OMRON

Switching Power Supply

S82J

Open-Frame, Covered-Frame, or Enclosed-Frame Type with Capacity Up to 600 W

- Models range from 10 to 600 W
- UL 508 approval on 100-W 150-W, 300-W, and 600-W models
- Wide range of output voltages: 5 V, 12 V, 15 V, or 24 V
- UL, CSA, VDE, and CE Approvals
- 10- to 150-W models can easily be DIN-rail mounted with S82Y bracket (sold separately)
- 3-Year warranty

Ordering Information

OPEN-FRAME TYPE POWER SUPPLIES

Power ratings	Output voltage/current				Part number	
	5 V	12 V	15 V	24 V	120 VAC input	240 VAC input
10 W	2 A	—	—	—	**S82J-0105**	**S82J-2105**
	—	1 A	—	—	**S82J-0112**	**S82J-2112**
	—	—	0.7 A	—	**S82J-0115**	**S82J-2115**
	—	—	—	0.5 A	**S82J-0124**	**S82J-2124**
25 W	5 A	—	—	—	**S82J-0205**	**S82J-2205**
	—	2.1 A	—	—	**S82J-0212**	**S82J-2212**
	—	—	1.7 A	—	**S82J-0215**	**S82J-2215**
	—	—	—	1.1 A	**S82J-0224**	**S82J-2224**
50 W	10 A	—	—	—	**S82J-0505**	**S82J-2505**
	—	4.2 A	—	—	**S82J-0512**	**S82J-2512**
	—	—	—	2.1 A	**S82J-0524**	**S82J-2524**
100 W	20 A	—	—	—	**S82J-10005A1**	**S82J-10005A2**
	—	8.5 A	—	—	**S82J-10012A1**	**S82J-10012A2**
	—	—	7.0 A	—	**S82J-10015A1**	**S82J-10015A2**
	—	—	—	4.5 A	**S82J-1024**	**S82J-2024**
150 W	—	—	—	6.5 A	**S82J-15024A1**	**S82J-15024A2**

Note: A mounting bracket is included with each power supply.

■ COVERED-FRAME TYPE POWER SUPPLIES

Power ratings	Output voltage/current				Part number	
	5 V	12 V	15 V	24 V	120 VAC input	240 VAC input
10 W	2 A	—	—	—	**S82J-5105**	**S82J-6105**
	—	1 A	—	—	**S82J-5112**	**S82J-6112**
	—	—	0.7 A	—	**S82J-5115**	**S82J-6115**
	—	—	—	0.5 A	**S82J-5124**	**S82J-6124**
25 W	5 A	—	—	—	**S82J-5205**	**S82J-6205**
	—	2.1 A	—	—	**S82J-5212**	**S82J-6212**
	—	—	1.7 A	—	**S82J-5215**	**S82J-6215**
	—	—	—	1.1 A	**S82J-5224**	**S82J-6224**
50 W	10 A	—	—	—	**S82J-5505**	**S82J-6505**
	—	4.2 A	—	—	**S82J-5512**	**S82J-6512**
	—	—	—	2.1 A	**S82J-5524**	**S82J-6524**
100 W	20 A	—	—	—	**S82J-10005D1**	**S82J-10005D2**
	—	8.5 A	—	—	**S82J-10012D1**	**S82J-10012D2**
	—	—	7.0 A	—	**S82J-10015D1**	**S82J-10015D2**
	—	—	—	4.5 A	**S82J-5024**	**S82J-6024**
150 W	—	—	—	6.5 A	**S82J-15024D1**	**S82J-15024D2**

Note: A mounting bracket is included with each power supply.

■ ENCLOSED-FRAME TYPE POWER SUPPLIES

Input voltage	Power rating	Output		Part number
		Voltage	Current	
120 or 240 VAC (selectable)	300 W	24 V	14.0 A	**S82J-30024**
	600 W	24 V	27.0 A	**S82J-60024**

Note: 1. A mounting bracket is included with each power supply.
2. To order without a mounting bracket (normally included with the 300 W or 600 W), add an “N” at the end of the part number.
3. For other accessories, refer to the *Accessories* section below.

■ ACCESSORIES

Description	Applicable power supplies	Part number
DIN-rail mounting bracket	for 10-W models	**S82Y-01N**
	for 25-W models	**S82Y-03N**
	for 50-W models	**S82Y-05N**
	for 100-W and 150-W models	**S82Y-10N**
DIN-rail	1 m (3.28 ft) length for 10- to 150-W models	**PFP-100N/PFP-100N2**
	0.5 m (1.64 ft) length for 10- to 150-W models	**PFP-50N**
Cover	for 10-W models	**S82Y-J01K**
	for 25-W models	**S82Y-J02K**
	for 50-W models	**S82Y-J05K**
	for 100-W, 24-V models	**S82Y-J10K**
Fan	for 600-W models	**S82Y-JFAN**
Ferrite ring core (a set of 3 pieces in package)		**S82Y-JC-T**
Noise filter	for 300-W models	**S82Y-JF3-N**
	for 600-W models	**S82Y-JF6-N**

■ MODEL NUMBER LEGEND

S82J 10-/25-/50-/100-W (24 V) Models

S82J - □ □ □ □
1 2 3

1. Input voltage/configuration
- 0,1: 100-120 VAC/Open-frame type
- 2: 200-240 VAC/Open-frame type
- 5: 100-120 VAC/Covered-type
- 6: 200-240 VAC/Covered-type

2. Power ratings
- 1: 10 W
- 2: 25 W
- 5: 50 W
- 0: 100 W

3. Output voltage
- 05: 5 V
- 12: 12 V
- 15: 15 V
- 24: 24 V (for S82J-1024/ 2024/5024/6024)

S82J 100 (5,12,15 V)/150-/300-/600-W Models

S82J - □ □ □ □ □ □ □
1 2 3 4

1. Power ratings
- 100: 100 W
- 150: 150 W
- 300: 300 W
- 600: 600 W

2. Output voltage
- 05: 5 V
- 12: 12 V
- 15: 15 V
- 24: 24 V

3. Configuration
- A: Open-frame type, front terminals
- D: Covered-type, front terminals
- None: Enclosed-type, front terminals

4. Input Voltage
- 1: 100-120 VAC
- 2: 200-240 VAC
- None: 120/240 VAC (selectable)

Specifications

■ S82J MODELS (10/25/50 W AND 100 W AT 24 V)

Item		120 VAC input				240 VAC input			
		10 W	25 W	50 W	100 W	10 W	25 W	50 W	100 W
Efficiency (typical)		70% (at 5 V output) to 86% (24 V output)							
Life expectancy		8 yrs. min. (Used at 40°C at the rated input with a 50% load, standard installation)							
Input									
Voltage	AC	85 to 132 VAC				170 to 264 VAC			
	DC	110 to 170 VDC (See Note 1.)				No			
Frequency		47 to 450 Hz							
Current (See Note 2.)		0.35 A max.	0.8 A max.	1.4 A max.	2.5 A max.	0.3 A max.	0.6 A max.	0.8 A max.	1.5 A max.
Leakage current (See Note 2.)		0.5 mA max.				1 mA max.			
Inrush current (See Note 2.)		25 A max.				50 A max.			
Noise filter		Yes							
Output (See Note 3.)									
Voltage adjustment range		±10% adjustable with variable resistor (V.ADJ)							
Ripple		2% (p-p) max.							
Input variation influence		0.4% max. (at 85 to 132 VAC input, 100% load)				0.4% max. (at 170 to 264 VAC input, 100% load)			
Load variation influence		0.8% max. (with rated input, 10% to 100% load)							
Temperature variation influence		0.05%/°C max. (with rated input and output)							
Rise time		200 ms max. (up to 90% of output voltage at rated voltage and rated output voltage/current)							
Hold time		20 ms max. (up to 90% of output voltage at rated voltage and rated output voltage/current)							
Additional functions									
Overload protection		105% min. of rated load current, automatic reset							
Overvoltage protection		No			Yes	No			Yes
Parallel operation		No				No			
Series operation		No			Yes	No			Yes
Characteristics									
Ambient temperature	Operating	See the derating curve in the *Engineering Data* section.							
	Storage	−20°C to 65°C (68°F to 149°F) with no condensation and icing							
Ambient humidity	Operating	25% to 85%							
	Storage	25% to 90%							
Dielectric strength		3000 VAC between input and output terminals (2200 VAC between input and GR terminals)							
Insulation resistance		100 MΩ min. (between all outputs and all inputs/GR terminals at 500 VDC)							
Vibration resistance		10 to 55 Hz, 0.75-mm double amplitude (approx. 4.5G) for 2 h each in X, Y, and Z directions							
Shock resistance		294 m/s^2 (approx. 30G), 3 times each in ±X, ±Y, and ±Z directions							
Output indicator		Green LED							
Electromagnetic interference		Conforms to FCC class A, EN55011 Gr1 class A:EN50081-2							
Mean time between failures		100,000 hrs min.							

(This table continues on the next page.)

Note: 1. DC inputs are not included in safety standard approvals.
2. At 100% load for rated input voltage (100 or 200 VAC)
3. The Output specification is defined as the power supply output terminals.

Specifications Table – continued from previous page

Item	120 VAC input				240 VAC input			
	10 W	25 W	50 W	100 W	10 W	25 W	50 W	100 W
EMC	Emission Enclosure: EN55011 Group 1 class A: EN50081-2 Emission AC Mains: EN55011 Group 1 class A: EN50081-2 Immunity ESD: IEC801-2: 4 kV contact discharge (level 2): EN50082-2; 8 kV air discharge (level 3) Immunity RF-interference: ENV50140: 10 V/m (80 MHz to 1 GHz) (level 3),EN50082-2 Immunity Conducted Distubance: ENV50141: 10 V (0.15 to 80 MHz) (level 3): EN50082-2 Immunity Burst: IEC801-4: 2 kV power-line (level 3): EN50082-2; 2 kV output line (level 4): EN50082-2							
Approved standards	UL 1012, CSA (LR63986), CE, VDE 0160, VDE 0805, and EN 60950 (IEC 950), conforms to EN50081-2, EN50082-2							
Weight (covered-type)	250 g max.	350 g max.	400 g max.	500 g max.	250 g max.	350 g max.	400 g max.	500 g max.

■ S82J MODELS 100 (5, 12, 15V)/150/300/600 W)

Item	120 VAC input		240 VAC input		120/240 VAC (selectable)	
	100 W	150 W	100 W	150 W	300 W	600 W
Efficiency (typical)	78% to 85% (depends on the model)				82% min.	
Inputs						
Voltage (See Note 1.)	85 to 132 VAC or 110 to 170 VDC		170 to 264 VAC		85 to 132 or 170 to 253 VAC (selectable)	
Frequency	47 to 450 Hz					
Current (See Note 2.)	2.5 A max.	3.5 A max.	1.4 A max.	2.1 A max.	8 A max. at 100 VAC or 4 A max. at 200 VAC	14 A at 100 VAC or 7 A at 200 VAC
Leakage current (See Note 2.)	0.5 mA max.		1 mA max.		0.5 mA max. at 100 VAC or 1.0 mA max. at 200 VAC	
Inrush current (See Note 2.)	25 A max. (at 25°C)		50 A max. (at 25°C)		25 A max. at 100 VAC or 50 A max. at 200 VAC	30 A max. at 100 VAC or 60 A max. at 200 VAC
Noise filter	Yes					
Output (See Note 3.)						
Voltage adjustment range	±10% (adjustable with variable resistor (V.ADJ))					
Ripple (See Note 2.)	2% (p-p) max.					
Input variation influence	0.4% max. (at 85 to 132 VAC input, 100% load)		0.4% max. (at 170 to 264 VAC input, 100% load)		0.4% max. (at 85 to 132 VAC/170 to 253 VAC input, 100% load)	
Load variation influence	0.8% max. (with rated input, 10% to 100% load)				0.8% max.	
Temperature variation influence	0.05%/°C max. (with rated input and output)				0.05% max.	
Rise time	200 ms max. (up to 90% of output voltage at rated input and output)				300 ms max.	
Hold time (See Note 2.)	20 ms min.					
Additional functions						
Overload protection	105% min. of rated load current (typical), inverted L drop type, automatic reset					
Overvoltage protection (See Note 6.)	Yes (5-V output models only)	---	Yes (5-V output models only)	---	Yes, protection-ON alarm indicator lit (red) for 300 W and 600 W models	

(This table continues on the next page.)

Note: 1. DC inputs not included in safety standard approvals.
2. Defined with a 100% load and the rated input voltage (100 or 200 VAC).
3. The output specification is defined at the power supply output terminals.
4. The weight indicated is the weight of the open-frame type. (Includes the covers for 300-W and 600-W models.)
5. To ensure the Emission Enclosure rating, ferrite ring cores (recommended model: S82Y-JC-T) should be used on all cabling.
6. For resetting, turn OFF the power supply, leave for more than two minutes (90 seconds min. for the 300-W models and 3 minutes min. for the 600-W models), and then turn ON the power supply.

Specifications Table – continued from previous page

Item		120 V input		240 V input		120/240 V (selectable)	
		100 W	150 W	100 W	150 W	300 W	600 W
Overheat protection (See Note 6.)		No				No	Yes, protection-ON alarm indicator lit (red) 600 W only
Parallel operation		No				Yes, 5 Units max.	
Series operation		Yes				Yes	
Characteristics							
Ambient temperature	Operating	See the derating curve in the *Engineering Data* section					
	Storage	–25°C to 65°C (–13°F to149°F)					
Ambient humidity	Operating	25% to 85%					
	Storage	25% to 90%					
Dielectric strength		3,000 VAC, 50/60 Hz for 1 min (between all inputs and all outputs) 2,200 VAC, 50/60 Hz for 1 min (between all inputs and GR terminal)					
Insulation resistance		100 MΩ min. at 500 VDC (between all outputs and all inputs/GR terminal)					
Vibration resistance		Malfunction: 10 to 55 Hz, 0.75-mm double amplitude (44.1 m/s^2, approx. 4.5G) for 2 h each in X, Y, and Z directions					
Shock resistance		Malfunction: 294 m/s^2 (30G), 3 times each in ±X, ±Y, and ±Z directions					
Output indicator		Yes (green)					
Electromagnetic interference		Conforms to FCC class A, EN50081-2					
EMC		Emission Enclosure: EN55011 Group 1 class A: EN50081-2 (EN55022 class B: EN50081-1) Emission AC Mains: EN55011 Group 1 class A: EN50081-2(EN55022 class B: EN50081-1) Immunity ESD: EC801-2:4 kV contact discharge (level 2): EN50082-28 kV air discharge (level 3) Immunity RF-interference: ENV50140: 0 V/m (80 MHz to 1 GHz) (level 3), EN50082-2 Immunity Conducted Disturbance: ENV50141:10 V (0.15 to 80 MHz) (level 3): EN50082-2 Immunity Burst: IEC801-4: 2 kV power-line (level 3): EN50082-22 kV output line (level 4): EN50082-2					
EMC standards		Conforms to EN50081-2 and EN50082-2				Conforms to EN50081-2 and EN50082-2 (See Note 5.); With noise filter, conforms to EN50081-1 (See Notes 5 & 7.)	
Approved standards		UL 508, CSA E.B.1402C, VDE 0160, VDE 0805 and EN60950 (IEC950)				UL 508, UL 1012, CSA EB1402C VDE 0160 and EN60950 (IEC950) VDE0805	
Life expectancy		8 yrs. min. (at 40°C at the rated input with a 50% load)				10 yrs (under rated input voltage, load rate of 50%, ambient temperature of 40°C, and standard mounting)	
Weight (See Note 4.)		1,000 g max.				2,000 g max.	2,500 g max.

Note: 1. DC inputs not included in safety standard approvals.
2. Defined with a 100% load and the rated input voltage (100 or 200 VAC).
3. The output specification is defined at the power supply output terminals.
4. The weight indicated is the weight of the open-frame type. (Includes the covers for 300-W and 600-W models.)
5. To ensure the Emission Enclosure rating, ferrite ring cores (recommended model: S82Y-JC-T) should be used on all cabling.
6. For resetting, turn OFF the power supply, leave for more than two minutes (90 seconds min. for the 300-W models and 3 minutes min. for the 600-W models), and then turn ON the power supply.
7. To ensure the Emission AC Mains rating for EN50081-1 (only for 200-VAC input), a noise filter (recommended models: S82Y-JF3-N for 300 W, S82Y-JF6-N for 600 W) should be used on the input lines.

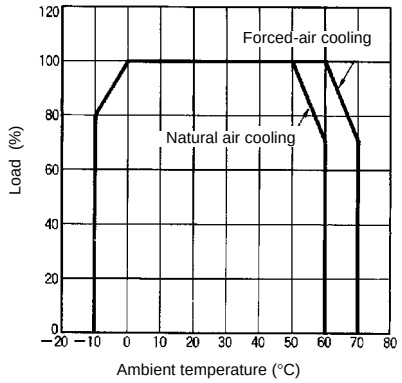
Engineering Data

■ DERATING CURVE

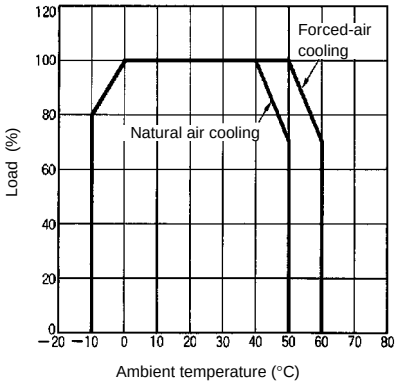
S82J 10/25/50/100/150 W

Note: The derating curve shown is for standard installation. The derating curve depends on the mounting direction of the Power Supply.

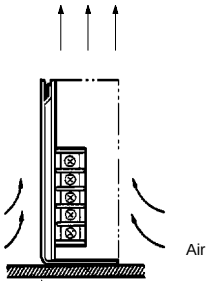
Open-frame type



Covered-type

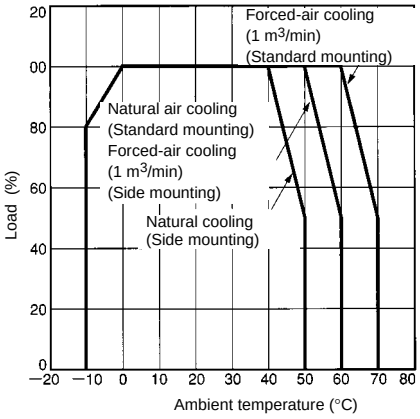


Mounting Position for Standard Installation

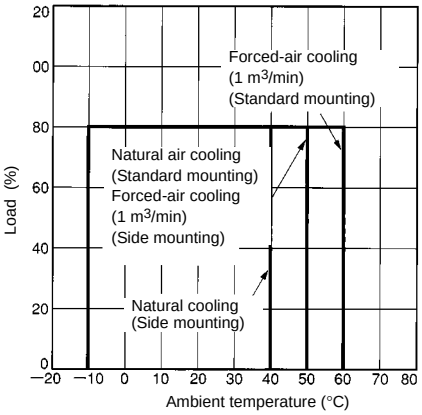


300-W Model

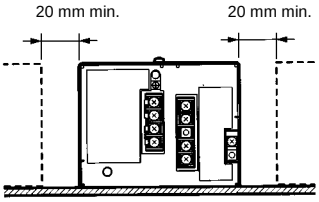
Single Operation



Parallel Operation

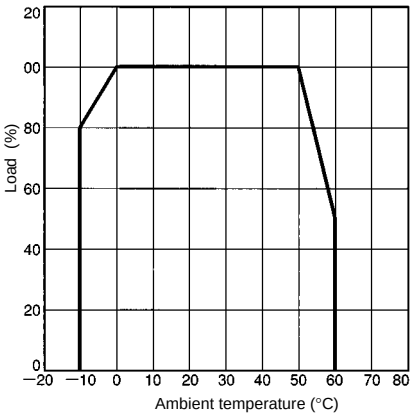


Mounting Position for Standard Installation

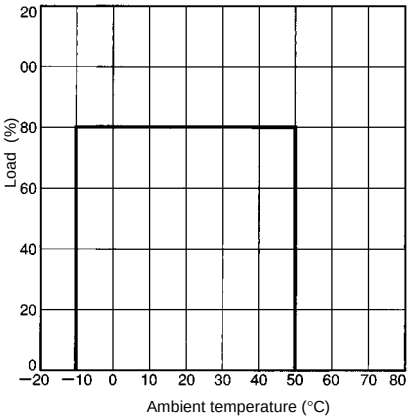


600-W Model

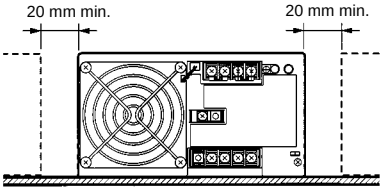
Single Operation



Parallel Operation



Mounting Position for Standard Installation

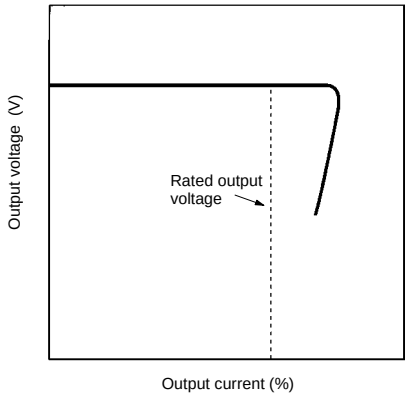


Note: Provide a minimum clearance of 20 mm between the Power Supplies. Refer to the *Mounting* information in the *Dimensions* section.

■ OVERLOAD PROTECTION

10- to 300-W Models

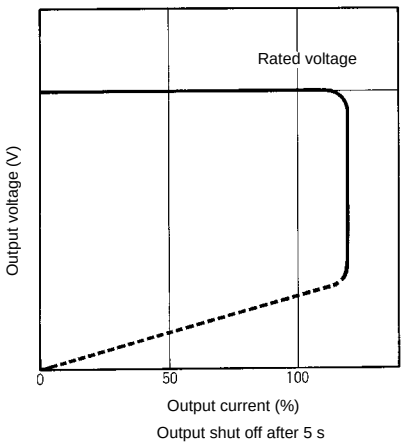
The power supply has an overload protection function that protects the load and the power supply from possible damage by overcurrent. When the output current rises above a set value (105% of the rated output current), the protection function is triggered, decreasing the output voltage. When the output current falls within the rated range, the overload protection function is automatically cleared.



600-W Models

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

Note: Do not continue using the S82J with the output terminals short-circuited or the overcurrent condition continued, otherwise the internal elements of the S82J may be damaged or broken.



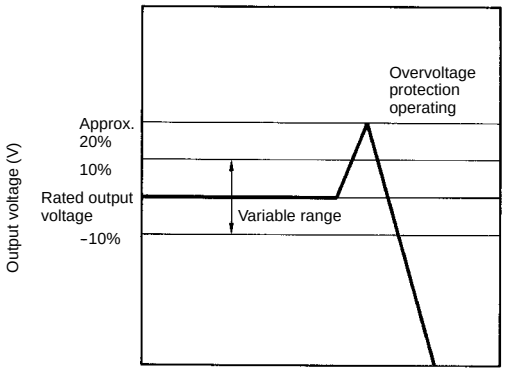
■ OVERVOLTAGE PROTECTION

100-W, 5-V Output Models Only

These power supplies have an overvoltage protection function that protects the load and the power supply from possible damage by overvoltage. When the output voltage rises above a set value (120% of the rated output voltage), the protection function is triggered, shutting off the output voltage. If this occurs, reset the power supply by turning it off for 2 minutes minimum and then turning it on again.

300- and 600-W Models

If a voltage that is 120% of the rated output voltage or above is output, the output voltage will be turned off and simultaneously protection-ON alarm indicator will be lit. To reset the S82J, turn off the input voltage, 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 apply the input voltage again.



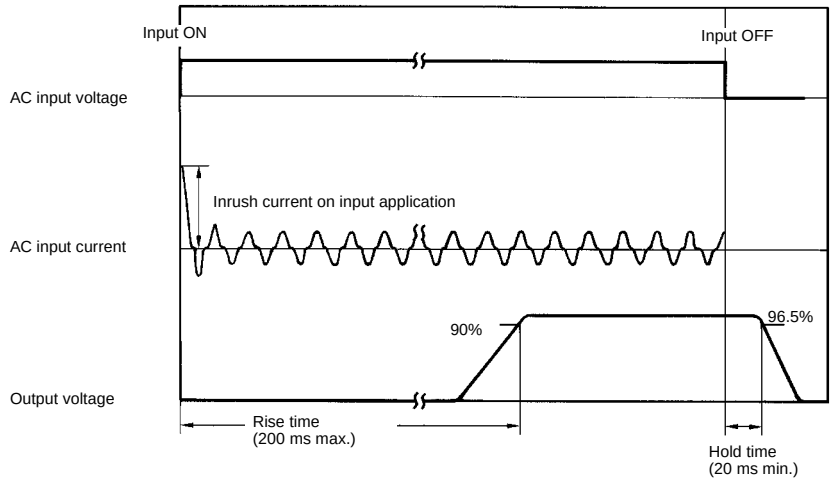
Note: The output voltage can be varied by the V. ADJ adjuster on the front panel. When it is set to a value 10% higher than the rated value, the overvoltage protection function may be effected.

■ OVERHEAT PROTECTION FUNCTION

600-W Model Only

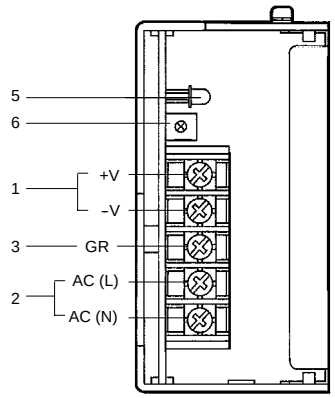
If the internal temperature of the S82J rises excessively as a result of fan failure or any other reason, the overheat protection circuit will be triggered to protect the internal elements of the S82J and simultaneously a protection-ON alarm indicator will be lit. To reset the S82J, turn off the input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

■ INRUSH CURRENT, RISE TIME, HOLD TIME



Nomenclature

S82J 10 W TO 150 W

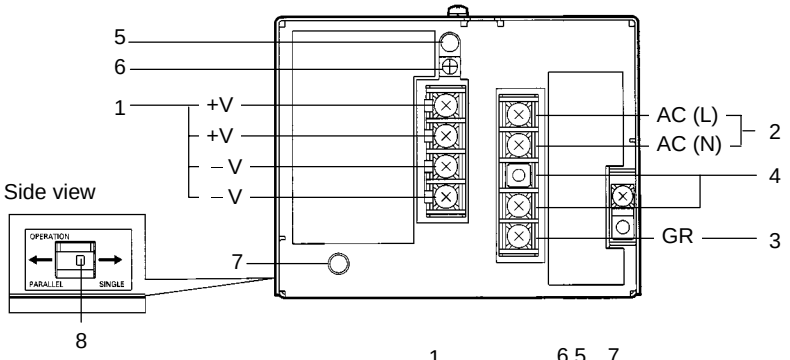


1. **DC Output Terminals:** Connect the load lines to these terminals.
2. **Input Terminals:** Connect the input lines to these terminals.

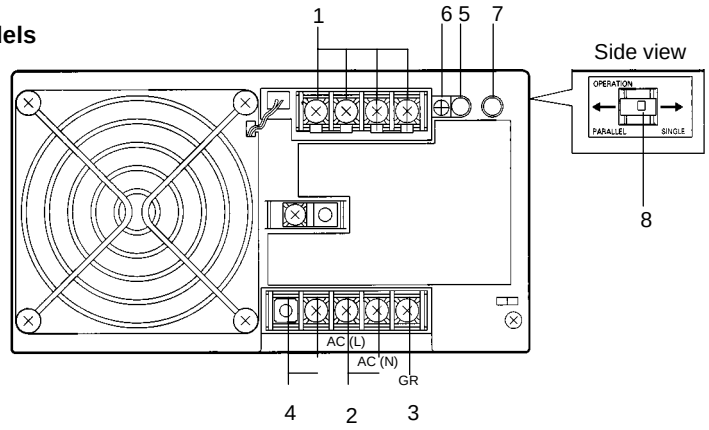
Note: A fuse is inserted into the AC (L) side.

3. **Ground Terminal (GR):** Connect a ground line to this terminal.
4. **Input Voltage 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
5. **Output Indicator (DC ON):** Lights while a Direct Current (DC) output is ON.
6. **Output Voltage Adjuster (V.ADJ):** It is possible to increase or decrease the output voltage by 10%.
7. **Protection-ON Alarm Indicator:** 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.
9. **NC Terminals:** Leave unconnected.

300-W Models



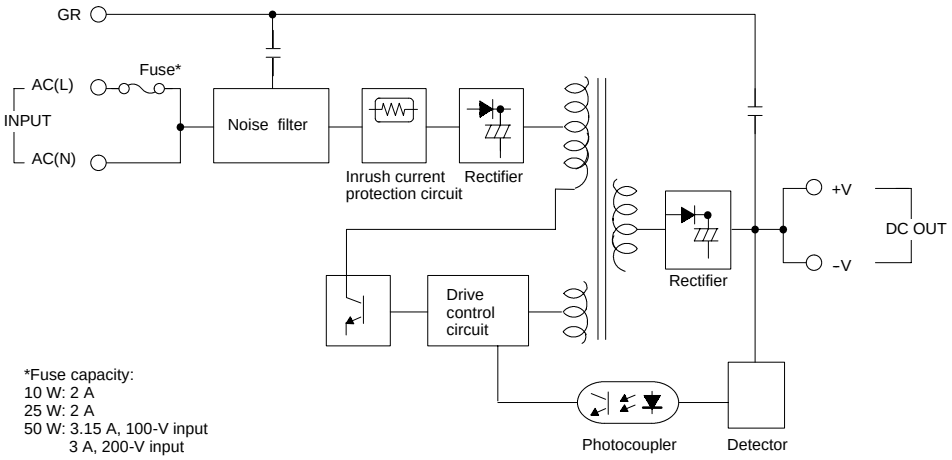
600-W Models



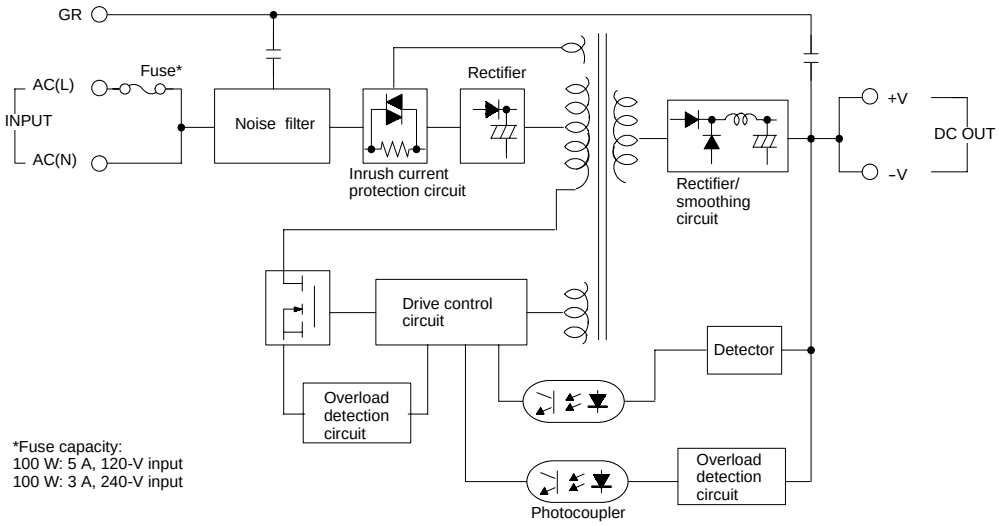
Operation

■ BLOCK DIAGRAMS

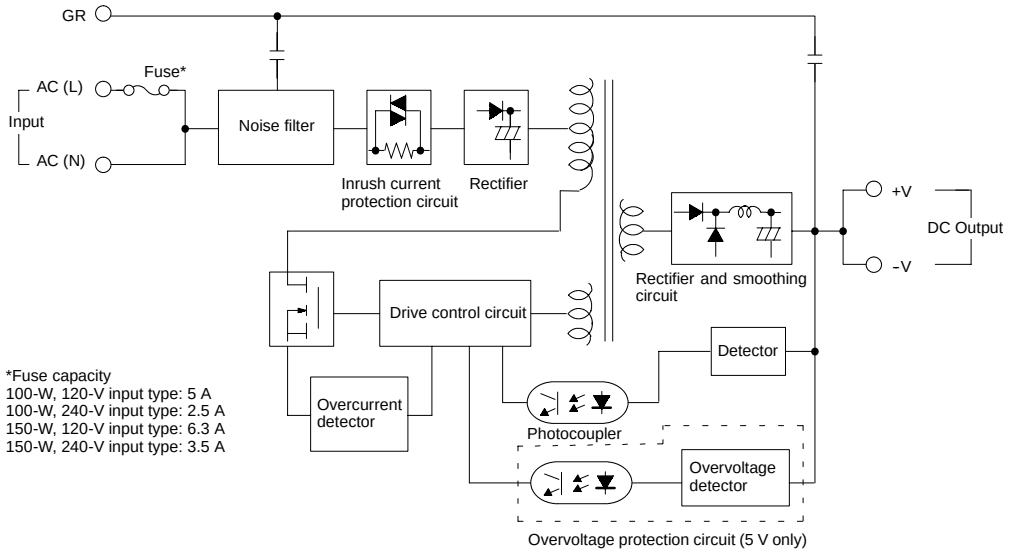
S82J-01/-02/-05
S82J-21/-22/-25
S82J-51/-52/-55
S82J-61/-62/-65



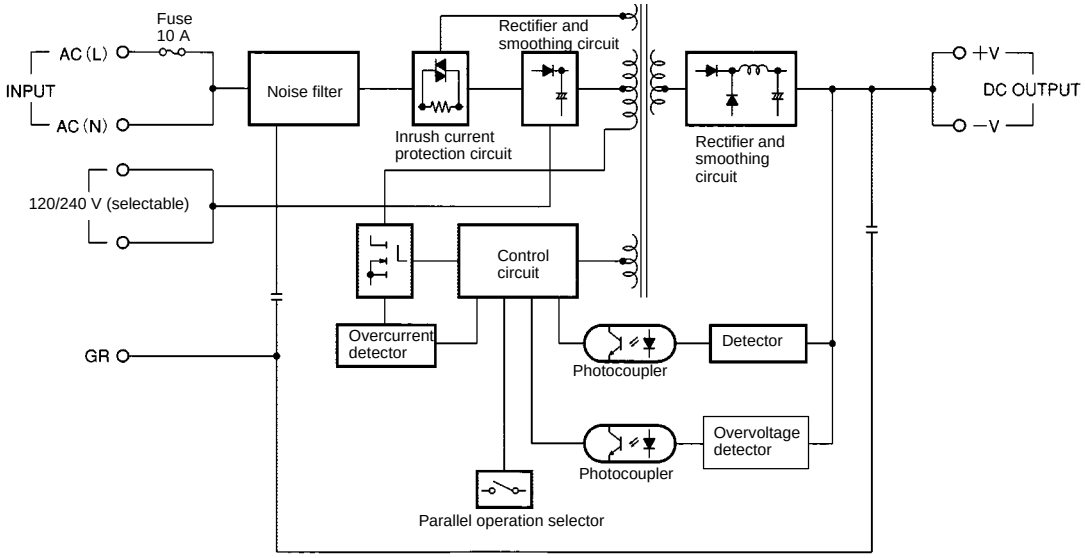
S82J-1024
S82J-2024
S82J-5024
S82J-6024



S82J-100□□□□ (100 W)
S82J-15024□□ (150 W)

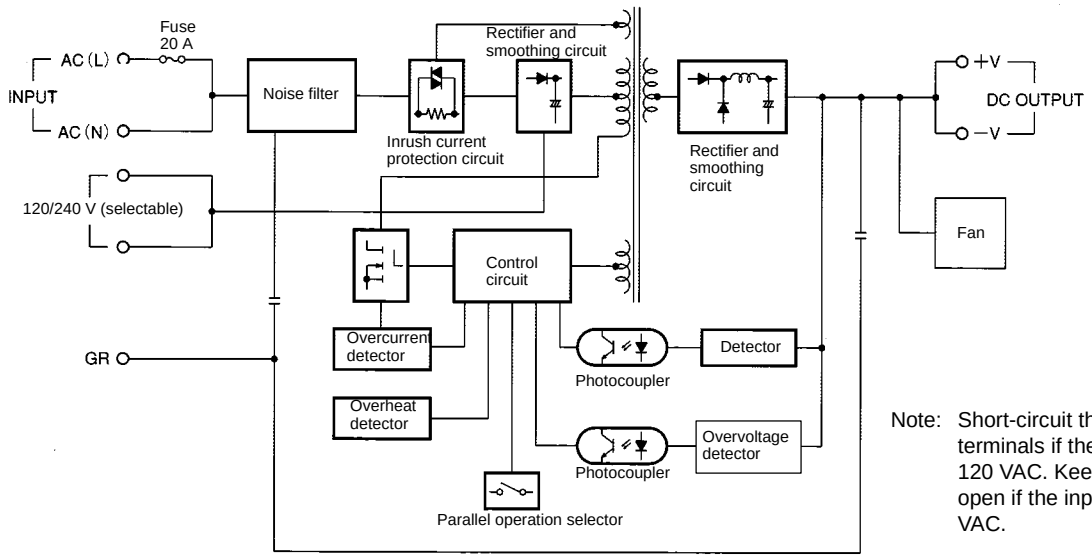


S82J-30024 (300 W)



Note: Short-circuit the input voltage terminals if the input is 100 to 120 VAC.
Keep the terminals open if the input is 200 to 230 VAC.

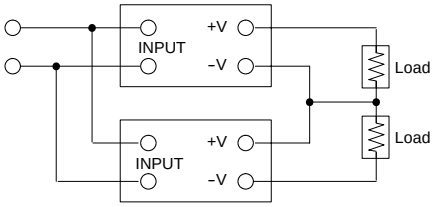
S82J-60024 (600 W)



Note: Short-circuit the input voltage terminals if the input is 100 to 120 VAC. Keep the terminals open if the input is 200 to 230 VAC.

■ GENERATING OUTPUT VOLTAGE (±)

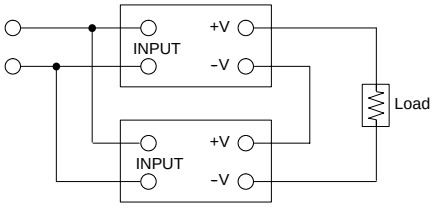
An output of ± can be generated by using two power supplies as shown below, because the power supply produces a floating output.



■ SERIES OPERATION

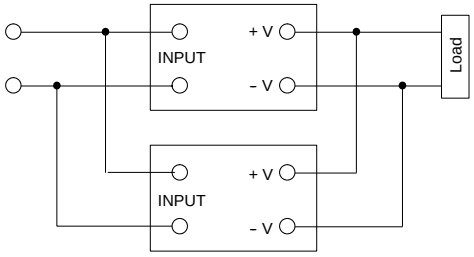
As shown in the following diagram, the output voltage from each power supply can be added.

Note: 300-W models and 600-W models cannot be conected in series.



■ PARALLEL OPERATION

Only 300-W 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.

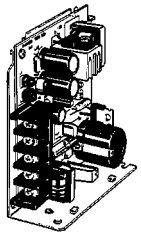


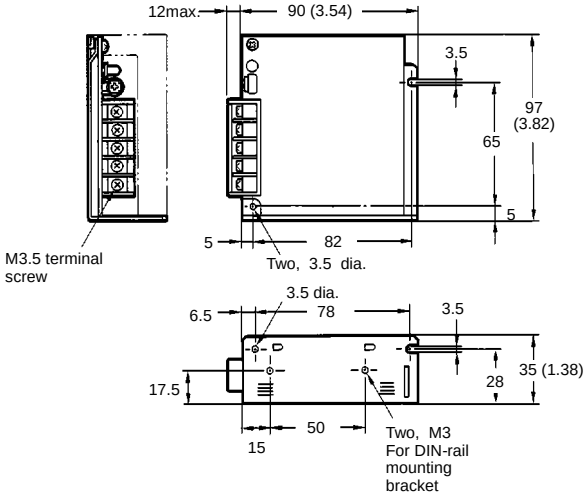
Dimensions

Unit: mm (inch)

■ OPEN-FRAME AND COVERED-FRAME TYPES

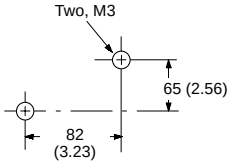
S82J-01□□
S82J-21□□
S82J-51□□
S82J-61□□



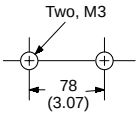


Mounting Holes
(Surface Screw Mounting)

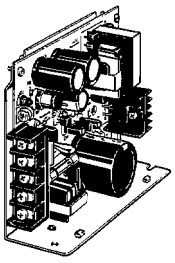
Side Mounting

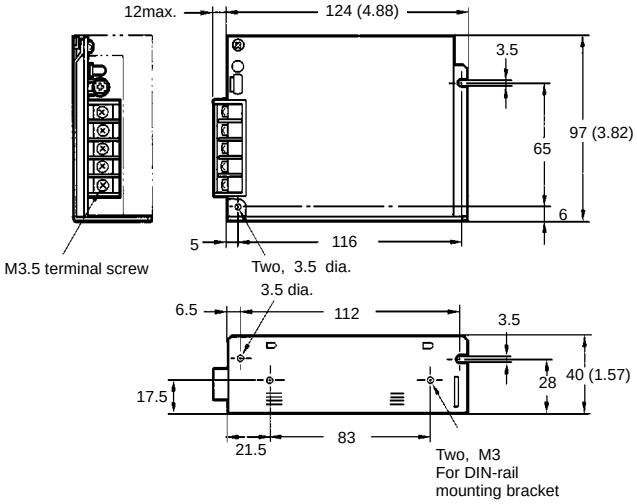


Bottom Mounting



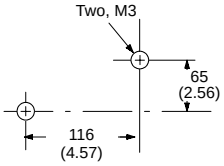
S82J-02□□
S82J-22□□
S82J-52□□
S82J-62□□



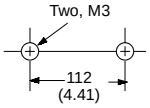


Mounting Holes
(Surface Screw Mounting)

Side Mounting

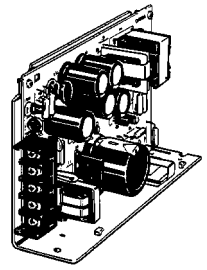


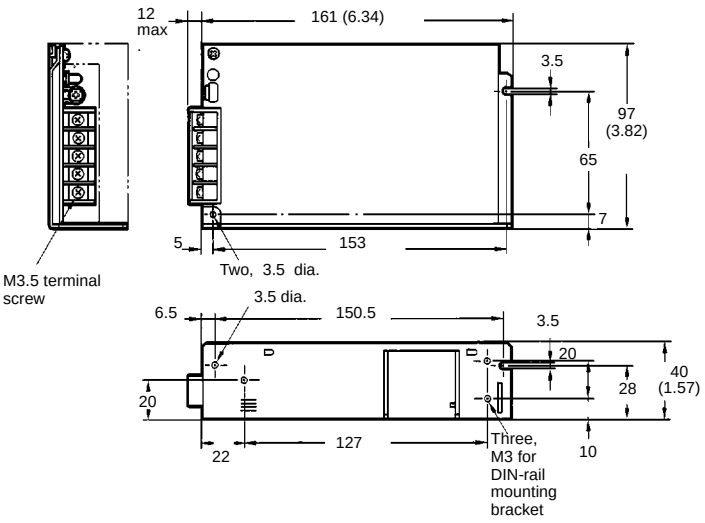
Bottom Mounting



Unit: mm (inch)

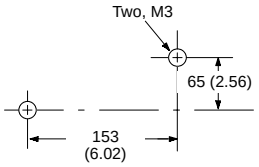
S82J-05□□
S82J-25□□
S82J-55□□
S82J-65□□



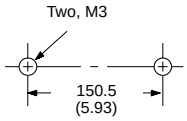


Mounting Holes

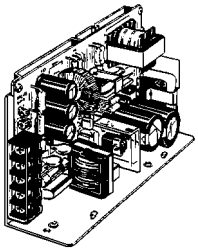
Side Mounting

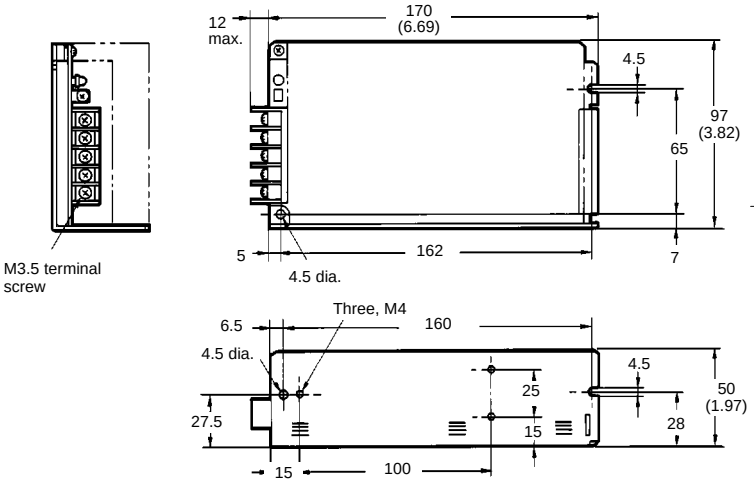


Bottom Mounting



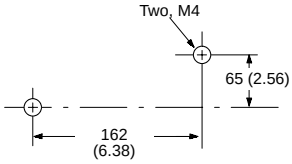
S82J-1024
S82J-2024
S82J-5024
S82J-6024



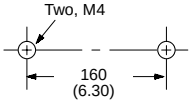


Mounting Holes

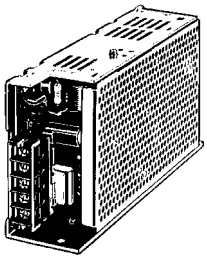
Side Mounting

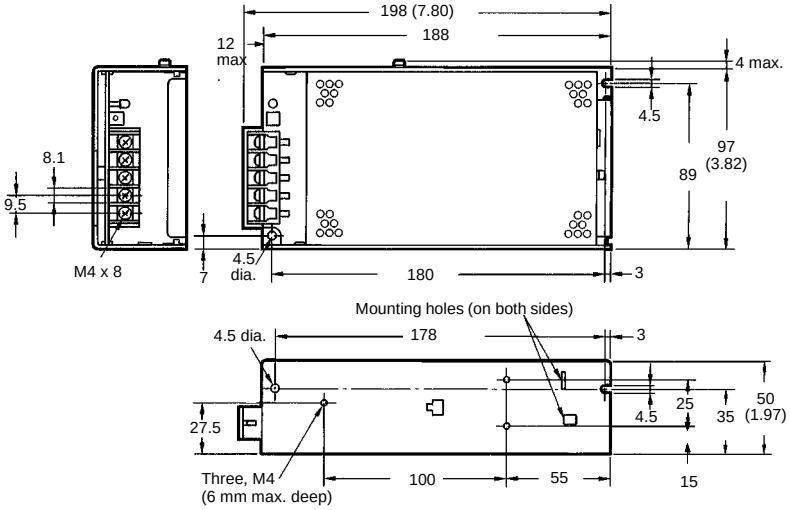


Bottom Mounting

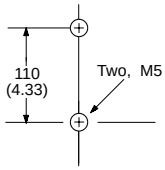


S82J-100□□□□
S82J-15024□□



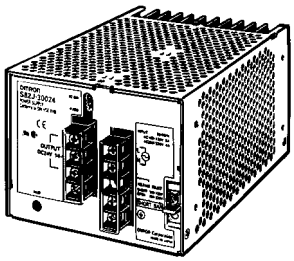


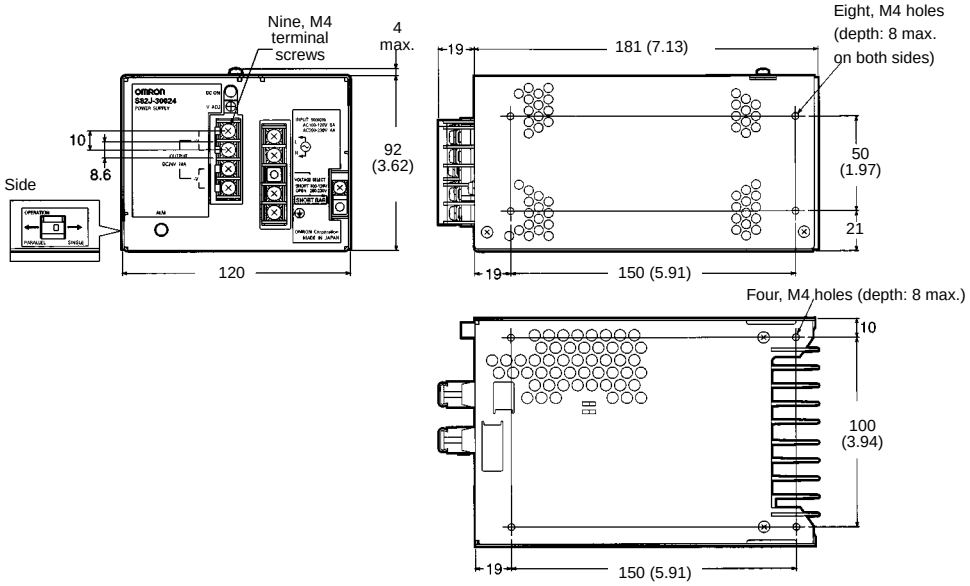
Mounting Holes



■ ENCLOSED-FRAME TYPE

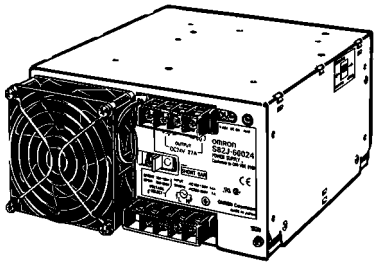
S82J-30024

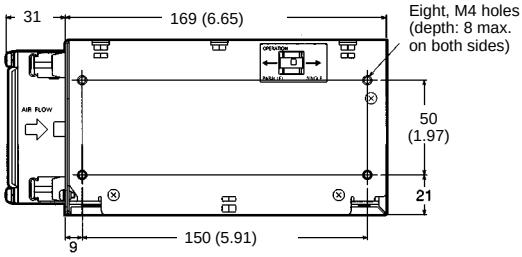


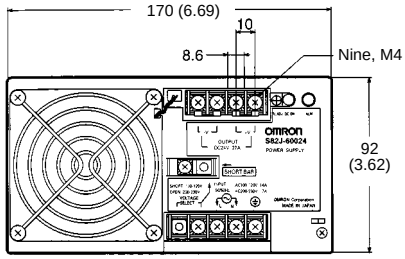


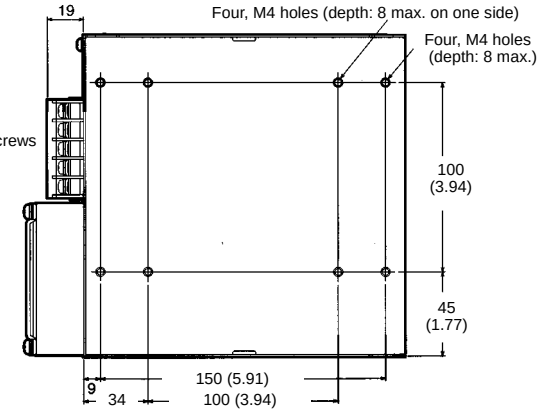
Unit: mm (inch)

S82J-60024





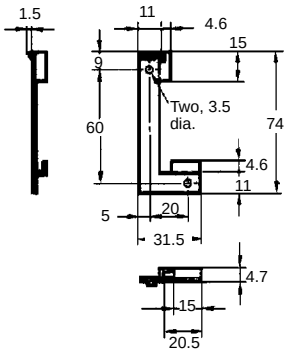


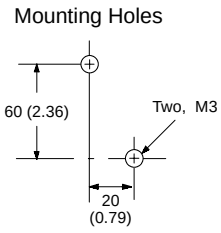


■ MOUNTING BRACKET (INCLUDED WITH POWER SUPPLY UNIT)

S82J 10-/25-/50-/100-W (24-V) Models

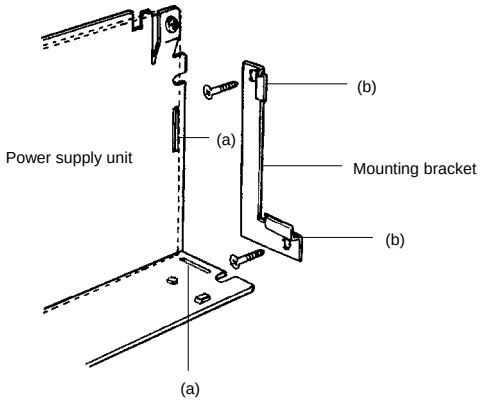
Front-mounting Bracket (Included)





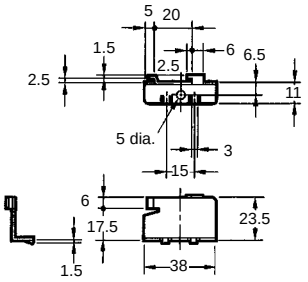
Using the Mounting Bracket

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.

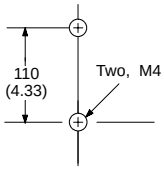


S82J 100-W (5-/12-/15-V) Models or 150-W Models

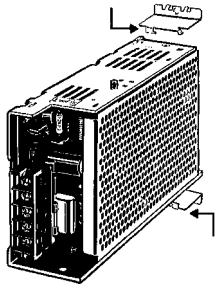
Front Mounting Brackets (Included)



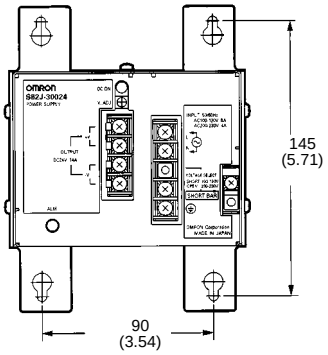
Mounting Holes



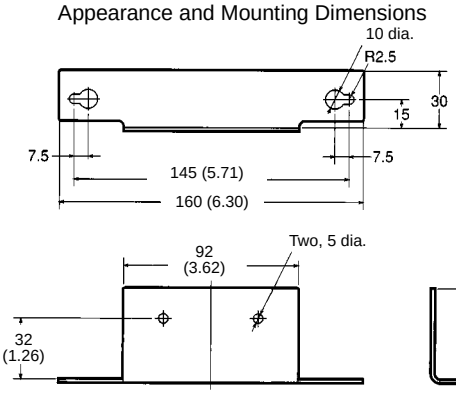
Mounting with Brackets

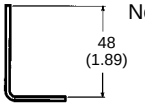


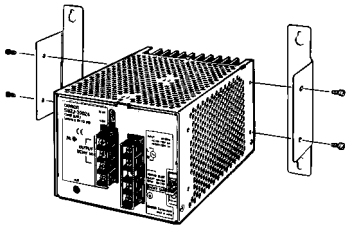
300-W Models



Appearance and Mounting Dimensions

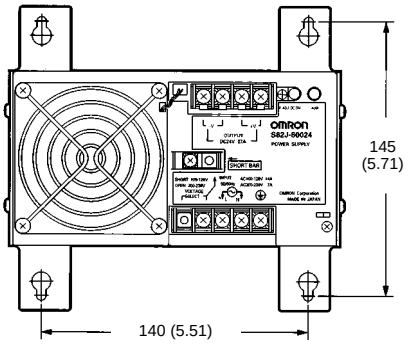


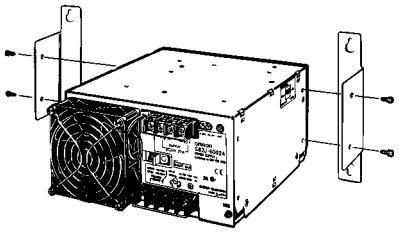




Note: Using the bracket provides 21.6 mm ventilation space.

600-W Models



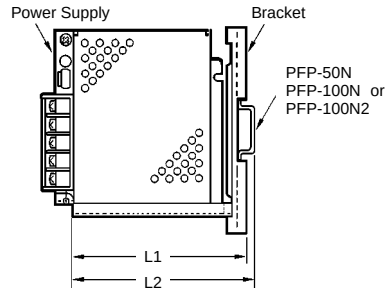
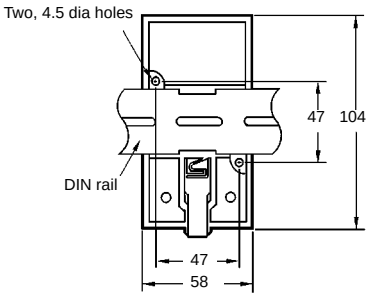
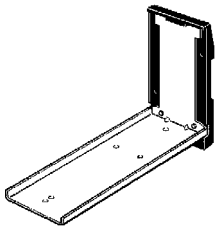


Note: Using the bracket provides 23.6 mm ventilation space.

Unit: mm (inch)

■ OPTIONAL DIN-RAIL MOUNTING BRACKET

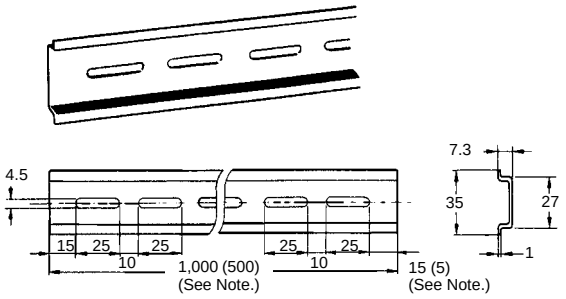
DIN-Rail Mounting Bracket (Order Separately)

Item	S82Y-01N	S82Y-03N	S82Y-05N	S82Y-10N
Applicable power supply	S82J-□1□□	S82J-□2□□	S82J-□5□□	S82J-□0□□
Dimensions	 			
Dimensions: L1	113 mm (4.45)	143 mm (5.63)	163 mm (6.42)	185 mm (7.28)
L2	114.8 mm (4.52)	144.8 mm (5.70)	164.8 mm (6.49)	186.8 mm (7.35)

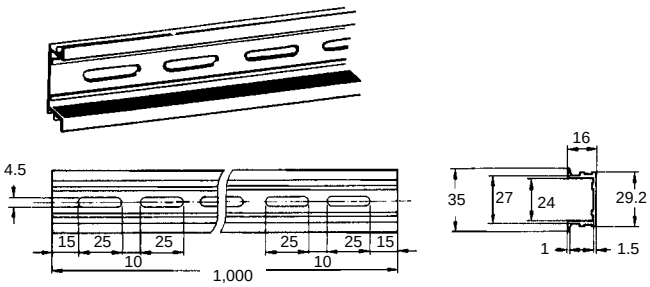
Note: The figures in row L1 apply if a mounting bracket is attached to the power supply. The figures in row L2 apply if PFP-50N or PFP-100N DIN rail is used. Add 10.5 mm to each figure in the L1 row if PFP-100N2 DIN rail is used.

■ DIN RAIL (ORDER SEPARATELY)

PFP-100N/PFP-50N



PFP-100N2

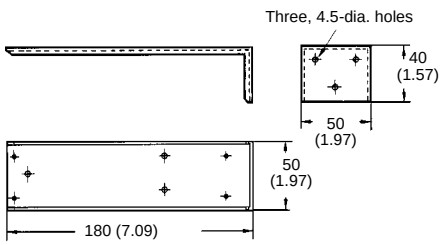


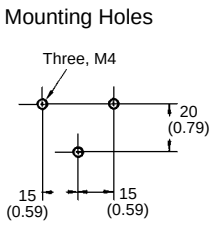
Note: The values shown in parentheses are for the PFP-50N.

■ OTHER ACCESSORIES (ORDER SEPARATELY)

Front-Mounting Bracket for 100-W, 24-V (F-type) (Order Separately)

S82Y-J10F

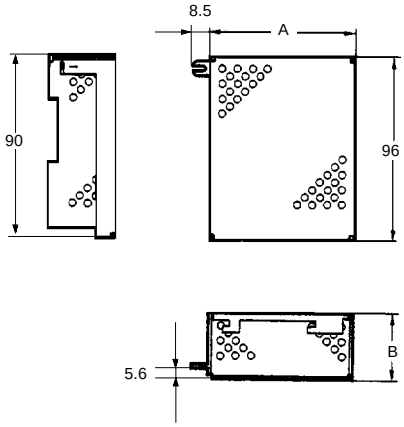
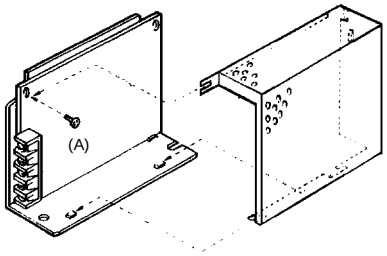




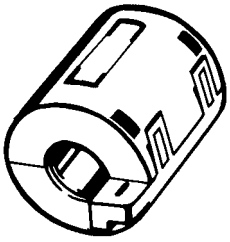
Note: The front mounting bracket (above) cannot be used for S82J 100-W (5-, 12-, 15-V) or 150-W models.

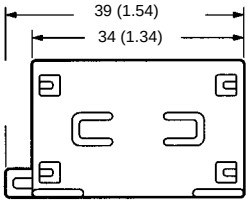
Cover (Order Separately)

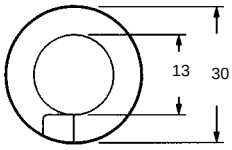
Note: This optional cover is available for the open-frame models also.

Item	S82Y-J01K	S82Y-J02K	S82Y-J05K	S82Y-J10K
Applicable supply unit	S82J-01/-21	S82J-02/-11	S82J-05/-25	S82J-10/-20
Dimensions	 Attaching Cover to Power Supply Remove screw (A) before attaching the cover to the Power Supply. Tighten the screw to secure the cover on the Power Supply. Note: The derating curve shown in *Engineering Data* may change with changes in ambient temperature when the cover is attached to the Power Supply. 			
Dimensions: A	75 mm (2.95)	109 mm (4.29)	146 mm (5.75)	154 mm (6.06)
B	35 mm (1.38)	39 mm (1.54)	38 mm (1.50)	48 mm (1.89)

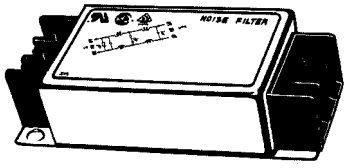
Ferrite Ring Core (Order Separately)
S82Y-JC-T

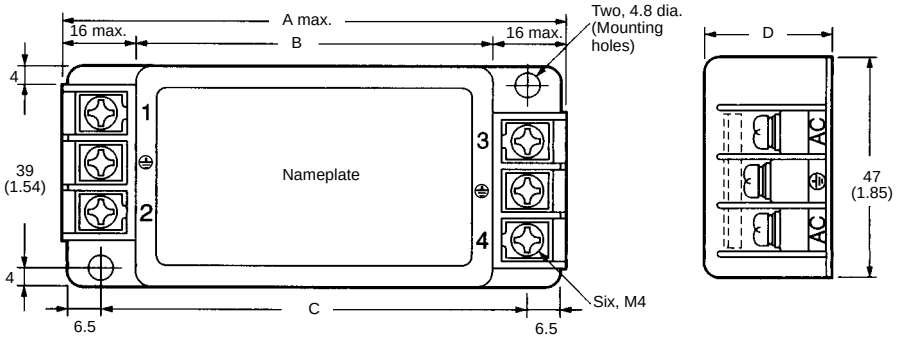






Noise Filter (Order Separately)
S82Y-JF3-N for 300-W Models
S82Y-JF6-N for 600-W Models





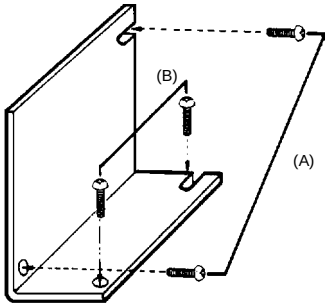
Model	A	B	C	D
S82Y-JF3-N	107 (4.21)	75 (2.95)	90 (3.54)	26 (1.02)
S82Y-JF6-N	117 (4.60)	85 (3.35)	100 (3.94)	30 (1.18)

■ MOUNTING METHODS

S82J 10/25/50 W (S82J-1024/2024/5024/6024)

The following three mounting methods are available.

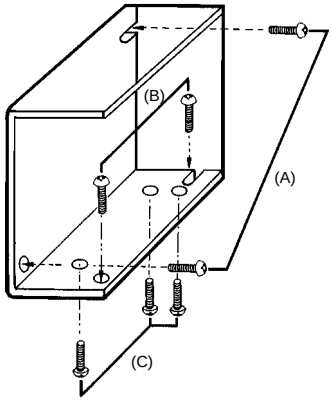
(A) Side mounting
(B) Bottom mounting
(C) Bottom mounting (with S82Y optional bracket)

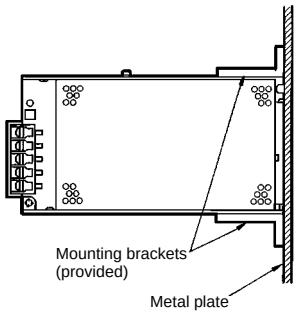


S82J 100/150 W

The following mounting methods are available.

(A) Side mounting
(B) Bottom mounting (secured with screws from the inside of the power supply)
(C) Bottom mounting (secured with screws from the back of the power supply)



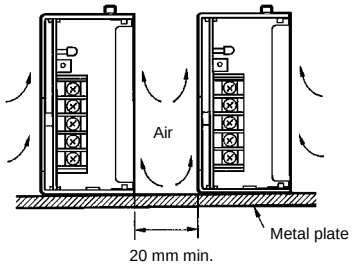


(B) Front mounting
Front mounting is possible with the mounting brackets provided. Refer to the *Dimensions* Section.

Precautions

■ MOUNTING

- When mounting the power supply, allow space for adequate air flow around it – to improve and maintain the reliability of the power supply over a long period of time. The power supply is designed to dissipate heat through natural air-flow.
- Omron recommends mounting the power supply to a metal plate.
- When mounting two or more power supplies side-by-side, allow at least 20 mm (0.79) spacing between them, as shown in the illustration provided here.
- Forced-air cooling is recommended.

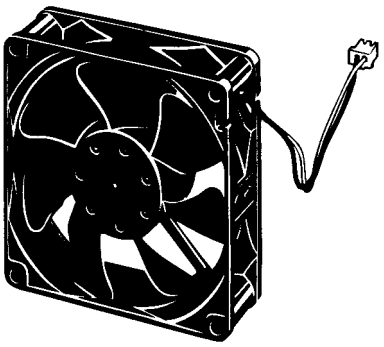


FAN REPLACEMENT

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°C.

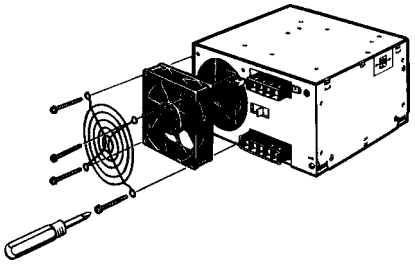
Fans are available as replacements.

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.



NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.

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