

Switch Mode Power Supply

S8JC-Z (15/35/50/100/150/350-W Models)

Economical Power Supply

- Mount to DIN Rails for models with ratings of 15 to 350 W
- Protection against overcurrents and overvoltages.

Note: Refer to *Safety Precautions* on page 7.

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
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Model Number Structure

Model Number Legend

Note: Not all combinations are possible. Refer to *List of Models* in *Ordering Information* on page 1.

S8JC-Z □ □ □ □ □ □

1 2 3 4

1. Power Ratings

015: 15 W
 035: 35 W
 050: 50 W
 100: 100 W
 150: 150 W
 350: 350 W

2. Output Voltage

05: 5 V
 12: 12 V
 24: 24 V

3. Configuration (15/35/50/100/150 W model)

C: Covered

4. Configuration/mounting

None: Bottom-mounting
 D: DIN Rail-mounting

Ordering Information

List of Models

Note: For details on normal stock models, contact your nearest OMRON representative.

Configuration		Input voltage	Power ratings	Output voltage (VDC)	Output current	Model
Covered Power Supplies	Bottom-mounting	200 to 240 VAC	15 W	5 V	3.0 A	S8JC-Z01505C
				12 V	1.3 A	S8JC-Z01512C
				24 V	0.7 A	S8JC-Z01524C
			35 W	5 V	7.0 A	S8JC-Z03505C
				12 V	3.0 A	S8JC-Z03512C
				24 V	1.5 A	S8JC-Z03524C
			50 W	24 V	2.1 A	S8JC-Z05024C
			100 W	24 V	4.5 A	S8JC-Z10024C
			150 W	24 V	6.5 A	S8JC-Z15024C
			350 W	24 V	14.6 A	S8JC-Z35024C
	DIN Rail-mounting		15 W	5 V	3.0 A	S8JC-Z01505CD
				12 V	1.3 A	S8JC-Z01512CD
				24 V	0.7 A	S8JC-Z01524CD
			35 W	5 V	7.0 A	S8JC-Z03505CD
				12 V	3.0 A	S8JC-Z03512CD
				24 V	1.5 A	S8JC-Z03524CD
			50 W	24 V	2.1 A	S8JC-Z05024CD
			100 W	24 V	4.5 A	S8JC-Z10024CD
			150 W	24 V	6.5 A	S8JC-Z15024CD
			350 W	24 V	14.6 A	S8JC-Z35024CD

S8JC-Z

Ratings, Characteristics, and Functions

15-/35-/50-W Models

Item	Power ratings		15 W			35 W			50 W		
Output	Output voltage (VDC)		5 V	12 V	24 V	5 V	12 V	24 V	24 V		
	Output current		3.0 A	1.3 A	0.7 A	7.0 A	3.0 A	1.5 A	2.1 A		
	Voltage adjustment range (typical)		-10% to 10%								
	Ripple (typical)		100 mV			100 mV	150 mV		100 mV		
	Startup time (typical)		300 ms								
	Hold time (typical)		50 ms			30 ms					
Efficiency (typical)			74%	80%		75%	82%	84%	84%		
Input	Voltage		200 to 240 VAC (185 to 264 VAC)								
	Frequency		50/60 Hz (47 to 63 Hz)								
	Current (typical)		0.22 A			0.5 A			0.6 A		
	Leakage current		1 mA max.								
	Inrush current (for a cold start at 25°C) (typical)		40 A								
Additional functions	Overload protection		105% of rated load current, voltage drop, intermittent, automatic reset								
	Overvoltage protection		Yes								
	Parallel operation		No								
	Series operation		No								
Other	Ambient operating temperature		Refer to the derating curve in <i>Engineering Data</i> on page 3 (with no icing or condensation)								
	Dielectric strength		1.5 kVAC for 1 min. (between all inputs and outputs; detection current: 20 mA) 1.5 kVAC for 1 min. (between all inputs and PE terminals; detection current: 20 mA) 0.5 kVAC for 1 min. (between all outputs and PE terminals; detection current: 20 mA)								
	Vibration resistance		10 to 55 Hz, 0.26-mm single amplitude for 2h each in X, Y, and Z directions								
	Output indicator		Yes (Color: Green)								
	Dimensions (W×H×D)	Bottom-mounting model	36×97×80 mm			38×98×129 mm					
		DIN Rail-mounting model (See note 3.)	46×97×106 mm			46×98×155 mm					
	Weight (typical)	Bottom-mounting model	190 g			280 g					
		DIN Rail-mounting model	360 g			450 g					

100-/150-/350-W Models

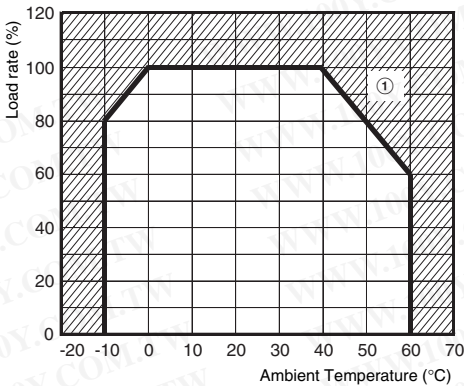
Item	Power ratings		100 W	150 W	350 W
Output	Output voltage (VDC)		24 V	24 V	24 V
	Output current		4.5 A	6.5 A	14.6 A
	Voltage adjustment range (typical)		−10% to 10%		
	Ripple (typical)		100 mV	150 mV	200 mV
	Startup time (typical)		300 ms		
	Hold time (typical)		50 ms		
Efficiency (typical)		86%	88%	25 ms	84%
Input	Voltage		200 to 240 VAC (185 to 264 VAC)		
	Frequency		50/60 Hz (47 to 63 Hz)		
	Current (typical)		1.4 A	2.0 A	4.2 A
	Leakage current		1 mA max.		
	Inrush current (for a cold start at 25°C) (typical)		40 A		
Additional functions	Overload protection		105% of rated load current, voltage drop, intermittent, automatic reset		
	Overvoltage protection		Yes		
	Parallel operation		No		
	Series operation		No		
Other	Ambient operating temperature		Refer to the derating curve in <i>Engineering Data</i> on page 3 (with no icing or condensation)		
	Dielectric strength		1.5 kVAC for 1 min. (between all inputs and outputs; detection current: 20 mA) 1.5 kVAC for 1 min. (between all inputs and PE terminals; detection current: 20 mA) 0.5 kVAC for 1 min. (between all outputs and PE terminals; detection current: 20 mA)		
	Vibration resistance		10 to 55 Hz, 0.26-mm single amplitude for 2h each in X, Y, and Z directions		
	Output indicator		Yes (Color: Green)		
	Dimensions (W×H×D)	Bottom-mounting model	38×98×159 mm	50×98×159 mm	50×115×195 mm
		DIN Rail-mounting model (See note 3.)	46×98×186 mm	52×98×186 mm	52×115×221 mm
	Weight (typical)	Bottom-mounting model	350 g	450 g	750 g
		DIN Rail-mounting model	520 g	620 g	920 g

Note: 1. Unless otherwise specified, all parameters are measured with a 230-VAC input, at the rated load, and at an ambient temperature of 25°C.
2. Ripple and noise are measured at a bandwidth of 20 MHz.
3. Refer to the dimensional diagrams for details on DIN Rail-mounting Models (excluding terminal blocks and DIN Rail products).

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Engineering Data

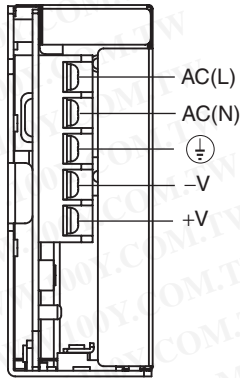
Derating Curves



- Note:** 1. Internal parts may occasionally deteriorate or be damaged. Do not use the Power Supply in areas outside the derating curve (i.e., the area shown by shading ① in the above graph).
2. If there is a derating problem, use forced air-cooling.

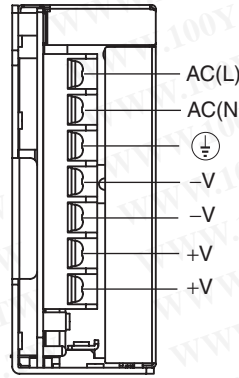
Terminal Arrangement

15-/35-/50-W Models



Note: The S8JC-Z05024C is shown above.

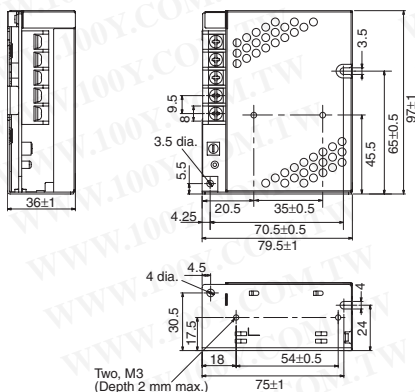
100-/150-/350-W Models



Note: The S8JC-Z10024C is shown above.

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S8JC-Z015□□C (15 W)

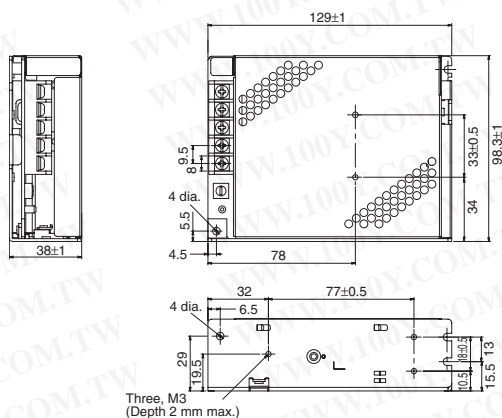


Panel mounting holes dimensions

	Surface screw mounting
Side Mounting	<p>Two, M3</p> <p>70.5\pm0.5</p> <p>59.5\pm0.5</p>
Bottom Mounting	<p>Two, M3</p> <p>70.5\pm0.5</p> <p>6.5\pm0.5</p>

Note: The screws must not protrude more than 2 mm inside the Power Supply when screw holes provided on the chassis are used. If the dimensions are not correct, the Power Supply may be damaged.

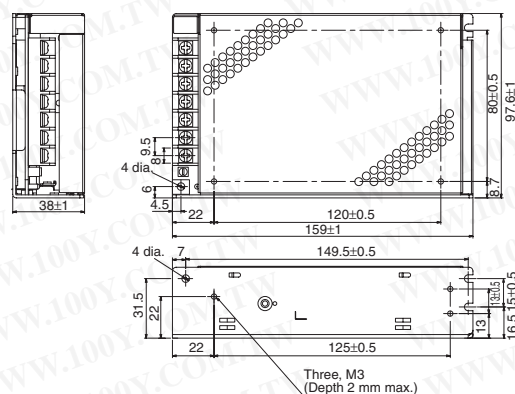
S8JC-Z035□□C (35 W)
S8JC-Z05024C (50 W)



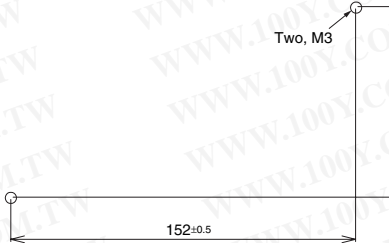
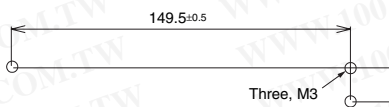
Panel mounting holes dimensions

Surface screw mounting	
Side Mounting	<p>Two, M3</p> <p>85.5±0.5</p> <p>122.5±0.5</p>
Bottom Mounting	<p>Three, M3</p> <p>13±0.5</p> <p>120±0.5</p>

S8JC-Z10024C (100 W)

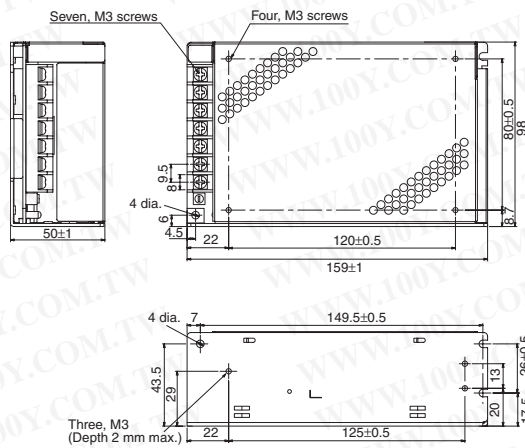


Panel mounting holes dimensions

Surface screw mounting	
Side Mounting	 <p>Diagram illustrating the side mounting configuration. The mounting plate is 152±0.5 mm wide and 84±0.5 mm high. Two M3 screws are shown, one at the top right corner and one at the bottom left corner.</p>
Bottom Mounting	 <p>Diagram illustrating the bottom mounting configuration. The mounting plate is 149.5±0.5 mm wide and 15±0.5 mm high. Three M3 screws are shown, one at the bottom left corner and two at the bottom right corner.</p>

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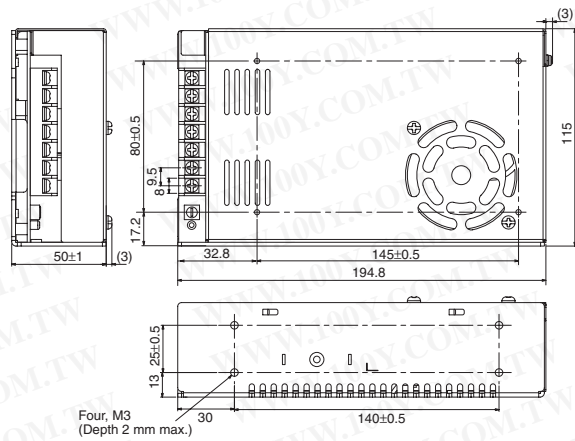
S8JC-Z15024C (150 W)



Panel mounting holes dimensions

Surface screw mounting	
Side Mounting	Two, M3 152±0.5 84±0.5
Bottom Mounting	Three, M3 149.5±0.5 26±0.5

S8JC-Z35024C (350 W)

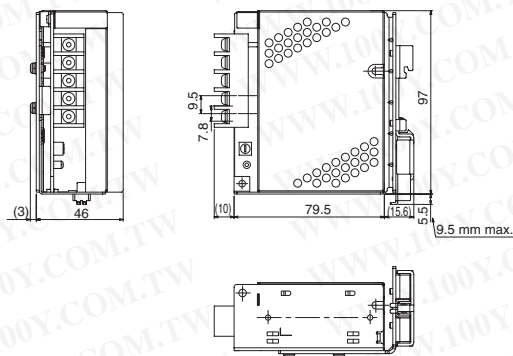


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S8JC-Z

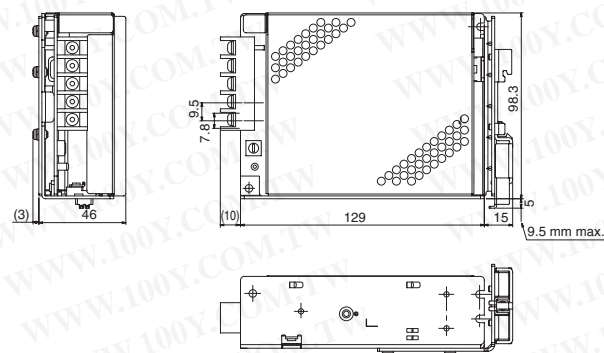
DIN Rail-mounting Models

S8JC-Z015□□CD (15 W)

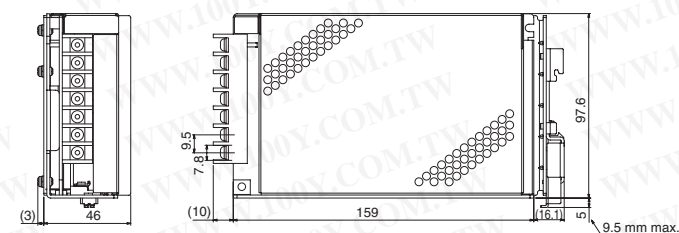


S8JC-Z035□□CD (35 W)

S8JC-Z05024CD (50 W)

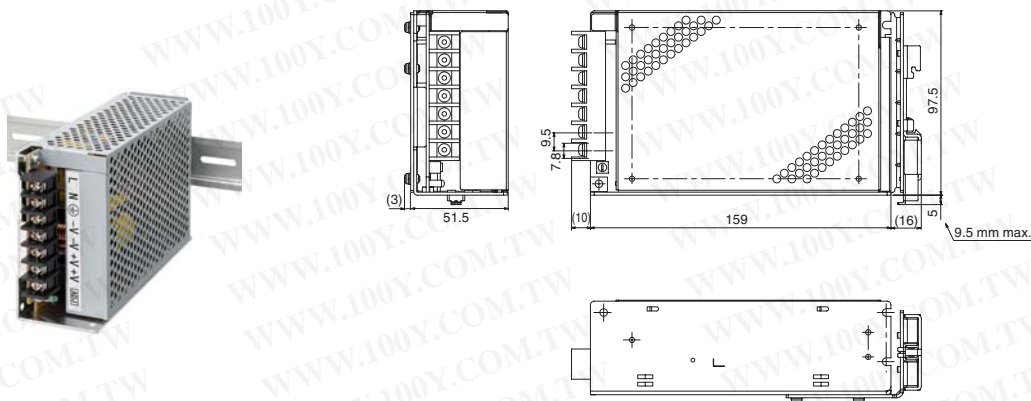


S8JC-Z10024CD (100 W)

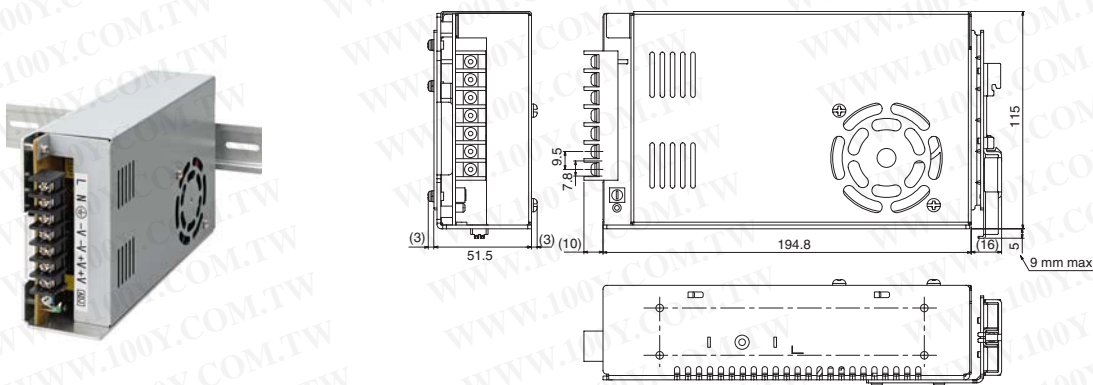


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S8JC-Z15024CD (150 W)



S8JC-Z35024CD (350 W)



Safety Precautions

Refer to *Safety Precautions for All Power Supplies.*

Precautions for Safe Use

- Minor burns may occasionally occur. Do not touch the Product while power is being supplied or immediately after power is turned OFF.
- Minor injury due to electric shock may occasionally occur. Do not touch the terminals while power is being supplied.
- Take adequate measures to ensure proper heat dissipation to increase the long-term reliability of the Product.
- Connect the ground completely. Electric shock or malfunction may occur if the ground is not connected completely.
- The service life of the fan is approximately 35,000 hours (at 25°C). The service life varies, however, depending on the ambient temperature or other surrounding environmental conditions such as dust. As a guide two years if it is used at an ambient temperature of 40°C. (For 350-W Models only.)
- The screws must not protrude more than 2 mm inside the Power Supply when screw holes provided on the chassis are used.
- Avoid places where the product is subjected to penetration of liquid, foreign substance, or corrosive gas (in particular, sulfide gas or ammonia gas).

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