über die unten aufgeführten Links:
- FR Pour connaître les tarifs et la disponibilité dans votre pays, cliquez sur l'un des liens suivants:

<u>M150</u>

EN

This Datasheet is presented by the manufacturer

DE

Dieses Datenblatt wird vom Hersteller bereitgestellt

FR

Cette fiche technique est présentée par le fabricant



2005-2006

Printing Product Guide

Mini Printer Mechanism **MPM** Embedded Unit **EU**

Standard

The history for Epson is, in a sense, a history of standards. Epson unveiled the world's first miniprinter, for calculators, all the way back in 1968. And for more than three decades Epson has used its outstanding engineering ability and know-how to turn innovative ideas into creative, useful products. We at Epson have always believed that communicating with customer is critical. We listen to your voices, uncover your needs, and develop products and proposals designed to earn true customer satisfaction. Epson has created, and will continue to create new, industry-leading standards. Best Printing Solution for Your Needs.



with an extensive lineup of products. Our commitment to innovation and to our customers is backed up by a network of sales and service support offices around the globe. Each site stays in close contact with customers and share a variety of information and know-how. We offer you're the best printing solution by closely monitoring the latest market trends and building highvalue-added products that directly address your needs.



EPSON Roots

Epson's first major product was a digital watch featuring micromechatronics and electronic technology. This was followed by a printing timer used as the official timekeeper at the 1964 Olympics. Four years later there came the EP-101, the world's first electronic calculator mini printer. This ultra-compact printer was a huge hit worldwide and heralded the start of Epson's multi-faceted business expansion, giving rise to many other products or "sons". Actually, the name EPSON is a combination of the EP from the EP-101 and SON. EPSON. A name associated with cutting-edge, high quality products around the world.

Co-Existence



In line with its commitment to maintaining harmony with nature, Epson has implemented a wide range of measures to protect the environment. These began more than ten years ago, with the declaration that the company would stop using CFCs. Other examples include the reduction of CO₂ emissions at factories and facilities, reduction of waste materials, and recycling.

This careful attention to the environment has enabled a number of Epson factories to acquire ISO14001 certification.

Quality

Unrivalled Quality

All Epson products have one thing in common – outstanding quality. This is the result of the careful attention we pay to customers' particular requirements. Thanks to this superior quality, Epson was the first mini printer manufacturer to acquire accreditation for ISO9001, the strictest of the ISO9000 international quality standards, covering every aspect of quality control, from quality assurance systems to services. ISO9001 compliance is just another example of the measures Epson takes to bring you total product satisfaction.

S MOS Systems Inc. U.S. Epson Inc. Epson Electronics America, Uz. Epson Canada Ud. Epson America Inc. Epson Axmerica Inc. Epson Latin America Inc. Epson Venezuela S.A. Epson Colombia Uda. Epson Costa Rica S.A. Epson Assica, S.A. de C.V. Epson Assica S.A. Epson Assica Industria el Comercio Ud Epson Argentina S.A. Epson Chile S.A.

Epson Korea Co., Jud. Seiko Epson Corporation Korea Offic JAPAN Seiko Epson Corporation Beijing Representative Office Epson (China)Co., Ital. Epson New Zelaland Ital. Epson New Zelaland Ital.

Epson Tawan Technology&Trading Ltd. Epson Piong Kong Ltd. Epson Philippines Corporation Epson Electronics (Thailand)Co.,Ltd. Epson Trading (Malaysia)Sdn. Bhd. Epson Siragapore Pite Ltd

Best Printing Solution for Your Needs

Epson's extensive line of Thermal and Impact (both serial dot and shuttle dot) printers cover a wide range of user needs. Our models range from compact, low-power units on the low end to powerful, heavy-duty units on the high end. From such applications as Hand-held terminals, CAT/EFT, ATM/CD, and Kiosks etc., we fully answer your most advanced needs.



Epson Printing Technologies



The history of the impact printer began more than thirty years ago, with the EP-101. Over the decades, impact printers have steadily evolved. Never complacent as the frontrunner, Epson has continued to innovate and refine its impact printer technology. Our impact models are highly reliable, cost effective, and compact. These characteristics have helped Epson win an overwhelming and lasting share of the business printer market.

Thermal

The advanced technology, know-how, and experience Epson gained in impact printing has been transferred to a mastery of thermal printing. Like our impact printers, our thermal printers boast extremely high reliability, an Epson hallmark. Add to that the quiet operation and attractive print of the thermal printer line, and it is easy to see why these products continue to rapidly grow into new applications in a variety of fields.

Inkjet

Widely acknowledged as the ideal for printing high quality color images from a PC, inkjet technology offers customer benefits such as fast, silent, graphic-rich printout. Even more interesting is the fact that inkjet printers can use plain paper rolls, and offer the possibility of color output. Epson's expertise in inkjet technology, combined with its understanding of the demands of the customer's environment, means that it is in a unique position to meet this challenge.

You Can Get The Ideas and Power in Epson Mini Printers

Embedded Unit and Mini Printer Mechanism let you easily create new system architecture for a wide range of applications and technologies. Just look on the charts, and you can find the best one.

				Appli	cation Exa	mples				
		Hand-held terminal	CAT/EFT	ECR/POS	Ticket machine	ATM/CD	Kiosk	Lottery machine	Models	
	m R								EU-T300 Series	10
	Ibed								EU-T400 Series	11
	Embedded Unit								EU-T500 Series	12
	Jnit								M/BA-T500 Series	13
									M-T200 Series	16
	The								M-T5111/T5311/T123	17
S	Thermal								M/BA-T100 Series	18
Mini Printer Mechanism									M-T245	18
inter									M-150II	19
Mec									M-190/190G Series	19
hanis	Impact								M-U110 Series	20
ŝ	act								M-780	21
									M-U420 Series	21
									M-290	22

MBEDDED UNI

Epson Embedded Units offer a whole new dimension of self-service terminal design. They feature high printing speeds, high quality and reliability, a wide variety of module configuration selections, an original Epson Advanced Printer Drivers, and many new ideas and functions. Epson Embedded Units are sure to provide you with a rich environment for self-service terminal design innovation in both hardware and applications.

EU-T300 Series









M/BA-T500 Series

Epson Advanced Printer Drivers

Epson advanced printer drivers make it easy. Available for Windows® 2000 / XP, and Linux®, the ever-adaptable Epson advanced printer drivers make it so easy to develop applications software, saving you time and money. And that's not all. In addition to printer drivers, the Epson Advanced Printer Drivers help keep your system running with an invaluable status monitor and maintenance counter. Allowing you to check the current status of your equipment, the status monitor is an essential tool that helps you to monitor consumables and solve errors. And for remote terminal use, Epson provides software that allows printer status monitoring from the PC side. The maintenance counter, on the other hand, informs you of operating data about parts such as the autocutter, retractor and print head. This reduces time by helping you determine when maintenance is needed - before it is needed. Epson advanced printer drivers for efficient system operation.

Solution proposal from Epson

ATM

- Big paper roll diameter (Max. 10 inches)
- Durable and reliable
- Flexibility in placement











EU-T500 Series

Solution proposal from Epson





Solution proposal from Epson



EU-T300 Series (EU-T312/T322/T332/T342)







Compact and Easy Operation

Compact

Epson uses modular components to build a Kiosk system that's perfect for your unique application. Simple components (printer module, control board module, and compact paper roll supply module) fit into various Kiosk terminals.

Selectable paper sizes

Terminal manufacturers can adjust the unit to meet their specific needs. Paper width (57.5 mm, 59.5 mm, 79.5 mm, or 82.5 mm) and paper diameter (6" or 4") can be selected as desired. And paper rolls with the print face either outside or inside can be used.

<paper diameter>

(4" type)

<print face>



Variety of autocutter functions

A durable autocutter is standard equipment and selectable from full cut type, partial cut type (1 point left uncut), or high-speed full cut type.

(6" type)

Full front operation

User-friendly full front operation enables easy paper handling and maintenance because the power switch, paper feed button, and LED are all located on the front.

Worry-free paper handling

It's simple to replace the paper roll with the EU-T300 series. You can open the printer module with one hand and insert the paper roll easily and surely using the semiautomatic loading function. These functions save recovery time and increase the speed of maintenance.

Adaptable graphics printing

Text, barcodes, logos and Windows® fonts can all be printed with ease. Embellish and emphasize with underlining, enhancement, 90° rotation, black and white reversing and enlargement.

Asian language options

Chinese (simplified and traditional), Korean, and Japanese fonts are available as factory options for local markets.

SPECIFICATIONS

	E (1) Te (e)	T 1 T 2 2 2	T 11 T 000	
	EU-T312	EU-T322	EU-T332	EU-T342
Paper Dimensions	57.5 ± 0.5 mm x dia. 152.4 mm max.	59.5 ± 0.5 mm x dia. 152.4 mm max.	79.5 ± 0.5 mm x dia. 152.4 mm max.	82.5 ± 0.5 mm x dia. 152.4 mm max.
Printing Method		Therm	nal line	
Paper Path Straight				
Interface	nterface RS-232 / IEEE 1284 Bi-directional parallel / USB			
Print Speed (Max.)	Speed (Max.) 150 mm / sec.			
Paper Thickness	hickness 0.06 ~ 0.15 mm			
Power	24 VDC ± 2.4 V			
Reliability				
MCBF		Mechanism : 3	7,000,000 lines	
Printer life	Mechanism : 15,000,000 lines, Thermal head : 100 km (62.14 miles)		es)	
Overall Dimensions	mensions 153 (W) x 236.4 (D) x 149.8 (H) mm (6" type)			
Mass	Approx. 2.5	kg (6" type)	Approx. 2.6	kg (6" type)
*Please contact your Epson rep	resentative for unit configuration			

*Please contact your Epson representative for unit configuration.



EU-T400 Series (EU-T412/T422/T432/T442)





Efficiency and versatility

Compact

Designed to fit into terminals of all sizes, compact dimensions and a small footprint make the EU-T400 series perfect for smaller terminals. And with the paper roll inside, the dimensions are almost the same.

High-speed and versatile printing

The EU-T400 series allows faster transactions for customers with the highest printing speed in its class. Text, barcodes, logos and Windows[®] fonts can all be printed with ease. Users can adjust the paper size by simply changing the printer and paper guide.

Front operation

Downtime is reduced with paper loading, maintenance and sensor adjustments carried out at the front.

Worry-free paper handling

It's simple to replace the paper roll with the EU-T400 series. A semiautomatic loading function saves recovery time and increases the speed of maintenance.









Highly durable

High durability reduces cost of ownership. The EU-T400 series allows printing of up to 300,000 receipts.

Asian language options

Chinese (simplified and traditional), Korean, and Japanese fonts are available as factory options for local markets.

	EU-T412	EU-T422	EU-T432	EU-T442
Paper Dimensions	$57.5\pm0.5\text{mm}$ x dia.203mm max	$59.5\pm0.5 mm$ x dia.203mm max	$79.5\pm0.5mm$ x dia.203mm max	$82.5\pm0.5\text{mm}$ x dia.203mm max
Printing Method		Therm	al line	
Paper Path		Stra	light	
Interface		RS-232 / IEEE 1284 Bi-0	directional parallel / USB	
Print Speed		150 mr	n/sec.	
Paper Thickness		0.06~0	.15 mm	
Power		24 VDC	± 2.4 V	
Reliability				
MCBF		Mechanism : 3	7,000,000 lines	
Receipt printing		300,00	0 times	
Printer life		Mechanism: 15,000,000 lines, Th	ermal head: 100 km (62.14 miles)	
Overall Dimensions		194.7 (W) x 170.6 (D)	x 350 (H) mm (8" type)	
Mass		Approx. 3.9	kg (8" type)	
*Please contact your Ep	son representative for unit configura	tion.		

EU-T500 Series (EU-T532/T542)



High Reliability and Security

High reliability - MCBF: 37 million lines

Epson's superb reliability provides long-term maintenance-free operation with an MCBF of 37 million lines.

Automatic retracting function

The optional Cut Sheet Retracting Module can prevent loss of personal data and enables safer coupon and receipt issuing.

High speed printing

The EU-T500 series achieves very fast throughput. The highest printing speed is an incredible 150mm/sec., even with graphics.

Large-diameter roll paper available - up to 254 mm (10")

TCO can use 254 mm (10") diameter roll paper, which reduces the frequency of paper replacement.

Worry-free paper handling

Semi-automatic paper loading enables easy and fast replacement of paper rolls. Also, the printer module and cut sheet retracting function have opening mechanisms for easy maintenance.









Flexible module configuration

For the best self-terminal design, this offers the choice of the paper roll supply modules and the cut sheet retracting function to meet customer needs and environmental requirements.

Asian language options

Chinese (simplified and traditional), Korean, and Japanese fonts are available as factory options for local markets.

SPECIFICATIONS

	EU-T532	EU-T542
Paper Dimensions	79.5 \pm 0.5 mm x dia.254 mm max.	82.5 ± 0.5 mm x dia.254 mm max.
Printing Method	Therm	nal line
Paper Path	Stra	aight
Interface	RS-232 / IEEE 1284	Bi-directional parallel
Print Speed	150 mr	m / sec.
Paper Thickness	0.06~0	.15 mm
Power	24 VDC	2 ± 2.4 V
Reliability		
MCBF	Mechanism : 3	7,000,000 lines
Receipt printing	600,00	0 times
Printer life	Mechanism: 15 x 10 ⁶ lines / The	rmal head: 100 km (62.14 miles)
Overall Dimensions	176 (W) x 520.7 (D) x 231.4	4 (H) mm (Full modular type)
Mass	Approx. 5.5 kg (F	Full modular type)

*Please contact your Epson representative for unit configuration.

M/BA-T500 Series





RS-232 / IEEE1284 Type



USB Type

Standard high performance thermal printer

Super-fast printout

The blazingly fast M-T500 series prints up to 150 mm (5.9") per second. These Chinese (simplified and traditional), Korean, and Japanese fonts are available printers also deliver fast throughput even in Full-Graphic Mode (uses BA-T500). as factory options for local markets.

Flexible paper choice for various applications

These printers can easily handle thick paper and tickets. They can also handle DC 12 V operation is possible through a standard power source for PC large diameter paper rolls of up to 254 mm (10") with an additional feed assist environments by using M-T505 / BA-T505. mechanism.

Three types of paper path

Curved, straight and drop-in paper paths are available.

Standard autocutter

A durable autocutter is standard equipment. Sharp and reliable, the autocutter can even be used for heavy paper. There are two models of autocutter available: a full-cut model and a partial-cut (1 point left uncut) model. A high-speed cutter is also available.

Standard interface

RS-232 serial, IEEE 1284 Bi-directional and USB interfaces are also available in separate models for direct connection to standard PCs.

PS-180 available

By attaching the optional connector cable unit DC-T500, the printer works with the PS-180 power supply unit.

Asian language options

DC12 V operation

BA-T500 / BA-T505 SPECIFICATIONS

Supported Printer	M-T500 Series	M-T505 Series			
Printing Speed	150 mm / sec. max.	100 mm / sec. max.			
Printing Character	Text (Euro Symbol availa	able), Barcode, Graphics			
Barcode Type	UPC-A, UPC-E, EAN 13	(JAN), EAN 8(JAN), ITF,			
	CODE 39, CODABAR, C	ODE 93 and CODE 128,			
	Two-dimentional code: PDF417				
Interface	RS-232 / USB /	RS-232 /			
	IEEE 1284 Bi-directional parallel	IEEE 1284 Bi-directional parallel			
Operating Temperature	0 to 55 °C				
Driver	Windows [®] 2000, XP, Linux [®]				
Operating voltage	24 VDC ± 10%	10~16 VDC			
Other Function					
HEX dump	User can use Hexadecimal dump print for debugging				
Self-test	Configuration printout and test pattern				
Download	Flash ROM (graphics)				

SPECIFICATIONS

	M-T511A*	M-T512A*	M-T513A*	M-T521A*	M-T522A*	M-T523A*	M-T531A*	M-T532A*	M-T532HF*	M-T537A*	M-T533A*	M-T541A*	M-T542A*	M-T542HF*
Paper Width	5	7.5 ± 0.5 m	m	5	9.5 ± 0.5 m	m		7	9.5 ± 0.5 m	m		8	2.5 ± 0.5 m	im
Paper path	Curve	Straight	Drop in	Curve	Straight	Drop in	Curve	Straight	Straight	Straight	Drop in	Curve	Straight	Straight

Note: Autocutter is selectable as follows; AF: full cut type, AP: partial cut type HF: High Speed Cutter (full cut only) See the specifications on page 23 for details.

OPTIONS



The DC-T500 enables the printer to use power supply unit PS-180. By attaching the connector cable unit DC-T500, you can use the Epson standard power supply unit PS-180. This means that you do not have to design a new power supply unit for the EU and BA series by yourself.





Paper Near End Sensor Available

Paper near-end sensor unit connects to the EU-T500 series and EU-T400 series and BA-T500.

Low Paper Supply Detection Function

This highly efficient microswitch informs you when the paper roll is about to run out.



[Impact & Thermal]

Epson confidently offers the most appropriate printer mechanisms for customers' products; they are made through over 30 years experiences with customers in the world. Printing technologies are also well-prepared as the lineup which can be match customers demands.



Solution proposal from Epson



hermal Printers

Thermal printers feature quiet operation and high throughput. Excellent for high-resolution graphics, our thermal printers render beautifully crisp, clear logo marks and barcodes. The simplicity of the paper path mechanism makes paper refills and maintenance easy. Epson offers a wide variety of thermal printers. You're sure to find one for your application needs.

1-STATION PRINTER



Best fit for ECR

Well fitted for ECR application

Through over 30 years experiences in ECR application of mini-printers, M-T203 and T207A are designed to fit ECR usage. Print speed of 100 mm/sec. (M-T207A) is high enough for receipt issuance. Durability of metal frame have ECR's quite reliable.

Drop in, but ease of design

M-T203 and T207A have drop-in paper set mechanism with hinge. Users do not have to be worry about designing drop-in paper set by themselves, you can have best matching in design of paper loading mechanism totally.

Ultra thin autocutter (M-T207A only)

Epson's new autocutter is extremely thin, only 6 mm. It keeps mechanism height as without. Durability of the autocutter is 0.6 million cuts.

	M-T203	M-T207A
Paper Width	57.5 ± 0	0.5 mm
Resolution	8 dots	; / mm
Printing Speed	80 mm / sec. max. (at 24 V)	100 mm / sec. max. (at 24 V)
Voltage	24 VDC	± 2.4 V
Reliability (MCBF)	15,000,0	000 lines
Overall Dimensions	76.9 (W) x 174.5 (D) x 164.8 (H) mm	84.3 (W) x 196.3 (D) x 113.8 (H) mm
Mass	Approx. 350 g (Take-up Paper Holder)	Approx. 410 g (Paper Holder)

1-STATION PRINTER

Thermal Printers





Compact Thermal Printer

Easy-to-read printing

Compared to other thermal printers using the same font, text printed with the M-T51II

/ T53II is larger - and receipts easier for customers

to read.





Effective use of existing resources

With the installation position the same as Epson's best selling printer mechanism, the M-190 series*, there's little need for extensive changes to the terminal casing design.

*Mounting Attachment (factory option) is needed

Sharing of some fonts with the M-190 series is possible (ask your local Epson sales company for details).

Improved lineup

Users have the benefit of a wide range of paper paths, all designed with usability in mind. The drop in mechanism is more convenient than ever before.





LA-T51

SPECIFICATIONS (with LSI)

	LA-T51
Power	5 V \pm 0.25 V (VD), 5 V \sim 7.5 V (VP)
Character	Font A : 12 x24, Font B : 9 x17
Printing	95 Alphanumeric, 37 International, 128 x 3 Graphic
Dimensions	QFP 100 pin
Interface	Parallel Centronics, Serial RS-232C
Support Models	M-T51I / T53I

	M-T51Ⅱ	M-T53Ⅱ	M-T123
Paper Width		$57.5\pm0.5\ \text{mm}$	
Resolution	6 dots	s / mm	8 dots / mm
Printing Speed	52 mm / sec. max. (at 7.5 V)	50 mm / s (at 7	
Voltage		5.0 to 8.0 VDC	
Reliability (MCBF)		15,000,000 lines	
Overall Dimensions	69.15 (W) x 51.2 (D) x 17.3 (H) mm	82.4 (W) x 50.2	(D) x 14 (H) mm
Mass	Approx. 70 g	Appro	x. 65 g

1-STATION PRINTER

Thermal Printers

Thermal Line M/BA-T100 Series



Compact 5 V Thermal Line Printer

Choice of paper path

Both curved and straight paper paths are available, enabling the printer to be laid out in either configuration.

High reliability in a small package

Withstands heavy usage due to its sturdy steel frame. The exceptionally quiet thermal head quickly produces quality text.

Mount-compatible with M-190

Mount-compatible (fixing points), with optional attachment.

5 V autocutter available

Available with a 5 V autocutter option (M-T102A / T103A).

Controls the entire M-T100 series.

The BA-T100C controls the M-T102, T102A, T103 or T103A without changing hardware. Two types of driving voltage (6 V or 12VDC) are available to match market requirements.

Printer driver-ready

The printer driver of the BA-T100C enables users to print barcodes, graphics and text quite easily from the Windows[®] OS.

Multi-language type ready

In addition to the to Alphanumeric standard character set, Japanese (including Kanji), Simplified Chinese and Traditional Chinese are available as factory options.

DC12 V operation

DC 12 V operation is possible through a standard power source for PC environments by using BA-T100C.

2-STATION PRINTER

Thermal Line M-T245



High print quality and high speed

This printer incorporates a high-density line thermal head (8 dots/mm) that ensures high quality printing. It prints faster than dot-matrix printers and makes less operating noise.

Easy paper removal and print head cleaning

The M-T245's print head-lifting mechanism makes both removal of jammed paper and cleaning easy.

Extensive selection of options

Select from an extensive number of options, including an autocutter, to customize the printer for your needs.



mpact Printers

High speed, simultaneous printing of multiple copies, low running costs, easy maintenance: these are just some of the features of impact printers. Impact printers are especially suited to check endorsement and validation applications. With an extensive impact printer product line, Epson can offer you the best model for your application.

1-STATION PRINTER

Shuttle Impact Dot M-150/190 Series 190G Series LA-190G

M-190G

Perfect for compact devices Because they are so compact and require so little power, the M-150II is ideal for numerous printing applications, from handy terminals to laptop computers and compact measuring instruments.

M-150II : Smallest shuttle dot printer in the world

The M-150II of impact dot matrix printers is the world's most compact.

Battery operation

This battery-operated printer runs on extremely low power.

They weigh approx. 60 g yet offer extremely high performance.

Ultra-compact, yet highly reliable

M-190 : Best-selling shuttle dot printers

Faster, stronger

The M-190 series offers even better performance than the M-150 series. A dramatic improvement in printing speed brings new advances to applications such as CAT/EFT and measuring instruments.

High reliability

These printers also offer outstanding reliability for peace of mind.

Compact, lightweight

The series provides high performance in an ultra-compact, lightweight body and support for a wide variety of applications.

M-190G : upgrade from the M-190 series

Clear and speedy printouts

The M-190G series has a higher printing speed than the earlier M-190 series. This impact dot-matrix printer delivers crisp printouts.

Improved handling of poor-quality paper Handles poor-quality paper well.

Capable of accepting ERC-40 long-life ribbon

The M-190G Series accepts the new ERC-40 long-life ribbon, which is capable of printing two million characters.

LA-190G

M-150Π

 Model
 Options

 M-150
 —

 M-190 Series
 Manual feed knob

 M-190G Series
 Manual feed knob

SPECIFICATIONS

	LA-190G
	LA-190G
Power	2.7 to 5.8 V (Topr = -15 to 85°C)
Character	5 x 7 font (alphanumerics, extended graphics, international characters)
Package	LQFP 64 pin
Interface	Serial, Parallel
Support Models	M-150II, M-190 / 191 / 192 / 195, M-190G / 192G

See the specifications on page 25 for details.

M-150	M-150 II			
M-190 Series	M-190	M-191	M-192	M-195
M-190G Series	M-190G	M-192G		

1-STATION PRINTER

Impact Printers

Serial Impact Dot **M-U110 Series**



High-performance printer for ECR and CAT applications

Fast printing

Bi-directional and logic-seeking control are capable of delivering high-speed output of 5.6 lines per second (lps) for 30 columns (58mm) or 4.4 lps for 42 columns (76mm).

Reliability

Boasts superb reliability: MCBF: 9 million lines.

Installed Black Mark detector

The M-U110II has Black Mark detector as standard with variable resistance to perform best Black Mark detection.

Variation of- paper stock

The M-U110 series supports various type of paper stock. M-U110II can handle two paper widths: 58 mm and 76mm. M-U112 is for 58 mm width paper only but has a smaller footprint. M-U111SII is for the very popular sprocket type paper.

Multiple Copy Capability

The M-U110II has the capability to provide one original with one precise copies.



M-U110A

	M-U110I	M-U112	M-U110A	M-U111SⅡ	
Paper Type	Friction			Sprocket	
Paper Width	76.2 \pm 0.7 mm / 57.5 \pm 0.5 mm	57.5 ± 0.5 mm	76.2 \pm 0.7 mm / 57.5 \pm 0.5 mm	$76.2\pm0.7\ \text{mm}$	
Column Capacity	42 columns (76 mm) / 30 columns (58 mm)	30 columns	30 columns 42 columns (76 mm) / 30 columns (58 mm)		
Font	7 x 9				
Printing Speed	4.4 lines / sec. (76 mm) / 5.6 lines / sec. (58 mm)	4.2 lines / sec. 3.3 lines / sec. (76 mm) / 4.2 lines / sec. (58 mm)		5 lines / sec. (76 mm)	
Voltage	24 ± 2.4 VDC				
MCBF	9,000,000 lines	5,000,0	5,000,000 lines		
Overall Dimensions	127 (W) x 96 (D) x 53 (H) mm	108 (W) x 96 (D) x 53 (H) mm	128.6 (W) x 98.8 (D) x 77.3 (H) mm	127 (W) x 96 (D) x 61 (H) mm	
			127.6 (W) x 98.8 (D) x 77.3 (H) mm		
Mass	Approx. 470 g	Approx. 400 g	Approx. 700 g	Approx. 490 g	

2-STATION PRINTER

Impact Printers



Options Validation sensor Near-end sensor Autocutter

Fastest two-station printer

The fastest printing in the two-station printer class The highly reliable M-780 is the fastest printer in the two-station printer class.

Saves end-user's running cost

Helps save end-user running costs by using inexpensive 38-mm roll paper.

Convenient design

Designed with a paper-holding mechanism that prevents paper jams.

SPECIFICATIONS

Paper Width	Roll paper: 37.5 \pm 0.5 mm	
	Validation : 134 mm or more (W) x 70 mm or more (H)	
Column Capacity	18 columns x 2, Validation: 42 columns	
Printing Speed	3.3 lines / sec. (at 24 VDC)	
Voltage	24 VDC ± ^{5%} _{10%}	
MCBF	3,000,000 lines	
Overall Dimensions	135 (W) x 227.7 (D) x 150.5 (H) mm	
Mass	Approx. 1.0 kg	

2-STATION PRINTER

Serial Impact Dot M-U420 Series



Options
Validation sensor Near-end sensor (R / J) Autocutter Taiwan Mark Sensor (M-U420B)
R / J): Receipt / Journal

Industry-wide Standard For ECR/POS Applications

Easy operating design

The clamshell design makes it easier for the operator to insert paper and remove jammed paper.

Excellent cost-performance ratio

The M-U420 provides the highest cost-performance ratio to customers.

Taiwan "Mark Sensor" available with the M-U420B

Users can set up the ECR/POS to fit special requirements for the Taiwanese market.

Paper Width	Roll paper : 44.5 ± 0.5 mm			
	Validation: 135 to 210 (W) x 70 (H) mm minimum			
Column Capacity	Receipt : 24 columns Journal : 24 columns Validation : 55 columns			
Printing Speed	3 lines / sec. (at 24 VDC)			
Voltage	24 VDC +5% -10%			
MCBF	4,000,000 lines			
Overall Dimensions	150.7 (W) x 251.5 (D) x 103.5 (H) mm			
Mass	Approx. 1.0 kg			

SLIP PRINTER

Impact Printers





World's smallest slip printer

Easy terminal design

The M-290 is smaller and thinner than any other slip printer in the world. For terminal designers, this means greater ease and freedom of design and superior product innovation.

Beautiful print quality

The high-quality print is extremely clear and legible every time. And in the full graphic mode, up to 42 separate columns can be formatted.

No limit to slip design

The slip can be designed in limitless ways thanks to the use of a stepping motor and numerous advanced features such as forward and reverse paper feed, 25-line fast feed and single-dot feed. Create precisely the slip design that best suits your product.

SPECIFICATIONS

Options
Mechanical form stopper, TOF sensor
BOF sensor, Document table,
PC board insulation cover

Paper Width	80 (W) x 80 (L) mm minimum to 182 (W) x 257 (L) mm maximum
Column Capacity	42 columns
Printing Speed	2.3 lines / sec.(at 26.4 VDC)
Voltage	24 VDC ± 10%
MCBF	1,500,000 lines
Overall Dimensions	138.0 (W) x 70.5 (D) x 59.5 (H) mm
Mass	Approx. 550 g

AUTOCUTTER



The AU-100 series detects the position of the cutter blade by means of a mechanical contact and controls the rotating direction of the motor. This allows the AU-100/AU-110 to achieve both partial and full cutting of paper.



AU-100	AU-110	
Normal Paper, Recommended Thermal Paper		
37.5 to 89.5 mm		
Normal Paper: 0.06 to 0.085 mm, Thermal Paper: 0.065 mm		
300,000 cuts (incl. full & partial)		
12 VDC \pm 10 %	24 VDC ± 10 %	
Approx. 3 A	Approx. 2 A	
Approx. 800 mA	Approx. 500 mA	
0 to 50°C		
103.0 (W) x 71.5 (D) x 21.5 (H) mm		
Approx. 400 g		
	Normal Paper, Recom 37.5 to 8 Normal Paper: 0.06 to 0.085 n 300,000 cuts (in 12 VDC ± 10 % Approx. 3 A Approx. 800 mA 0 to 103.0 (W) x 71.5	

SPECIFICATIONS

	Embedded Unit				
Item Model	EU-T300	EU-T400	EU-T532 / T542		
Printing Method		Thermal line			
Paper Path		Straight			
Print Font					
Font		Font A : 12 x 24 / Font B : 9 x 17 / Kanji : 24 x 24			
Column capacity	Font A : 48 columns	/ Font B : 64 columns / kanji 24 columns (When pap	er width is 79.5 mm)		
Character size	1.25 (W) x 3.0 (H) mm (Font A) / 0.88 (W) x 2.13 (H) mm (Font B)		
Character set	g	95 Alphanumeric, 37 International, 128 x 11 Graphic			
Interface	RS-232 / IEEE 1284 Bi-c	directional parallel / USB	RS-232 / IEEE 1284 Bi-directional parallel		
Data buffer		4KB			
Print Speed (Max.)	150 mm / sec.				
Paper Dimensions	57.5 / 59.5 / 79.5 / 82.5 \pm 0.5 mm x dia. 152.4 mm max.	57.5 / 59.5 / 79.5 / 82.5 \pm 0.5 mm x dia. 203 mm max.	79.5 / 82.5 \pm 0.5 mm x dia. 254 mm max.		
Paper Thickness		0.06~0.15 mm			
Power		24 VDC ± 2.4 V			
Power consumption		Approx. 2.1 A (print duty 25%)			
Operating Temperature	0 to 55°C	0 to 55°C 0 to 50°C			
Reliability					
MCBF		Mechanism : 37,000,000 lines			
Receipt printing		300,000 times	600,000 times		
Printer life	Mechanisr	n : 15,000,000 lines, Thermal head : 100 km (62	.14 miles)		
Overall Dimensions	153 (W) x 236.4 (D) x 149.8 (H) mm	194.7 (W) x 170.6 (D) x 350 (H) mm	176 (W) x 520.7 (D) x 231.4 (H) mm		
	(6" type)	(8" type)	(Paper Roll Equipped Model)		
Mass	Approx. 2.5 / 2.6 kg (6" type)	Approx. 3.9 kg (8" type)	Approx. 5.5 kg (Full modular type)		
Power Supply (option)		PS-180			
Factory Options	Multilingual Font Set	Loop Guide (for 600 mm Receipt issuance), Paper Supply Spacer, Multilingual Font Set, Paper Near-end Sensor	Cut Sheet retracting function Multilingual Font Set DC-T500		

*Please contact your Epson representative for unit configuration.

	Embedded Unit				
Item Model	M/BA-T500 Series				
	M-T510 Series	M-T520 Series	M-T530 Series	M-T540 Series	M-T537A
Printing Method			Thermal line		
Paper Path		Curve or Straight or Drop in		Curve or Straight	Straight
Print Font					
Font		Font A : 1	12 x 24 / Font B : 9 x 17 / Kanj	i : 24 x 24	
Column capacity	Font A : 36 columns	Font A : 37 columns	Font A : 48 columns	Font A : 53 columns	Font A : 48 columns
Character size		1.25 (W) x 3.0 (H	mm (Font A) / 0.88 (W) x 2.1	3 (H) mm (Font B)	
Character set		95 Alphan	umeric, 37 International, 128 x	11 Graphic	
Interface	RS-232 / IEEE 1284 Bi-directional parallel, USB			← (without USB)	
Data buffer	4KB				
Print Speed (Max.)	150 mm / sec.			100 mm / sec.	
Paper Dimensions	57.5 ± 0.5 mm x	59.5 ± 0.5 mm x	79.5 ± 0.5 mm x	$82.5\pm0.5~\text{mm}~\text{x}$	79.5 ± 0.5 mm x
	dia. 254 mm max.	dia. 254 mm max.	dia. 254 mm max.	dia. 254 mm max.	dia. 254 mm max.
Paper Thickness		0.	06~0.15 mm (~ 0.18 mm for H	F)	
Power		24 VDC	± 2.4 V		10 ~ 16 VDC
Power consumption	Approx. 1.25 A	(print duty 25%)	Approx. 1.75 A	(print duty 25%)	Approx. 1.5 A (print duty 25%)
Operating Temperature		-15	to 70°C (without BA-T500 Ser	ies)	
Reliability					
MCBF			37,000,000 lines		
Receipt printing			-		
Printer life		Mechanism : 15,00	0,000 lines, Thermal head : 1	00 km (62.14 miles)	
Overall Dimensions	102.9 (W) x 91.9 (D) x 57.5 (H) mm 126.9 (W) x 91.9 (D) x 57.5 (H) mm			nm	
Mass	Approx. 460 g Approx. 550 g				
Power Supply (option)	PS-180 -			-	
Factory Options	Mark sensor, Autocutter Type				

	1 Station Printer				
Item Model	M-T203	M-T207A	M-T102	M-T51Ⅱ	
Printing Method Thermal line		Thermal line	Thermal line	Thermal line	
Number of total dots	432 dots / line	432 dots / line	384 dots / line	288 dots / line	
Resolution	8 dots / mm	8 dots / mm	8 dots / mm	6 dots / mm	
Printing width	54 mm	54 mm	48 mm	48 mm	
Printing Speed	80 mm / sec. max. (at 24 V)	100 mm / sec. max. (at 24 V)	60 mm / sec. max. (at 7.0 V)	52 mm / sec. max. (at 7.5 V)	
Paper feeding pitch	0.063 mm	0.063 mm	0.0625 mm	0.087 mm	
Paper feeding speed	80 mm / sec. max. (at 24 V)	100 mm / sec. max. (at 24 V)	60 mm / sec. max. (at 7.0 V)	52 mm / sec. max. (at 7.5 V)	
Sensor					
Paper end	Photosensor	Photosensor	Photosensor	Photosensor	
Printhead temperature	Thermistor	Thermistor	Thermistor	Thermistor	
Printhead unload	Microswitch	Microswitch	Microswitch	Microswitch	
Power Supply Voltage					
Printhead & Motors	24 VDC \pm 2.4 V	24 VDC ± 2.4 V	5.0 to 7.5 VDC	5.0 to 8.0 VDC	
Printhead control & sensor	5 ± 0.25 VDC	5 ± 0.25 VDC	5 ± 0.25 VDC	5 ± 0.25 VDC	
Connector					
Printhead Motor	FFC	FFC / 4-pin connector (cutter motor)	Pin connector	FFC	
Paper Dimensions	57.5 ± 0.5 mm (W) x dia.83 mm	57.5 ± 0.5 mm (W) x dia.83 mm	57.5 ± 0.5 mm (W) x dia. 127 mm	57.5 ± 0.5 mm (W) x dia. 80 mm	
Paper Thickness	60 ~ 75 μm	60 ~ 75 μm	_	_	
Operating Temperature	0 to 50°C	0 to 50°C	0 to 50°C	0 to 50°C	
Reliability					
Print head Life	50 km, 50,00	0,000 pulses	50 km, 100,000,000 pulses	-	
MCBF		15,000,0	000 lines		
Printer life		6,000,00	00 lines		
Overall Dimensions	76.9 (W) x 174.5 (D) x 164.8 (H) mm	84.3 (W) x 196.3 (D) x 113.8 (H) mm	69.15 (W) x 51.2 (D) x 20 (H) mm	69.15 (W) x 51.2 (D) x 17.3 (H) mm	
Mass	Approx. 350 g (Take-up Paper Holder)	Approx. 410 g (Paper Holder)	Approx. 85 g	Approx. 70 g	
Connector (A/C sensor)	-	-	-	-	
A/C life	_	600,000 cuts	_	_	
A/C method	_	Scissors type	_	-	
A/C duration	_	Approx. 400 ms	_	_	

	1 Station	n Printer	2 Station Printer
Item Model	M-T53∐	M-T123	M-T245
Printing Method	Thermal line	Thermal line	Thermal line
Number of total dots	288 dots / line	384 dots / line	R / J: 288 dots / line
Resolution	6 dots / mm	8 dots / mm	8 dots / mm
Printing width	48 mm	48 mm	R / J : 36 mm
Printing Speed	50 mm / sec. max. (at 7.5 V)	50 mm / sec. max. (at 7.5 V)	Approx. 50 mm / sec.
Paper feeding pitch	0.083 mm	0.0637 mm	0.125 mm
Paper feeding speed	50 mm / sec. max. (at 7.5 V)	50 mm / sec. max. (at 7.5 V)	Approx. 50 mm / sec.
Sensor			
Paper end	Photosensor	Photosensor	Photosensor
Printhead temperature	Thermistor	Thermistor	Thermistor
Printhead unload	Microswitch	Microswitch	Micro switch
Power Supply Voltage			
Printhead & Motors	5.0 to 8.0 VDC	5.0 to 8.0 VDC	24 VDC ± 7 %
Printhead control & sensor	5 ± 0.25 VDC	5 ± 0.25 VDC	5 ± 0.25 VDC
Connector			
Printhead	FFC	FFC	FFC connector
Motor	FFC	FFG	Pin connector
Paper Dimensions	57.5 \pm 0.5 mm (W) x dia.80 mm	57.5 \pm 0.5 mm (W) x dia.80 mm	44.5 \pm 0.5 mm (W) x dia. 83 mm max.
Operating Temperature	0 to 50°C	0 to 50°C	0 to 40°C
Reliability			
Print head Life	-	50 km, 100,000,000 pulses	-
MCBF	15,000,0	000 lines	5,000,000 lines
Printer life	6,000,0	00 lines	10,000,000 lines
Overall Dimensions	82.4 (W) x 50.2 (D) x 14 (H) mm	82.4 (W) x 50.2 (D) x 14 (H) mm	144 (W) x 213.1 (D) x 159.2 (H) mm (with full options)
Mass	Approx. 65 g	Approx. 65 g	Approx. 920 g (without options)

			1 Station Printer		
Item Model	M-150∏	M-190 Series			
	W-15011	M-190	M-191	M-192	M-195
Printing Method		Shuttle impact dot matrix			
Printing Format					
Font		5 x 7			
Column capacity	16 columns	24 columns	32 columns	40 columns	18 columns
Character size	1.8 (W) x 2.5 (H) mm	1.7 (W) x 2.6 (H) mm	1.3 (W) x 2.6 (H) mm	1.1 (W) x 2.6 (H) mm	1.7 (W) x 2.6 (H) mm
Line spacing	* 3.5 mm		3.7 mm (In case of 5 x 7 font	and 3 dots / line paper feed)	
Column spacing	2.1 mm	2.0 mm	1.5 mm	1.2 mm	2.0 mm
Number of total dots	96 dots / line	144 dots / line	192 dots / line	240 dots / line	108 dots / line
Printing Speed	1.0 line / sec. (at 4.5 VDC)	2.5 lines / sec. (at 4.8 VDC)	1.9 lines / sec. (at 4.8 VDC)	1.5 lines / sec. (at 4.8 VDC)	2.5 lines / sec. (at 4.8 VDC)
Print head					1
Voltage	3.3 to 5.0 VDC	3.3 to 5.2 VDC			
Peak current	Approx. 3 A / solenoid (at 4.5 VDC)	Approx. 2.5 A / solenoid (at 4.8 VDC)			
Motor					
Voltage	3.8 to 5.0 VDC		3.8 to 5	.2 VDC	
Mean current	Approx. 0.17 A (at 4.5 VDC)		Approx. 0.35	A (at 4.8 VDC)	
Paper		Roll paper			
Dimensions	44.5 ± 0.5 mm (W) x dia. 50 mm $$ max.	57.	5 ± 0.5 mm (W) x dia. 83 mm m	ax.	44.5 ± 0.5 mm (W)
Total Thickness	0.07 mm		0.06 to 0	.085 mm	•
Copy Capability			Original and one copy		
Ribbon Cassette	ERC-05		ERC-0)9 / 22	
Operating Temperature			0 to 50°C		
Reliability					
Print head Life		_			
MCBF	500,000 lines	1,500,000 lines	1,100,000 lines	900,000 lines	1,500,000 lines
Printer Life	-	2,250,000 lines	1,650,000 lines	1,350,000 lines	2,250,000 lines
Overall Dimensions	73.2 (W) x 42.6 (D) x 12.8 (H) mm	(H) mm 91.0 (W) x 46.9 (D) x 15.8 (H) mm			
Mass (without options)	Approx. 60 g	Approx. 100 g			

(*) For a 5 x 7 font and 3 dots per line paper feed.

	1 Station	Printer	Slip Printer
Item Model	M-190G Series		M-290
	M-190G	M-192G	W-230
Printing Method	Shuttle impa	ct dot matrix	Shuttle impact dot matrix
Printing Format			
Font	5 x 7		7 x 7
Column capacity	24 columns	40 columns	42 columns
Character size	1.7 (W) x 2.6 (H) mm	1.1 (W) x 2.6 (H) mm	1.3 (W) x 2.9 (H) mm
Line spacing	3.7 mm (In case of 5 x 7 font and 3 dots / line paper feed)		4.2 mm
Column spacing	2.0 mm	1.2 mm	1.6 mm
Number of total dots	144 dots / line	240 dots / line	210 dots / line
Printing Speed	2.7 lines / sec. ± 20%	1.8 lines / sec. ± 20%	2.3 lines / sec. (at 26.4 VDC)
Print head			
Voltage	5.0 ± 0.5 VDC		24 VDC ± 10%
Peak current	Approx. 2.5 A / solenoid (at 5 VDC)		Approx. 1.6 A / solenoid (at 24 VDC)
Motor			
Voltage	5.0 ± 0.5 VDC		24 VDC ± 10%
Mean current	Approx. 0.35 A (at 5 VDC)		Approx. 0.15 A (at 24 VDC, P.F. motor), Approx. 0.15 A (at 24 VDC, CR motor)
Paper	Roll paper		Slip paper
Dimensions	57.5 ± 0.5 mm (W) x dia 83 mm max.		80 (W) x 80 (L) mm mini. to 182 (W) x 257 (L) mm max.
Total Thickness	0.06 to 0.085 mm		0.09 to 0.35 mm
Copy Capability	Original and one copy		Max : Original and four copies (at 25°C)
Ribbon Cassette	ERC-09 / ERC-22 / ERC-40		ERC-27
Operating Temperature	-10 to 50°C (using ERC-22, ERC-40)		0 to 50°C
Reliability			
Print head Life	-		100,000,000 strokes / wire
MCBF	1,500,000 lines	1,000,000 lines	1,500,000 lines
Printer Life	2,250,000 lines	1,500,000 lines	_
Overall Dimensions	91.0 (W) x 46.9 (D) x 15.8 (H) mm		138.0 (W) x 70.5 (D) x 59.5 (H) mm
Mass (without options)	Approx. 100 g		Approx. 550 g

UL478, CSA220 recognized products are available on request. (Safety Standards)

Item Model		1 Station Printer				
		M-U110 Series				
		M-U110I	M-U112	M-U110A		
Pri	nting Method	Serial impact dot matrix				
Pri	nting Format	'				
	Font	7 x 9				
	Column capacity	42 columns (76 mm) / 30 columns (58 mm)	30 columns	42 columns (76 mm) / 30 columns (58 mm)		
	Character size	1.20 (W) x 3.1 (H) mm	1.24 (W) x 3.1 (H) mm	1.24 (W) x 3.1 (H) mm		
Line spacing		Approx. 4.2 mm		Approx. 4.23 mm (24 step)		
	Column spacing	Approx. 1.5 mm	Approx. 1.6 mm	Approx. 1.6 mm		
	Number of total dots	210 dots (420 positions) / line (76 mm) / 150 dots (300 positions) / line (58 mm)	150 dots (300 positions) / line	210 dots (420 positions) / line (76mm) / 150 dots (300positions) / line (58mm)		
Pri	nting Speed	4.4 lines / sec. (76 mm) / 5.6 lines / sec. (58 mm)	4.2 lines / sec.	3.3 lines / sec. (76 mm) / 4.2 lines / sec. (58 mm)		
Pri	nt head					
	Voltage	24 ± 2.4 VDC				
	Peak current	Approx. 11.7 A (at 24 VDC)	Approx. 8.6 A (at 24 VDC)	Approx. 8.6 A (at 24 VDC)		
Motor						
	Voltage	24 ± 2.4 VDC				
Mean current		0.35A / phase (CR motor) / 0.3A / phase (P.F.motor)				
Paper		Roll paper	Roll paper	Roll paper		
	Dimensions Roll paper : 76.2 ± 0.7 m	Roll paper : 76.2 \pm 0.7 mm (W) / 57.5 \pm 0.5 mm (W) x	Roll paper : 57.5 \pm 0.5 mm (W) x dia. 83 mm max.	Roll paper : 76.2 \pm 0.7 mm (W) / 57.5 \pm 0.5 mm (W)		
		dia. 83 mm max.	How paper : 57.5 ± 0.5 mm (W) x dia. 65 mm max.	dia. 83 mm max		
	Total Thickness	Roll paper : 0.06 to 0.14mm	Roll paper : 0.06 to 0.2mm	Roll paper : 0.06 to 0.14 mm		
Copy Capability		Original and one copy	Original and two copies	Original and one copy		
Ril	obon Cassette	ERC-39 (P)	ERC-42 (P)	ERC-39 (P)		
Op	erating Temperature	0 to 50°C				
Re	liability					
	Print head Life		150,000,000 characters			
	MCBF	9,000,000 lines	5,000,000 lines			
	Printer Life	9,000,000 lines	8,000,000 lines			
Ô٧	erall Dimensions	127.0 (W) x 96.0 (D) x 53.0 (H) mm	108.0 (W) x 96.0 (D) x 53.0 (H) mm	128.6 (W) x 98.8 (D) x 77.3 (H) mm (76 mm) 127.6 (W) x 98.8 (D) x 77.3 (H) mm (58 mm)		
Mass (without options)		Approx. 470 g	Approx. 400 g	Approx. 700 g		
Au	tocutter					
	Autocutter life	-		1,000,000 cuts		
	Cutting method			Scissors		
	Operating duration			Approximately 350 ms (at 24 VDC)		

	Sprocket Printer	2 Station Printer		
Item Model	M-U110 Series	- M-780	M-U420 Series	
	M-U111SI			
Printing Method	Serial impact dot matrix	Serial impact dot matrix	Serial impact dot matrix	
Printing Format				
Font	7 x 9	7 x 9	7 x 9	
Column capacity	36 columns (76 mm)	18 columns x 2, Validation: 42 columns	Receipt : 24 columns Journal : 24 columns Validation : 55 columns	
Character size	1.2 (W) x 3.1 (H) mm (76 mm)	1.3 (W) x 3.1 (H) mm	1.32 (W) x 3.1 (H) mm	
Line spacing	Approx. 4.2 mm	4.7 mm	4.3 mm	
Column spacing	Approx. 1.5 mm (76 mm)	1.53 mm	1.54 mm	
Number of total dots	180 dots (360 positions) / line	R / J : 81 dots (162 positions) / line / Validation: 189 dots (378 positions) / line	R / J : 108 dots (216 positions) / line Validation : 247 dots (495 positions) / line	
Printing Speed	5 lines / sec. (76 mm)	Approximately 3.3 lines / sec. (at 24 VDC)	Approximately 3 lines / sec. (at 24 VDC)	
Print head				
Voltage	24 ± 2.4 VDC	24 VDC ± 5% 10%	24 VDC -10%	
Peak current	Approx. 11.7 A (at 24 VDC)	Approx. 10.8 A (at 24 VDC)	Approx. 8.6 A (at 24 VDC)	
Motor				
Voltage	24 ± 2.4 VDC	24 VDC ± ^{5%} _{10%}	24 VDC -10%	
Mean current	0.35A / phase (CR motor) / 0.3A / phase (P.F.motor)	Approx. 0.25 A (at 24 VDC)	Approx. 0.2 A (at 24 VDC)	
Paper	Sprocket paper	Roll paper / Validation paper	Roll paper / Validation paper	
Dimensions	76.2 \pm 0.7 mm (W) x 127 to 254 mm (H) (between perforations)	Roll paper : 37.5 \pm 0.5 mm (W) x dia. 83 mm max. Validation : 134 mm or more (W) x 70 $$ mm or more (H)	Roll paper : 44.5 ± 0.5 mm (W) x dia. 83 mm max. Validation : 135 to 210 (W) x 70 (H) mm mini.	
Total Thickness	0.1 to 0.2 mm	Roll paper : 0.06 to 0.09 mm, Validation : 0.07 to 0.2 mm	Roll paper : 0.06 to 0.09 mm / Validation : 0.07 to 0.14 mm	
Copy Capability	Original and two copies	Original and two copies (Validation)	Original and one copy (Validation)	
Ribbon Cassette	ERC-39 (P)	ERC-37 (P)	ERC-32 (P)	
Operating Temperature	0 to 50°C	0 to 50°C	0 to 50°C	
Reliability				
Print head Life	150,000,000 characters	100,000,000 characters	150,000,000 characters	
MCBF	8,000,000 lines	3,000,000 lines	4,000,000 lines	
Printer Life	8,000,000 lines	5,000,000 lines	8,000,000 lines	
Overall Dimensions	127.0 (W) x 96.0 (D) x 61.0 (H) mm	135 (W) x 227.7 (D) x 150.5 (H) mm	150.7 (W) x 251.5 (D) x 103.5 (H) mm	
Mass (without options)	Approx. 490 g	Approx. 1.0 kg (1.1 kg with autocutter)	Approx. 1.0 kg (1.1 kg with autocutter)	

MEMO

Printing Product Guide 2005-2006

EPSON

SEIKO EPSON CORPORATION

Epson Global site http://www.epson.com

All features and specifications described are subject to change without notice. EPSON and ESC/POS are registered trademarks of Seiko Epson Corporation. Windows and Windows NT are registered trademarks of Microsoft Corporation in the United States and/or other countries. Linux is a registered trademark of Linus Torvalds in the United States and/or other countries. Company and product names are trademarks or registered trademarks of their respective companies.



This publication uses 100% recycled paper.



- **EN** For pricing and availability in your local country please visit one of the below links:
- **DE** Informationen zu Preisen und Verfügbarkeit in Ihrem Land erhalten Sie über die unten aufgeführten Links:
- FR Pour connaître les tarifs et la disponibilité dans votre pays, cliquez sur l'un des liens suivants:

<u>M150</u>

EN

This Datasheet is presented by the manufacturer

DE

Dieses Datenblatt wird vom Hersteller bereitgestellt

FR

Cette fiche technique est présentée par le fabricant