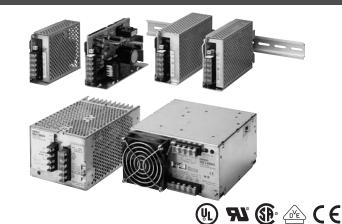
Switch Mode Power Supply \$82J

Low-cost Global Power Supply with CE Marking

- Safety standards:
 UL: UL508, No.60950-1 Class 2,
 CSA: cUL: C22.2 No. 14, cUR: 60950-1 Class 2,
 EN60950-1 (=VDE0805 Teil 1), EN50178 (=VDE0160)
- EMC: Conforms to EN61204-3 Class A
- Mounting bracket available for standard models Front-mounting bracket type DIN-rail mounting type (except 300 W and 600 W)

Note: Refer to Precautions for Safe Use on page 17.



Model Number Structure

■ Model Number Legend

Note: Not all combinations are possible. Please refer to the list of models in Ordering Information on pages 2 and 3.

S82J - 1 2 3 4

1. Power Ratings

010: 10 W 025: 25 W 050: 50 W 100: 100 W 150: 150 W 300: 300 W

2. Output Voltage

600: 600 W

05: 5 V 12: 12 V 15: 15 V 24: 24 V

3. Configuration

10-/25-/50-/100-/150-W models A: Open-frame type, front terminals

D: Covered type, front terminals

Mounting bracket

None: With mounting bracket N: Without mounting bracket

4. Mounting Bracket

None: Front-mounting bracket type
D: DIN-rail mounting bracket type

Ordering Information

■ List of Models

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

Front-mounting Bracket Type

Configuration	Input Voltage	Power ratings	Output voltage	Output current	Front-mounting bracket types (Front terminals)
Open-frame type	100 to 240 VAC (free)	10 W	5 V	2 A	S82J-01005A
			12 V	1 A	S82J-01012A
			15 V	0.7 A	S82J-01015A
			24 V	0.5 A	S82J-01024A
		25 W	5 V	5 A	S82J-02505A
			12 V	2.1 A	S82J-02512A
			15 V	1.7 A	S82J-02515A
			24 V	1.1 A	S82J-02524A
		50 W	5 V	10 A	S82J-05005A
			12 V	4.2 A	S82J-05012A
			24 V	2.1 A	S82J-05024A
	100 or 200 VAC	100 W	5 V	20 A	S82J-10005A
	(selected automatically)		12 V	8.5 A	S82J-10012A
			15 V	7 A	S82J-10015A
	100 to 240 VAC (free)		24 V	4.5 A	S82J-10024A
	100 or 200 VAC (selected automatically)	150 W	24 V	6.5 A	S82J-15024A
Covered type	100 to 240 VAC (free)	10 W	5 V	2 A	S82J-01005D
			12 V	1 A	S82J-01012D
			15 V	0.7 A	S82J-01015D
			24 V	0.5 A	S82J-01024D
		25 W	5 V	5 A	S82J-02505D
			12 V	2.1 A	S82J-02512D
			15 V	1.7 A	S82J-02515D
			24 V	1.1 A	S82J-02524D
		50 W	5 V	10 A	S82J-05005D
			12 V	4.2 A	S82J-05012D
			24 V	2.1 A	S82J-05024D
	100 or 200 VAC	100 W	5 V	20 A	S82J-10005D
	(selected automatically)		12 V	8.5 A	S82J-10012D
			15 V	7 A	S82J-10015D
	100 to 240 VAC (free)		24 V	4.5 A	S82J-10024D
	100 or 200 VAC (selected automatically)	150 W	24 V	6.5 A	S82J-15024D
	100 or 200 VAC (selectable)	300 W	24 V	14 A	S82J-30024
					S82J-30024N
		600 W		27 A	S82J-60024
					S82J-60024N

DIN-rail Mounting Bracket Type

Configuration	Input Voltage	Power ratings	Output voltage	Output current	DIN-rail mounting bracket types (Front terminals)
Open-frame type	100 to 240 VAC (free)	10 W	5 V	2 A	S82J-01005AD
			12 V	1 A	S82J-01012AD
			15 V	0.7 A	S82J-01015AD
			24 V	0.5 A	S82J-01024AD
		25 W	5 V	5 A	S82J-02505AD
			12 V	2.1 A	S82J-02512AD
			15 V	1.7 A	S82J-02515AD
			24 V	1.1 A	S82J-02524AD
		50 W	5 V	10 A	S82J-05005AD
			12 V	4.2 A	S82J-05012AD
			24 V	2.1 A	S82J-05024AD
	100 or 200 VAC	100 W	5 V	20 A	S82J-10005AD
	(selected automatically)		12 V	8.5 A	S82J-10012AD
			15 V	7 A	S82J-10015AD
	100 to 240 VAC (free)		24 V	4.5 A	S82J-10024AD
	100 or 200 VAC (selected automatically)	150 W	24 V	6.5 A	S82J-15024AD
Covered type	100 to 240 VAC (free)	10 W	5 V	2 A	S82J-01005DD
			12 V	1 A	S82J-01012DD
			15 V	0.7 A	S82J-01015DD
			24 V	0.5 A	S82J-01024DD
		25 W	5 V	5 A	S82J-02505DD
			12 V	2.1 A	S82J-02512DD
			15 V	1.7 A	S82J-02515DD
			24 V	1.1 A	S82J-02524DD
		50 W	5 V	10 A	S82J-05005DD
			12 V	4.2 A	S82J-05012DD
			24 V	2.1 A	S82J-05024DD
	100 or 200 VAC	100 W	5 V	20 A	S82J-10005DD
	(selected automatically)		12 V	8.5 A	S82J-10012DD
			15 V	7 A	S82J-10015DD
	100 to 240 VAC (free)		24 V	4.5 A	S82J-10024DD
	100 or 200 VAC (selected automatically)	150 W	24 V	6.5 A	S82J-15024DD

Specifications

■ Ratings/Characteristics

Power ratings (See note 1.)			100 to 240 V (Free)			100/200 (Selected automatically)		100/200 (Selected)			
		10 W	25 W	50 W	100 W (24 V)	100 W (5 V, 12 V, 15 V)	150 W	300 W	600 W		
Efficiency (typical)		67% min. (Varies depending on specifications) 83% min. 75% min. 82% min.									
Input Voltage (See note 2.)		9 2.)	100 to 240 V	•	,		100 VAC (85 to		100 VAC (85 to		
	l l		110 to 170 VDC (10-W and 25-W models only) (See note 11.) 200 VAC (170 to 264 VAC) (selected automatically)				200 VAC (170 t (selectable)	o 253 VAC)			
	Frequency (See r		50/60 Hz (47		1		,	,		1	
	Current (See note 3.)	100-V input	0.35 A max.		1.4 A max.	2.5 A max.	2.5 A max.	3.5 A max.	8 A max.	14 A max.	
		200-V input	0.3 A max.	0.6 A max.	0.8 A max.	1.5 A max.	1.4 A max.	2.1 A max.	4 A max.	7 A max.	
	Leakage current (See note 3.)	100-V input	0.5 mA max.	•							
	Inrush current (See note 3.)	200-V input 100-V input	1 mA max. 25 A max. (for cold start at 25°)						30 A max. (for cold start at 25°)		
	(See flote 3.)	200-V input	50 A max. (for cold start at 25°)						60 A max. (for cold start at 25°)		
	Noise filter		Yes							otarrar 20)	
Output (See	Voltage Adjustme (See note 5.)	ent Range	±10% (with V	/. ADJ)							
note 4.)	Ripple (See note	3.)	2% (p-p) ma	х.							
	Input variation inf	luence	0.4% max.								
	Load variation inf	luence	0.8% max. (10% to 100%	% load, rated in	nput voltage)					
	Temperature varia	ation	0.05%/° max	x. (at rated in	put and outpu	it)					
	Start up time		500 ms max	. (up to 90%	of output volta	age at rated in	put and output)			300 ms max. (up to 90% of output voltage at rated input and output)	
	Hold time (See no	ote 3.)	20 ms min.	20 ms min.							
Addi- tional func- tions	ional 6.) func-		and 25-W models) gradual current increase/ voltage drop, intermittent operation (50- W, 100-W (24 V) models), automatic reset L voltage drop, intermittent operation (50- the 600-W shut OFF v					L voltage drop,	oad current, Inverted automatic reset (For el, the circuit will be the overload		
	Overvoltage protection		No			Yes (See note 7.)	Yes (5-V output only) (See note 7.)	No	Yes (See note 8	3.)	
	Overheat protecti	on	No Yes (See note 8.)								
	Parallel operation	1	No					Yes (up to 5 units)			
	Protection-ON ala	arm indicator	No Yes (color: red)								
Other	Operating ambier temperature	nt	Refer to the derating curve in Engineering Data. (with no icing or condensation)								
	Storage temperat		-25 to 65°C (with no icing or condensation)								
	Operating ambier		25% to 85% (Storage humidity: 25% to 90%)								
	Dielectric strength	n	3.0 k VAC for 1 min. (between all inputs and all outputs) 2.2 k VAC for 1 min. (between all inputs and all outputs/PE terminals) 1.0 k VAC for 1 min. (between all outputs and all PE terminals)								
	Insulation resistar	nce	100 MΩ min. (between all outputs and all inputs/ PE terminals) at 500 VDC								
	Vibration resistan	ce	10 to 55 Hz, 0.375-mm single amplitude for 2h each in X, Y, and Z directions								
	Shock resistance		300m/s², 3 times each in ±X, ±Y, ±Z directions								
	Output indicator		Yes (color: green)								
	EMI	Conducted Emissions (See note 3.)	Conforms to	EN61204-3	EN55011 Clas	ss A and base	ed on FCC Class	Α			
		Radiated Emissions	Conforms to EN61204-3 EN55011 Class A (See note. 9)								
	EMS Approved standards		Conforms to EN61204-3 Low severity levels								
			5-V output), an models.) CSA: cUL: C2 60950-1 (Class	ved for 10-W, 2 nd 50-W (only for 2.2 No.14 (Class 2 approved for	25-W (except for or 24-V output) ss 2), cUR: No. or 10-W, 25-W	CSA: cUL: C2: EN/VDE: EN5 (VDE0805 Teil	isting), 1012, 60950 2.2 No. 14, cUR: No 50178 (VDE0160), I I 1)	o. 60950-1 EN60950-1	CSA: cUL: C22.2 1 EN/VDE: EN5017	g), 1012, 60950-1 No. 14, cUR: No. 60950- 78 (VDE0160),	
			(except for 5-V V output) mode EN/VDE: EN5 (VDE0805 Teil Term VDE0106/P10	output), and 50 els.) 0178 (VDE016 1) inal types (only 0	0-W (only for 24- 60), EN60950-1 y terminal part):	VDE0106/P10 Based on VE0	ninal types (only ter 0	minal part):	EN60950-1 (VDE	0805 Teil 1) pes (only terminal part):	
			Based on VE0		400 c mo:	500 a may	1 000 a may		2 000 a may	2 500 g mov	
Weight			250 g max.	350 g max.	400 g max.	500 g max.	1,000 g max.		2,000 g max.	2,500 g max.	

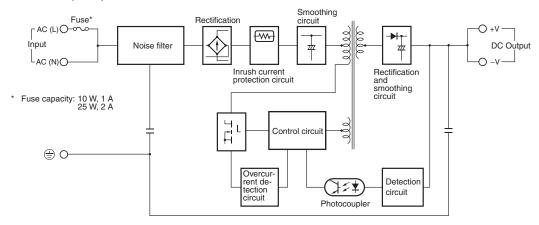
- Note: 1. When a load is connected that has a built-in DC-DC converter, the overload protection may operate at startup and the power supply may not start.
 - Refer to the Overload Protection section on page 10 for details.
 - 2. Do not use the Inverter output for the Power Supply. Inverters with an output frequency of 50/60 Hz are available, but the rise in the internal temperature of the Power Supply may result in ignition or burning.
 - 3. Defined with a 100% load and the rated input voltage (100 or 200 VAC.)
 - 4. The output specification is defined at the Power Supply output terminals.
 - 5. If the V. ADJ adjuster is turned the voltage will increase by more than +10% of the voltage adjustment range.

 When adjusting the output voltage, confirm the actual output voltage from the Power Supply and be sure that the load is not damaged.
 - 6. Refer to the Overload Protection section on page 10 for details.
 - 7. For resetting, turn OFF the power, leave for more than one minute, and then turn it ON again.
 - 8. The protection-ON alarm indicator will light as soon as the output is interrupted. For resetting, turn OFF the input power, leave for more than three minutes (90 seconds min. for the 300-W models), and then turn it back ON again.
 - 9. Radiated emissions: The noise value is affected by factors such as the wiring method. For 300-W and 600-W models, use shielded wire for all wiring, and insert one noise clamp filter (TDK, ZCAT3035-1330) on the input wire, and two noise clamp filters on the load wire.
 - 10. The weight indicated is the weight of the open-frame type. (Includes the covers for 300-W and 600-W models)
 - 11.Use with DC voltage input is beyond the conditions of approval or conformance to applicable safety standards.

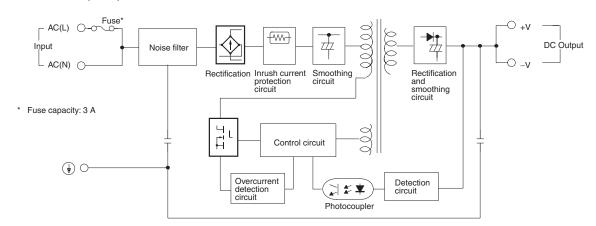
Connections

■ Block Diagrams

S82J-010 (10 W) S82J-025 (25 W)

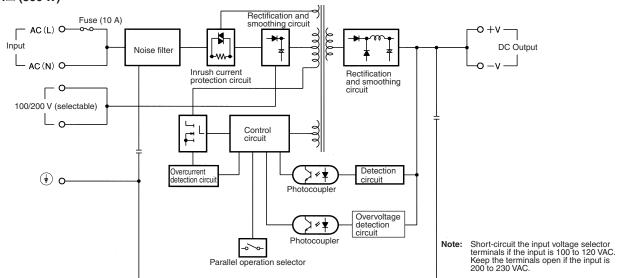


S82J-050□□□□ (50 W)

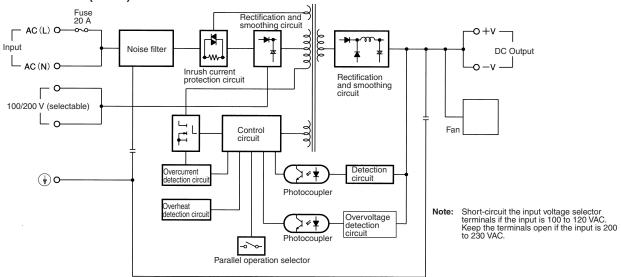


S82J-100□□□□ (100 W, 5-/12-/15-V Output) - O + V − DC Output Noise filter $+\infty$ LAC (N)O-Inrush current protection circuit (selected auto-matically) Rectification and smoothing circuit Rectification and smoothing circuit * Fuse capacity: 5 A Control circuit Detection **O** Overcur-rent de-tection circuit Photocoupler Overvoltage protection circuit (5 V only) S82J-10024 (100 W, 24-V Output) Fuse (5 A) -O +V (W) DC Output Input Noise filter L AC(N) Rectification Inrush current Smoothing protection circuit Rectification and and smoothing circuit Control circuit () O-Overcurrent detection circuit Detection circuit ⋧ Photocoupler Overvoltage detection **>**| **≠ ≠** circuit Photocoupler S82J-15024□□ (150 W) AC (L) O-0 Fuse (8 A) -O +V − 2000 DC Output Input Noise filter L AC (N) Rectification 100 or 200 V (selected au-tomatically) Inrush current protection circuit Rectification and smoothing circuit Ħ, Control circuit Detection (1) O-Overcurrent detection circuit **≥ ≠** circuit Photocoupler

S82J-30024□ (300 W)



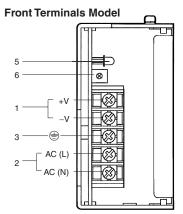
S82J-60024□ (600 W)



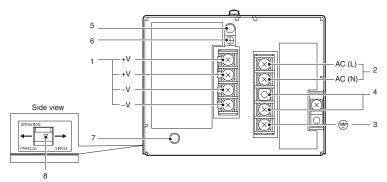
Construction and Nomenclature

■ Nomenclature

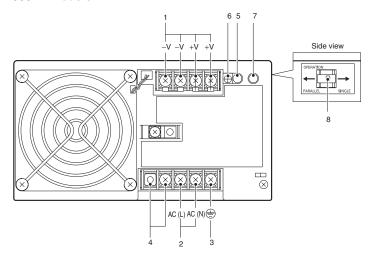
10-/25-/50-/100-/150-W Models



300-W Models



600-W Models

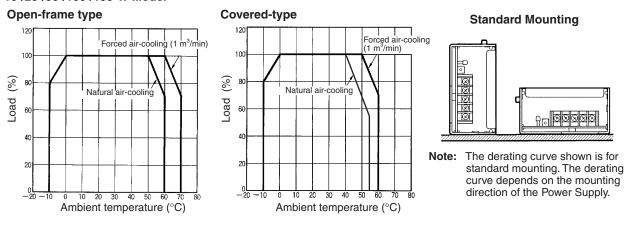


- DC Output Terminals: Connect the load lines to these terminals.
- 2. AC Input Terminals: Connect the input lines to these terminals.
- Note: 1. The fuse is located on the (L) side. It is NOT user replaceable.
 - For DC input (10-W, 25-W models), use the (L) terminal as the positive terminal.
- PE Terminal/Protective earthing terminal: Connect the ground line to this terminal.
- Input Voltage Selector Terminals: Short-circuit the terminals if the input is 100 to 120 VAC and open the terminals if the input is 200 to 230 VAC
- Output Indicator (DC ON: Green): Lights while a Direct Current (DC) output is ON.
- Output Voltage Adjuster (V.ADJ): It is possible to increase or decrease the output voltage by 10%.
- 7. Protection-ON Alarm Indicator (DC ON: Red): The red indicator will be lit if the overvoltage (for a 300-/600-W model) or overheat protection (for a 600-W model) circuit is triggered. This indicator will also be lit when overcurrent (for a 600-W model) is detected.
- **8. Parallel/Single Operation Selector:** Set the selector to PARALLEL if the Units are in parallel operation.

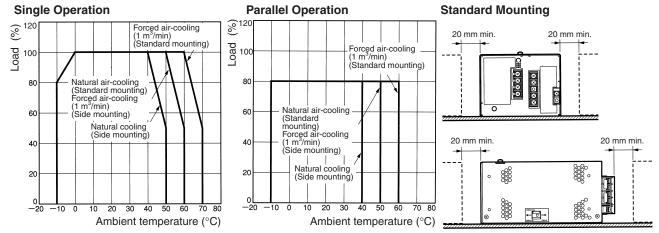
Engineering Data

■ Derating Curve (for standard mounting)

10-/25-/50-/100-/150-W Model

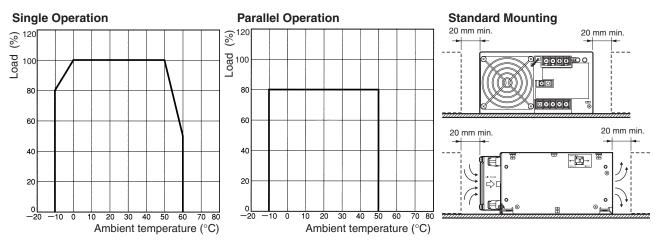


300-W Model



Note: Provide a minimum clearance of 20 mm between the Power Supplies.

600-W Model



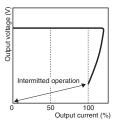
Note: Provide a minimum clearance of 20 mm between the Power Supplies.

■ Overload Protection

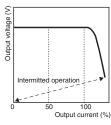
10- to 300-W Models

The Power Supply is provided with an overload protection function that protects the power supply from possible damage by overcurrent. When the output current rises above 105% to 160% of the rated output current, the protection function is triggered, automatically decreasing the output voltage. When the output current falls within the rated range, the overload protection function is automatically cleared.

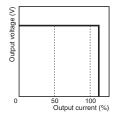
10 W, 25 W Models



50 W, 100 W (24 V) Models

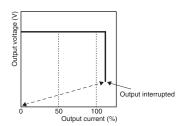


100 W (5 V, 12 V, 15 V), 150 W, 300 W Models



- Note: 1. If the S82J is connected to a load with a built-in DC-DC converter, the overload protection function may be triggered at startup, and consequently the S82J may not operate.
 - Internal parts may occasionally deteriorate or be damaged if a short-circuited or other overcurrent state continues during operation.
 - Eliminate the overcurrent state as soon as possible.
 - 3. In actual operation, the output voltage may not fall to 0 V when the overload protection function is triggered. Even with short-circuits on the load side, the drop in voltage will vary depending on factors such as the impedance in the load line.
 - 4. The overload protection function is activated at 105% of the rated output current for 300-W models.

600-W Models



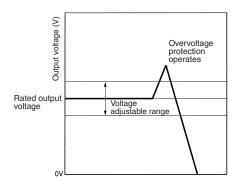
If an excessive current flows for 5 s or more, the output will be turned OFF and simultaneously the protection-ON alarm indicator will be lit. To reset the S82J, turn OFF the power, leave the S82J for at least three minutes, and then turn ON the power again.

Note: Internal parts may occasionally deteriorate or be damaged if a short-circuited or other overcurrent state continues during operation.

Eliminate the overcurrent state as soon as possible.

■ Overvoltage Protection 100-W (5-, 24-V Output) Models

Consider the possibility of an overvoltage and design the system so that the load will not be subjected to an excessive voltage even if the feedback circuit in the Power Supply fails. When an excessive voltage that is approximately 120% of the rated voltage or more is output, the output voltage is shut OFF, preventing damage to the load due to overvoltage. Reset the power by turning it OFF for at least one minute and then turning it back ON again.



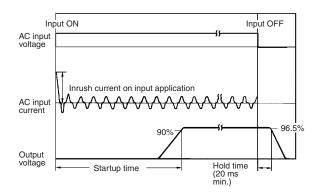
300- and 600-W Models

When an excessive voltage that is approximately 120% of the rated voltage or more is output, the output voltage will be turned OFF and simultaneously the protection-ON alarm indicator will be lit. To reset the S82J, turn OFF the power, leave the S82J for at least three minutes if it is a 600-W model or at least 90 seconds if it is a 300-W model, and then turn it back ON again.

■ Overheat Protection Function 600-W Models Only

If the internal temperature of the S82J rises excessively as a result of fan failure or any other reason, the overheat protection circuit will be triggered to protect the internal elements of the S82J and simultaneously the protection-ON alarm indicator will be lit. To reset the S82J, turn OFF the power, leave the S82J for at least three minutes, and then turn it back ON again.

■ Inrush Current, Startup Time, Hold Time



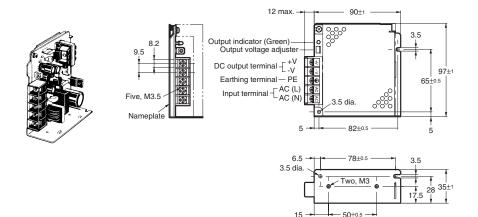
Dimensions

Note: All units are in millimeters unless otherwise indicated.

Open-frame type and covered type have the same dimensions.

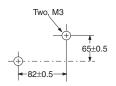
■ Front-mounting Bracket Type

S82J-010□□□ (10 W)



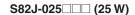
Mounting Holes (Surface Screw Mounting)

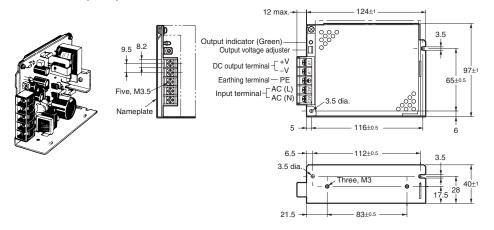
Side Mounting



Bottom Mounting

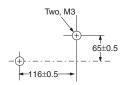






Mounting Holes (Surface Screw Mounting)

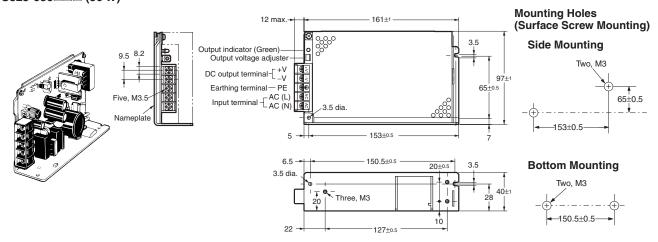
Side Mounting

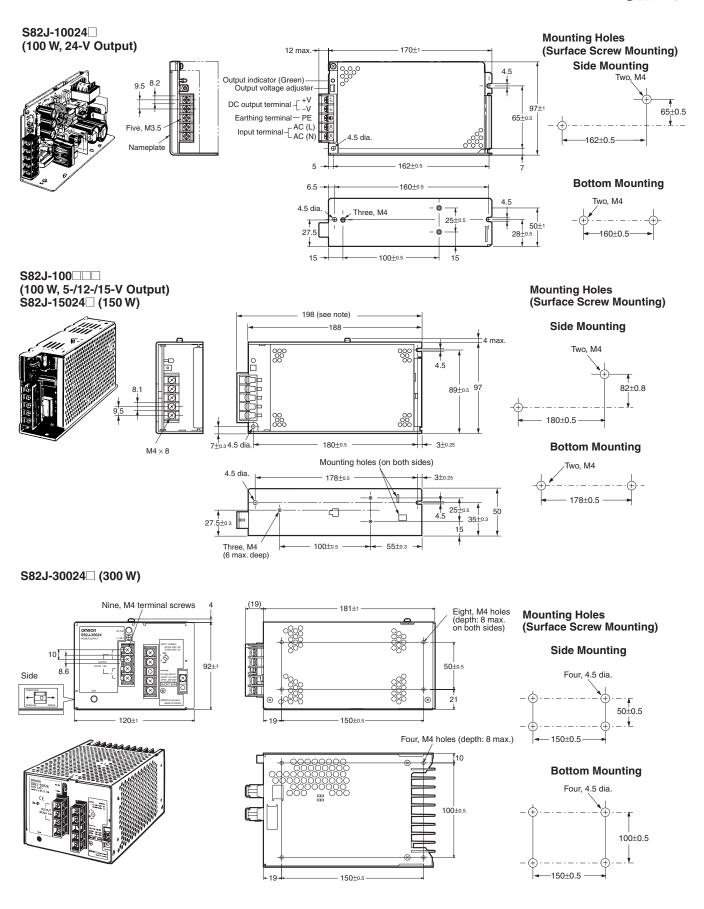


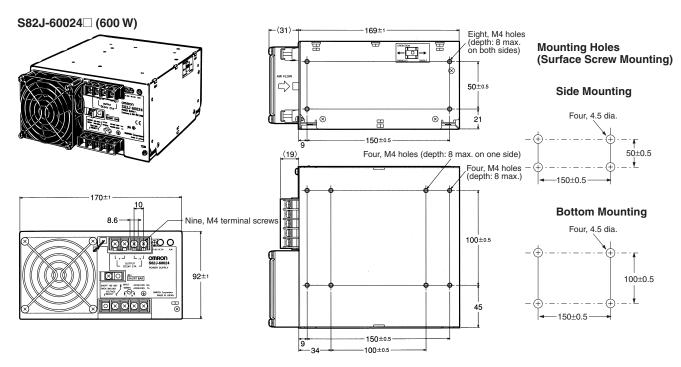
Bottom Mounting



S82J-050□□□ (50 W)



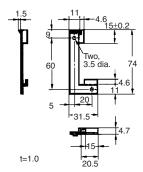




Dimensions with Mounting Brackets (Provided)

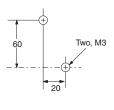
For 10-/25-/50-/100 (24 V)-W Models

Front-mounting Bracket (Provided)



Material: Stainless steel

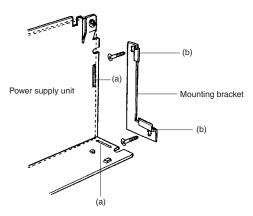
Mounting Holes



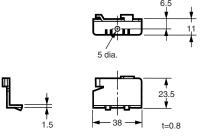
Using the Mounting Bracket

Attach the mounting bracket to the panel and loosely tighten the two screws. Insert the projected parts of the bracket (b) to the square holes of the power supply (a). Then securely tighten the screws.

Note: The mounting screws must be ordered separately.

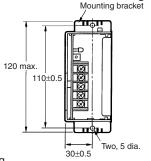


For 100- (5, 12, 15 V) and 150-W Models Front-mounting Bracket (Provided)

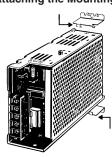


Note: The brackets are for front-mounting.

Dimensions with Mounting Brackets



Attaching the Mounting Brackets



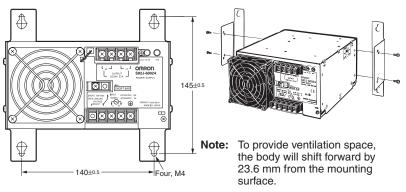
300-W and 600-W Models

Note: A mounting bracket is included with the S82J-30024 and S82J-60024, but not with the S82J-30024N and S82J-60024N.

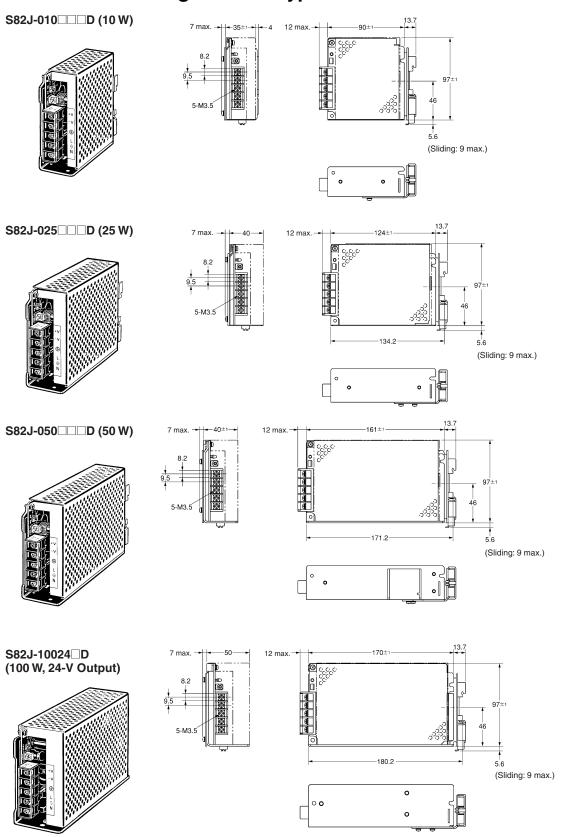
Front-mounting Bracket Dimensions with Mounting Brackets Attaching the Mounting Brackets For 300-W Models (S82Y-J30F) 10,dia. For 300-W Models For 300-W Models 145±0.5 145±0.5 160 0 92 t=1.6 ***** Note: To provide ventilation \$ space, the body will shift 36.4±0.2 forward by 21.6 mm from Four, M4 the mounting surface.

Note: Mounting Brackets are provided in a set, one for the right side and one for the left side.

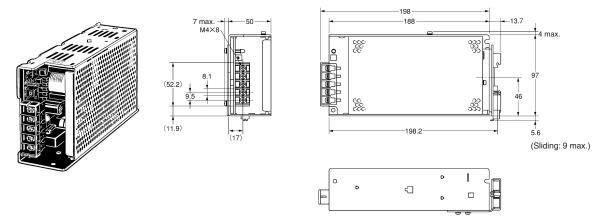
Dimensions with Mounting Brackets Attaching the Mounting Brackets For 600-W Models For 600-W Models



■ DIN-rail Mounting Bracket Type



S82J-100□□□D (100 W, 5-/12-/15-V Output) S82J-15024□D (150 W)



■ Front-mounting Bracket for S82J-10024A/-10024D Power Supply (Order Separately)

Product Model number Dimensions Mounting hole dimensions

Front-mounting Bracket

S82Y-J10F

Three, 4.5-dia. holes

Three, 4.5-dia. holes

Three, M4

Three, M4

Three, M4

Three, M4

Note: These Front-mounting brackets cannot be used with S82J 100-W (5, 12, or 15-V) or 150-W models.

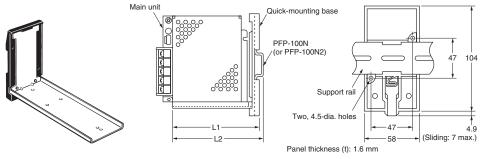
■ DIN-rail Mounting Bracket (Order Separately)

Can be used with 10-W to 150-W Front-mounting bracket models.

If DIN-rail mounting is necessary, use a DIN-rail Mounting Bracket.

Model	Power Rating	Applicable Quick- mounting Base
S82J	10 W	S82Y-01N
	25 W	S82Y-03N
	50 W	S82Y-05N
	100 W, 150 W	S82Y-10N





Size

Model	L1	L2 (See note.)
S82Y-01N	113	114.8
S82Y-03N	143	144.8
S82Y-05N	163	164.8
S82Y-10N	185	186.8

Note: The L2 dimension refers to using the PFP-100N on a DIN-rail. When using the PFP-100NS, add 10.5 mm to L2.

Safety Precautions

∕!∖ CAUTION

Minor electric shock, fire, or Product failure may occasionally occur. Do not disassemble, modify, or repair the Product or touch the interior of the Product.



Minor burns may occasionally occur. Do not touch the Product while power is being supplied or immediately after power is turned OFF.



Fire may occasionally occur. Tighten terminal screws to the specified torque 0.74 N·m for 10-, 25-, 50-, or 100-W models (24-V output); or 1.08 N·m for 100- (5-, 12-, or 15-V output), 150-, 300-, or 600-W models.



Minor injury due to electric shock may occasionally occur. Do not touch the terminals while power is being supplied.



Minor electric shock, fire, or Product failure may occasionally occur. Do not allow any pieces of metal or conductors or any clippings or cuttings resulting from installation work to enter the Product.



■ Precautions for Safe Use

Mounting

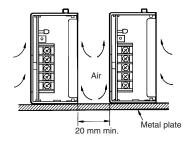
To improve and maintain the reliability of the Power Supply over a long period of time, adequate consideration must be given to heat radiation.

The Power Supply is designed to radiate heat by means of natural air-flow. Therefore, mount the Power Supply so that air flow takes place around the Power Supply.

When mounting the Power Supply, mounting it to a metal plate is recommended.

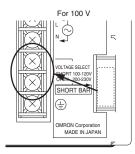
When mounting two or more Power Supplies side-by-side, allow at least 20 mm spacing between them, as shown in the following illustration.

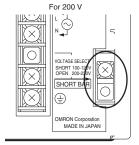
Forced air-cooling is recommended.



Switching the AC Input Voltage between 100 and 200 V (300- and 600-W Models)

The input voltage can be switched between 100 and 200 V by shorting or opening the input voltage selection terminals. Set the required voltage as shown below. (The voltage is factory-set to 200 V.)





Short with the short bar.

Remove the short bar and leave the terminals open

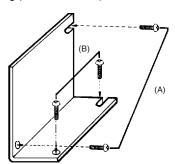
Note: A 300-W Model is shown above.

Mounting Methods

The following mounting methods are available.

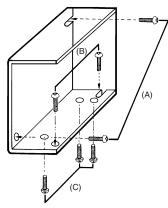
10-/25-/50-/100 (24 V)-W Models

- (A) Side mounting
- (B) Bottom mounting
- (C) Front mounting (see Accessories)

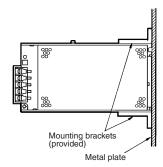


100 (5, 12, 15 V)/150-/300-/600-W Models

- (A) Side mounting
- (B) Bottom mounting (secured with screws from the inside of the Switching Power Supply) (except for 300- and 600-W models)
- (C) Bottom mounting (secured with screws from the back of the Switching Power Supply)

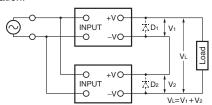


(D) Front mounting Front mounting is possible with the mounting brackets provided. Refer to *Dimensions* on page 11.



Series Operation

Only models with power ratings of 50, 100, 150, 300, or 600-W allow series operation.



Model	Output capacity	Rated output voltage	
S82J	100 W	5, 12, 15, 24 VDC	
	50, 150, 300, 600 W	24 VDC	

Up to two of the above Power Supplies can be used in series operation.

Models other than the above Power Supplies cannot be used in series operation.

If series operation is attempted for other models, the output from one of the Power Supplies may not come ON when the AC input is applied. If that occurs and the Power Supplies are left in that state, internal circuits may be damaged.

Although Power Supplies having different specifications can be connected in series, the current flowing through the load must not exceed the smaller rated output current.

With the S82J-05024 \square or S82J-10024 \square , if the load is shorted a reverse voltage may result in the Power Supply causing deterioration and damage. It is recommended that diodes are connected as shown in the previous diagram (D₁, D₂).

Туре	Schottky barrier diode
Dielectric strength (VRRM)	Twice the rated output voltage or above
Forward current (IF)	Twice the rated output current or above

Parallel Operation

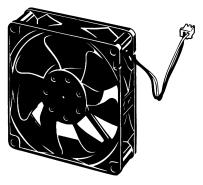
Only 300- and 600-W models can be in parallel operation. Do not operate any other models in parallel. The output of the models in parallel operation is a maximum of 80% of the rated output.

Set the parallel operation selector to PARALLEL if the Units are in parallel operation and make sure that the thickness and the length of all wires connected to the load are the same to ensure that the wires will have no voltage drop differences.

Fan Replacement

The service life of the fan is approximately 50,000 hours (at 25° C). The service life varies, however, depending on the ambient temperature or other surrounding environmental conditions such as dust. As a preventive maintenance measure, replace the fan within two years if it is used at an ambient temperature of $40^{\circ}\,\text{C}$.

Fans are available as replacements.

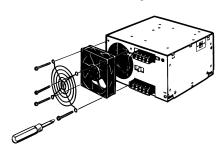


Model: S82Y-JFAN

Fan Set:

Fan (above), four M4 x 35 sems screws, instruction sheet, and packing case $\,$

Replace the fan as shown in the following illustration.



Warranty and Application Considerations

Read and Understand this Catalog

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Warranty and Limitations of Liability

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Application Considerations

SUITABILITY FOR USE

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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.

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Product specifications and accessories may be changed at any time based on improvements and other reasons. Consult with your OMRON representative at any time to confirm actual specifications of purchased product.

DIMENSIONS AND WEIGHTS

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

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ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. T036-E3-01

In the interest of product improvement, specifications are subject to change without notice.