

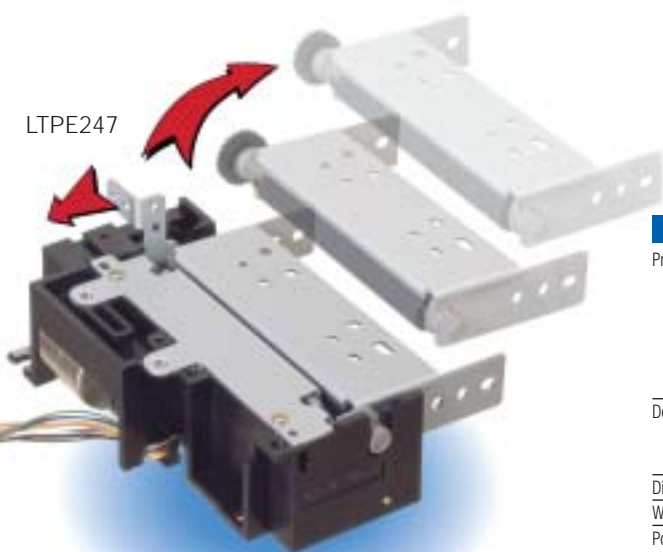
# LTP Series

## LTPE247/LTPE347 PRINTERS

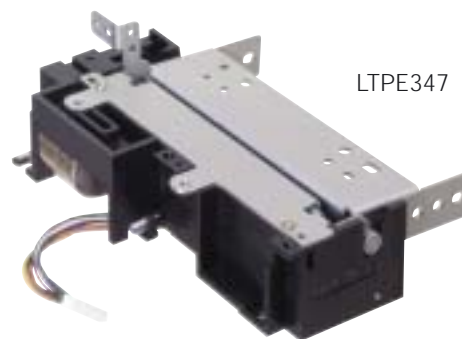
LTPE247 and LTPE347 are 2-inch (58mm) and 3-inch (80mm) high-speed, high resolution thermal line dot printers, featuring the "Easy-Paper-Operation" system to use for multiple 24V applications. The system offers highest functionality and easiest operability by a completely removable and re-adjustable platen shaft. This allows for a variety of 24V applications, above all in the POS/ECR and EFT-POS market. The LTPE247 and the LTPE347 are both applicable for various register and stand alone type printers, for instance data loggers and / or industrial applications.

- "Easy-Paper-Operation" loading with removable platen unit
- High resolution printing (8 dots/mm)
- High durability guaranteed for 50 km or 100 million pulses
- High-speed printing of 90 mm/s for LTPE247 and 75 mm/s for LTPE347
- Easy head cleaning
- Easy to fit the autocutter

LTPE247



LTPE347



Model		LTPE247	LTPE347
Printing	Method	Thermal line dot system	
	No. of dots/line	432	576
	Resolution	8 dots/mm	
	Width (mm)	54	72
	Paper feed pitch (mm)	0.125	
Detection	Speed (mm/s)	90	75
	Head temperature	By thermistor	
	Platen position detection	By mechanical switch	
	Out-of-paper detection	By photo interrupter	
Dimensions (WxDxH) mm <sup>1</sup>		89.9x52.0x28.8	107.9x52.0x28.8
Weight (g) <sup>2</sup>		165	200
Power Supply	Operating voltage	Vdd line: 5V ± 5%; Vp line: 24V ± 10%	
	Current consumption (average)	7.1A (432 dots); 4.8A (288 dots); 2.4A (144 dots) @ 24V	
Servie life	Pulse activation	min. 100 million pulses (12.5% print ratio)	
	Abrasion resistance	50 km or more	
Operating temperature (°C)		0 to 50	
Storage temperature (°C)		-20 to 60	
Paper	Width (mm)	58	80
	Path	Curve	
	Paper feed force	0.98N (100gf) or more	
	Paper hold force	0.98N (100gf) or more	
	Thickness	75 µm	
Auto Cutter	ACUE224 / ACUE324	Optional	
Winderunit	WU281	Optional	

<sup>1</sup>Dimensions exclude those of the lever and platen frame <sup>2</sup>Weight includes all parts

## CUTTER, INTERFACE BOARD & CPU

### ACUE224C/B AND ACUE324A AUTOCUTTER

The ACUE series is a compact and light-weight circular cut type automatic cutter developed for the LTPE series printer mechanisms.

### IFE001-02B INTERFACE BOARD FOR LTPE247 AND LTPE347

The interface IFE001-02B is an interface used with LTPE series printers. It processes and converts data input sent from a host device. The IFE001-02B is compatible with both parallel and serial data input. It prints extended character sets as well as bit images. A lid open detector input is also available. Finally, IFE001-02B drives the winder unit and supports the autocutter control function.

### PTE00P04 CPU FOR LTPE247 AND LTPE347

- For individual design-in into various applications
- Firmware to control the printer
- Drives LTPE247 and LTPE347 printer mechanisms or two LTPE247 at the same time
- Drives autocutter and winder unit
- Supports both parallel and serial input
- Reduces consumption current using the power saving function
- Registers and prints any font using the downloaded character function and the user-defined character function
- Prints barcodes using the barcode print function

Model	ACUE224C/B	ACUE324A
Cut Method	Circular cutter type	
Applicable paper width	58 +0/-1mm	80 +0/-1mm
Applicable paper thickness	60 to 80 m (max.)	
Paper roll direction tendency	Optional	
Cutting condition	Partial cut/Full cut	Partial cut
Drive voltage <sup>1</sup>		
Motor	24V+/-10%	
Detector	5V+/-10%	
Operating time	0.6sec/cycle (driving voltage 24.0V)	0.8 sec./cycle (driving voltage 24.0V)
Minimum cutting length	10mm	
Cutting frequency	30 cuts/minute (max.)	
Operational life	500,000 cuts	
Operating temperature (°C)	0 to +50	
Storage temperature (°C)	-20 to +60	
Dimensions (WxDxH) mm	92.0x48.4x9.5	110.0x48.4x9.5
Weight (g)	appr. 70	appr. 90

<sup>1</sup> Measured at connector pins

Model	IFE001-02B	
Application	LTPE series printer mechanism	
Character type	Extended graphics character set	
	Downloaded characters	
	User-defined characters	
	Optional font	
Character configuration	16-dot	24-dot
Standard size character	16x8	24x12 <sup>1</sup>
Kanji size character	16x16	24x24 <sup>1</sup>
Input control method	Parallel (Centronics)	
	Serial (TTL Level)	
Maximum print speed <sup>2</sup>	90/75mm/s <sup>3</sup>	
Operating voltage range		
Vcc	5V +/- 10%	
Vp	24V +/- 10%	
Current consumption (Icc) <sup>4</sup>		
Printing	0.30A max.	
Low power consumption mode	0.15A max.	
Operating temperature (°C)	0 to +50	
Storage temperature (°C)	-20 to +60	
Dimensions (WxDxH) mm	80.0 x 90.0 x 19.6	
Weight (g)	appr. 46	

<sup>1</sup> The default value is changeable through commands

<sup>2</sup> 25°C, fixed 1-block division, 24-dot standard size characters, 16-dot line spacing, and 4-dot character spacing

<sup>3</sup> Respectively for LTPE247 and LTPE347

<sup>4</sup> Vcc = 5V, 25°C, no error, when input/output terminal is not connected

Model	PTE00P04	
Applicable printer	LTPE247	LTPE347
Package type	144 pin flat package	
Dimension (WxDxH) mm	22.0x22.0x3.05	
Configuration	C-MOS LSI	
Input control method	Parallel (Centronics)	
	Serial (TTL Level)	
Operating voltage		
Vcc	5V+/-10%	
Vp	24V+/-10%	
Operating frequency	14.74 MHz+/-0.5%	
Current consumption <sup>3</sup>		
Printing	135mA	
Standby	20mA	
Operating temperature (°C)	0 to +50	
Storage temperature (°C)	-20 to +60	

<sup>1</sup> Kanji ROM must be needed

<sup>2</sup> External RAM or ROM must be needed

<sup>3</sup> Vcc = 5V, 25°C, no error, when input/output terminal is not connected