Authorised Distributors:-
ASH & ALAIN INDIA PVT LTD
S-100, F.I.E.E., Okhla Industrial Area, Phase-ii, New Delhi-110020(India)
Tel : 011-43797575 Fax : 011-43797574 E-mail : sales@ashalain.com

New Product

OMRON

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.

Model Number Structure

Model Number Legend

Note: Not all combinations ar e 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, contac t 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 *Engineering Data* 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			

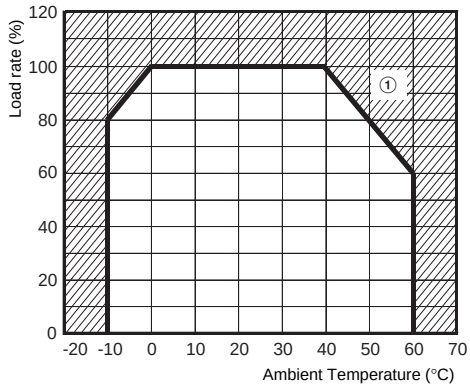
100-/150-/350-W Models

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		25 ms
Efficiency (typical)			86%	88%	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 *Engineering Data* 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).

Engineering Data

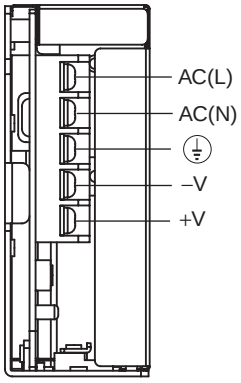
Derating Curves



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.

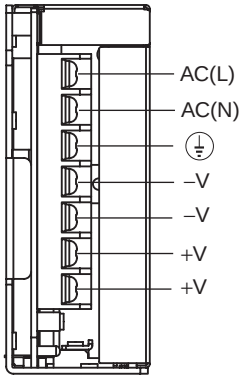
Terminal Arrangement

15-/35-/50-W Models



Note: The S8JC-Z05024C is shown above.

100-/150-/350-W Models



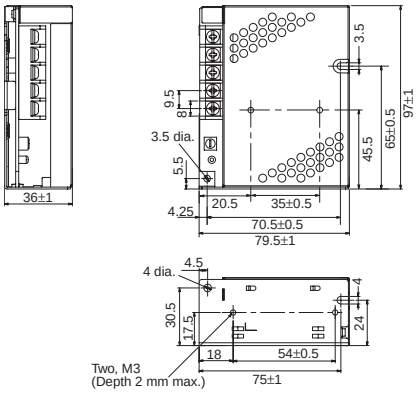
Note: The S8JC-Z10024C is shown above.

Dimensions

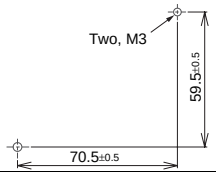
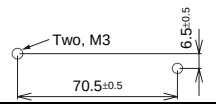
(Unit: mm)

Bottom-mounting Models

S8JC-Z015□□C (15 W)

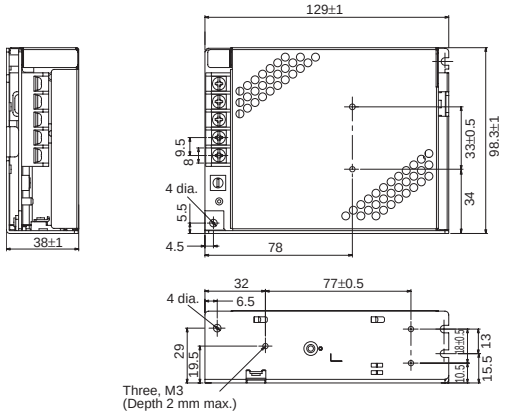


Panel mounting holes dimensions

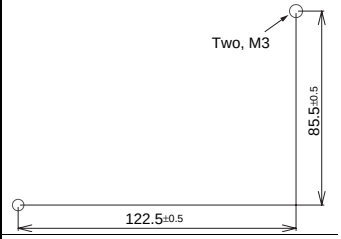
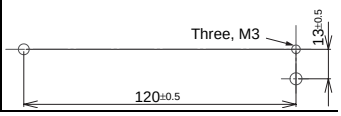
	Surface screw mounting
Side Mounting	
Bottom Mounting	

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.

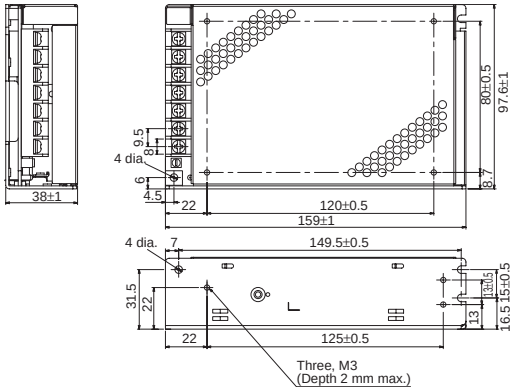
S8JC-Z035□□C (35 W)
S8JC-Z05024C (50 W)



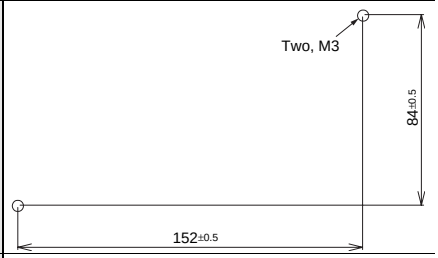
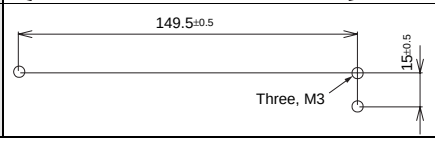
Panel mounting holes dimensions

	Surface screw mounting
Side Mounting	
Bottom Mounting	

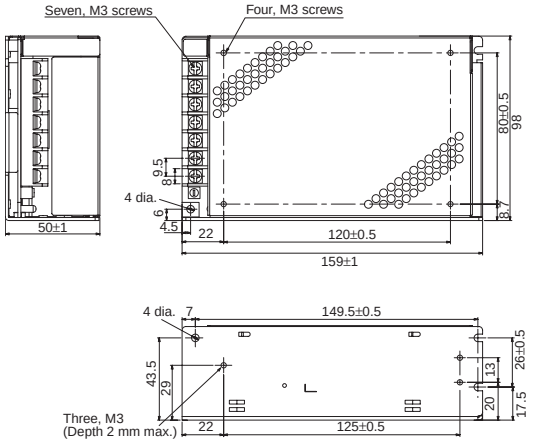
S8JC-Z10024C (100 W)



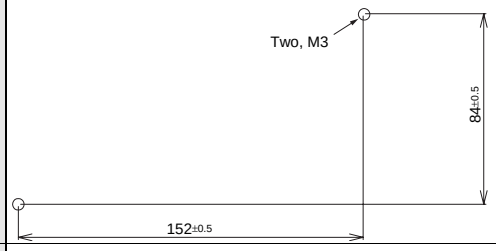
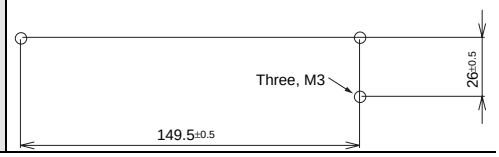
Panel mounting holes dimensions

	Surface screw mounting
Side Mounting	
Bottom Mounting	

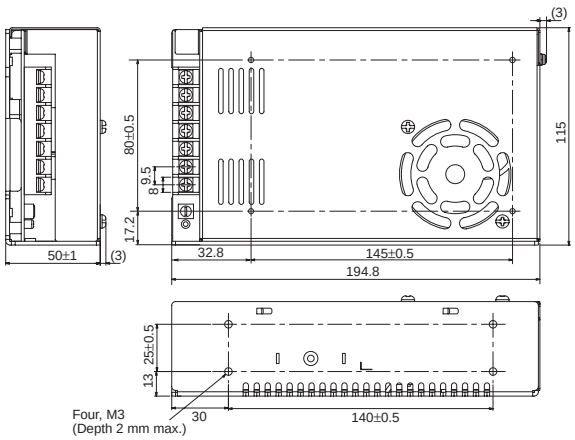
S8JC-Z15024C (150 W)



Panel mounting holes dimensions

	Surface screw mounting
Side Mounting	
Bottom Mounting	

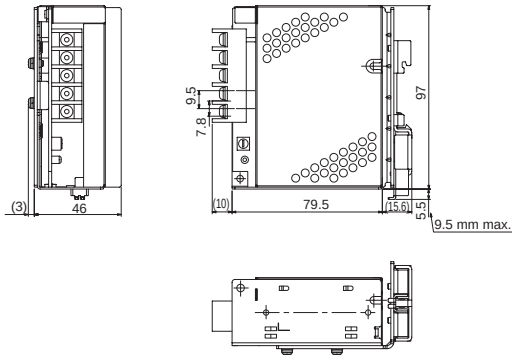
S8JC-Z35024C (350 W)



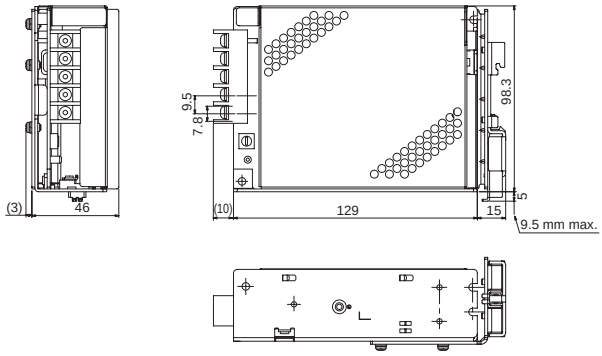
S8JC-Z

DIN Rail-mounting Models

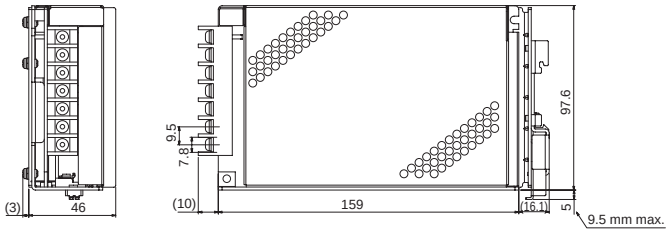
S8JC-Z015□□CD (15 W)



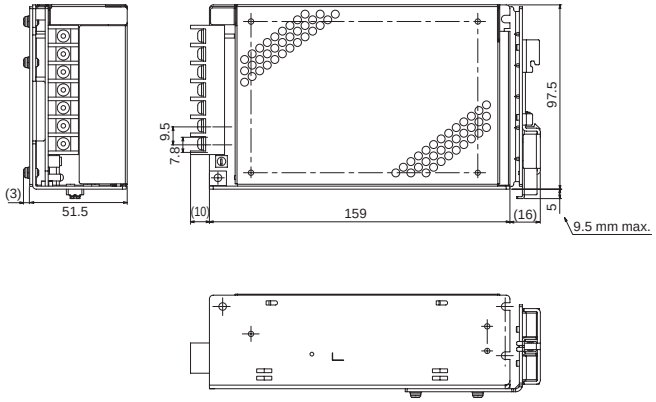
S8JC-Z035□□CD (35 W)
S8JC-Z05024CD (50 W)



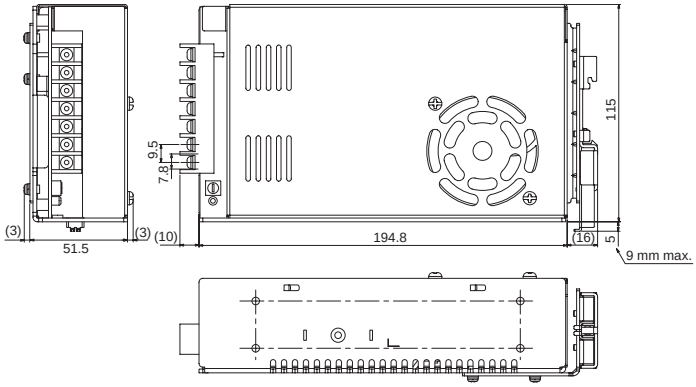
S8JC-Z10024CD (100 W)



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).

Read and Understand this Catalog

Please read and understand this catalog before purchasing the product. Please consult your OMRON representative if you have any questions or comments.

Warranty and Limitations of Liability

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

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IN NO EVENT SHALL OMRON BE RESPONSIBLE FOR WARRANTY, REPAIR, OR OTHER CLAIMS REGARDING THE PRODUCTS UNLESS OMRON'S ANALYSIS CONFIRMS THAT THE PRODUCTS WERE PROPERLY HANDLED, STORED, INSTALLED, AND MAINTAINED AND NOT SUBJECT TO CONTAMINATION, ABUSE, MISUSE, OR INAPPROPRIATE MODIFICATION OR REPAIR.

Application Considerations

SUITABILITY FOR USE

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products.

Take all necessary steps to determine the suitability of the product for the systems, machines, and equipment with which it will be used.

Know and observe all prohibitions of use applicable to this product.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

Disclaimers

CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons.

It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the products may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.