

Dot Impact Printer Mechanisms

Type Classification

DP-654 D F C V

① ② ③ ④ ⑤

① Type

654: 40 columns (360dots)
657: 40 columns (400dots)

② Ribbon

D: 2 color
M: 1 color

③ Paper feeding method

F: Friction feeding
P: Sprocket feeding

④ Paper path

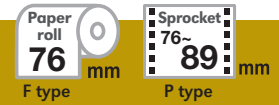
C: Character only
G: Graphic

⑤ Paper pressure

None: No validation
V: Equipped



DP-654/657



Features

- High-speed printing
- High reliability
- 2 color printing (black/red)
- Number of columns:
DP-654 40 columns (360 dots)
DP-657 40 columns (400 dots)
- 24V operation
- Sprocket feeding model (P type)
- Graphic model (G type)

Specifications

Model	DP-654	DP-657
Printing method	Serial impact dot matrix	
Printing direction	Bi-directional	
Printing speed	3.6LPS ±10%	3.0LPS ±10%
Number of columns	40 columns, 360 dots/line	40 columns, 400 dots/line
Font	7 × 7 or 7 × 9 (half-dot)	
Character size (W × H)	1.36 × 2.4mm	1.2 × 2.4mm
Line spacing	1/6 inch	1/9 inch (DR617DFG)
Motor	Voltage: 24V $\frac{1}{2}$ V DC / Peak current: Approx. 1.5A / Average less than 0.3A	
Reset pulse sensor	Mechanical leaf switch	
Dot pulse sensor	Photo interrupter	
Home position sensor	Photo interrupter	
Printing solenoid	Voltage: 24V ±1V DC / Resistance: 17Ω (24V DC, 25°C)	
Paper feeding solenoid	Voltage: 24V $\frac{1}{2}$ DC Resistance: 33Ω ±10%	
Connector terminals	Connector 1 (S16B-PH-K-S (16P): Counterpart PHR-16 (16P) manufactured by JST) Connector 2 (S10B-PH-K-SC (8P): Counterpart PHR-10 (8P) manufactured by JST)	
Connecting method	Pin connector	
Paper feeding	Friction feeding or sprocket feeding	
Ink ribbon	Dedicated ink ribbon cartridge (Red/Black or single color Black)	
Paper feeding speed	18 lines/sec.	
Printing paper	Receipt and journal 37 ~ 38mm, Outer dia Max. φ83mm	
External dimensions (W × D × H)	137 × 138 × 63.5mm	
Weight	Approx. 690g	
Operating temp. range	0 ~ 50°C	
Storage temp. range	-25 ~ 70°C	
Reliability	Mechanism: MCBF 4.0 million lines / Head: 80 million characters	

Accessories

Paper winder ▶ AW-2FA

Ink ribbon ▶ IR-61



Auto cutter ▶

AC-2/2F

AC-134

ACS-236

	AC-2/2F	AC-134	ACS-236
Cutting method	Guillotine	Guillotine	Slide cutting
Paper width	76±0.5mm Ma	50 – 89mm	50 – 89mm
thickness	0.06 – 0.085mm	0.06 – 0.09mm	0.06 – 0.15mm
Max. cutting frequency	20 cuts/min	20 cuts/min	20 cuts/min
Voltage	24V ±10%	24V ±10%	24V ±10%
Current (peak)	0.8A	0.8A	0.8A
Operating temperature	0 – 40°C	0 – 45°C	0 – 45°C
Size	99 × 74 × 30mm	120 × 57 × 15mm	102 × 55.7 × 15mm
Weight	200g	160g	180g
Reliability	300,000 cuts	300,000 cuts	500,000 cuts
Number of tab left			
(F)ull cut blade type	None or 1 tab	None or 1 tab	None
(P)artial cut blade type	2 or 3 tabs	2 or 3 tabs	None or 1 tab



AC-2



AC-134



ACS-236