

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

- Models range from 10 to 600 W
- UL 508 approval
- Class 2 approval on 50-W (24 V) model
- 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-05024A 100 to 240 VAC input	
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-10024A 100 to 240 VAC input	
150 W	—	—	—	6.5 A	S82J-15024A 120 or 240 VAC automatically selected	

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-05024D 100 to 240 VAC input	
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-10024D 100 to 240 VAC input	
150 W	—	—	—	6.5 A	S82J-15024D 120 or 240 VAC automatically selected	

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 230 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 that follows.

■ 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
Front-mounting bracket	for 100-W, 24-V models	S82Y-J10F
DIN-rail	1 m (3.28 ft) length for 10- to 150-W models	PPF-100N/PPF-100N2
	0.5 m (1.64 ft) length for 10- to 150-W models	PPF-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)	for 300-W and 600-W models	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-W (5-V, 12-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

3. Output voltage

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

S82J 50-W (24 V)/100-/150-/300-/600-W Models

S82J -

1 2 3 4

1. Power ratings

050: 50 W
 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: 100-240 VAC
 120/240 VAC
 (selectable or
 automatically selected)

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 (5, 12 V)	100 W (5, 12, 15 V)	10 W	25 W	50 W (5, 12 V)	100 W (5, 12, 15 V)
Efficiency (typical)	67% min.			76% min.	67% min.			76% min.
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	50/60 Hz (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.	1.4 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)							
Startup time	200 ms max. (up to 90% of output voltage at rated voltage and rated output voltage/current)							
Hold time	20 ms min. (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. See the overload protection in the <i>Engineering Data</i> section.							
Overvoltage protection	No			Yes (5 V model only)	No			Yes (5 V model only)
Parallel operation	No				No			
Series operation	No			Yes	No			Yes
Characteristics								
Ambient temperature	Operating	See the derating curve in the <i>Engineering Data</i> 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							
Mean time between failures	135,000 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 (5, 12 V)	100 W (5, 12, 15 V)	10 W	25 W	50 W (5, 12 V)	100 W (5, 12, 15 V)
EMC	Emission Enclosure: EN55011 class A Emission AC Mains: EN55011 class A Immunity ESD: EN61000-4-2: 4 kV contact discharge (level 2); 8 kV air discharge (level 3) Immunity RF-interference: ENV50140: 10 V/m (80 MHz to 1 GHz) (level 3) Immunity Conducted Disturbance: ENV50141: 10 V (0.5 to 80 MHz) (level 3) Immunity Burst: EN61000-4-4: 2 kV power-line (level 3); 2 kV output line (level 4)							
EMC Standards	Conforms to EN50081-2, EN50082-2							
Approved standards	UL 508, UL 1012 (except 100 W), CSA C22.2 No. 14, EN 50173 (VDE 0160), EN 60950							
Weight (covered-type)	250 g max.	350 g max.	400 g max.	1,000 g max.	250 g max.	350 g max.	400 g max.	1,000 g max.

■ S82J MODELS 50-W (24 V)/100 (24 V)/150/300/600 W)

Item	100-240 input		120/240 VAC (automatically selected)	120/230 VAC (selectable)	
	50 W (24 V)	100 W (24 V)	150 W	300 W	600 W
Efficiency (typical)	77% min.	83% min.	82% min.	82% min.	
Input					
Voltage	85 to 264 VAC		85 to 132 VAC or 170 to 264 VAC (automatically selected)	85 to 132 or 170 to 253 VAC (selectable)	
Frequency	50/60 Hz (47 to 450 Hz)				
Current (See Note 2.)	1.4 A max. at 100 VAC, 0.8 A max. at 200 VAC	2.5 A max. at 100 VAC, 1.5 A max. at 200 VAC	3.5 A max. at 100 VAC, 2.1 A max. at 200 VAC	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. at 100 VAC or 1.0 mA max. at 200 VAC				
Inrush current (See Note 2.)	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.				
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)				
Startup time	500 ms max. (up to 90% of output voltage at rated input and output)			300 ms max. (up to 90% of output voltage at rated input and output)	
Hold time (See Note 2.)	20 ms min.				
Additional functions					
Overload protection	105% min. of rated load current, automatic reset. See the overload protection in the <i>Engineering Data</i> section.				
Overvoltage protection (See Note 6.)	No	Yes	No	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	100-240 VAC input		120/240 VAC (automatically selected)	120/230 VAC (selectable)	
	50 W (24 V)	100 W (24 V)	150 W	300 W	600 W
Overheat protection (See Note 6.)	No			No	Yes, protec- tion-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 <i>Engineering Data</i> section				
	Storage: -25°C to 65°C (-13°F to 149°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) 1,000 VAC, 50/60 Hz for 1 min (between all outputs 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 (approx. 4.5G) for 2 h each in X, Y, and Z direc- tions				
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				
EMC	Emission Enclosure: EN55011 class A Emission AC Mains: EN55011 class A Immunity ESD: EN61000-4-2:4 kV contact discharge (level 2): 8 kV air discharge (level 3) Immunity RF-interference: ENV50140: 10 V/m (80 MHz to 1 GHz) (level 3) Immunity Conducted Disturbance: ENV50141:10 V (0.5 to 80 MHz) (level 3) Immunity Burst: EN610004-4: 2 kV power-line (level 3): 2 kV output line (level 4)				
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 (Listed), UL 1950, Class 2 (per UL 1310); CSA C22.2 No. 14/No. 950;	UL 508 (Listed), UL 1950, UL 1012; CSA C22.2 No. 14/No. 950;	UL 508 (Listed), UL 1950, CSA C22.2 No. 14/No. 950;	UL 508, UL 1950; CSA EB1402C EN50178 (VDE 0160), EN60950	
Life expectancy (See Note 8.)	10 yrs.		8 yrs.	10 yrs.	
Weight (See Note 4.)	400 g max.	500 g max.	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.
8. Under rated input voltage, load rated of 50%, ambient temperature of 40°C, and standard mounting.

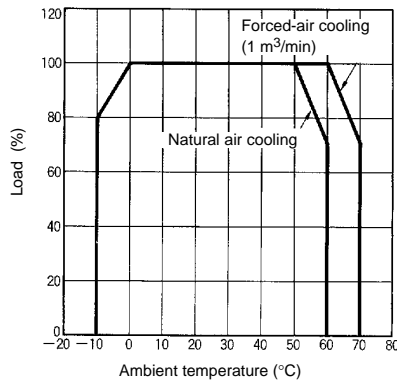
Engineering Data

DERATING CURVE

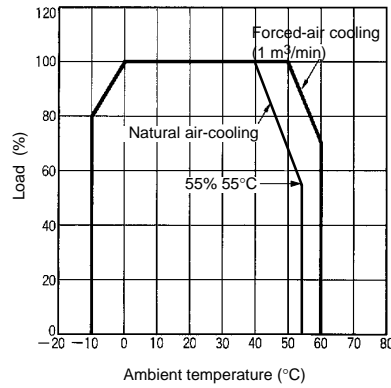
S82J 10/25/50/100 (24 V)/150 W

- Note: 1. The derating curve shown is for standard installation. The derating curve depends on the mounting direction of the Power Supply.
 2. Provide a minimum clearance of 20 mm between the Power Supplies. Refer to the *Mounting* information in the *Dimensions* section.

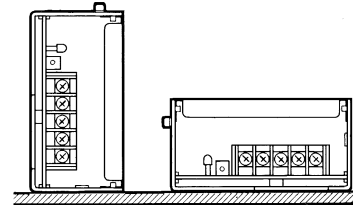
Open-frame type



Covered-type

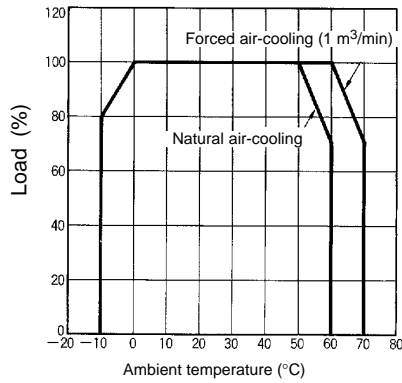


Mounting Position for Standard Installation

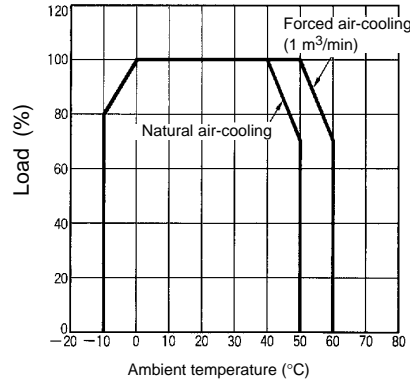


100-W (5, 12, 15 V) Model

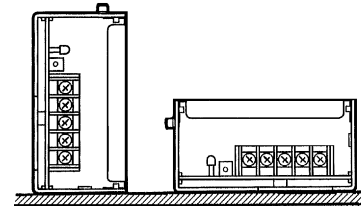
Open-frame type



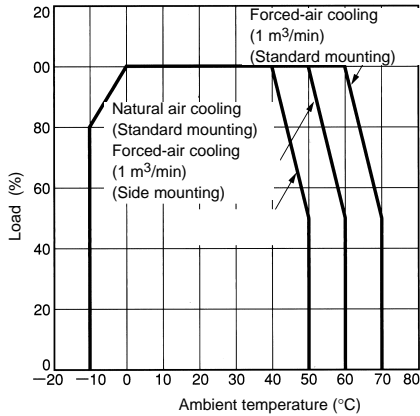
Covered-type



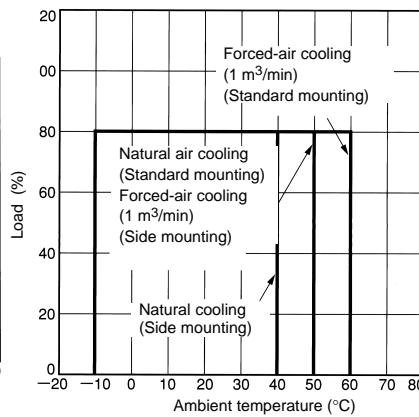
Mounting Position for Standard Installation



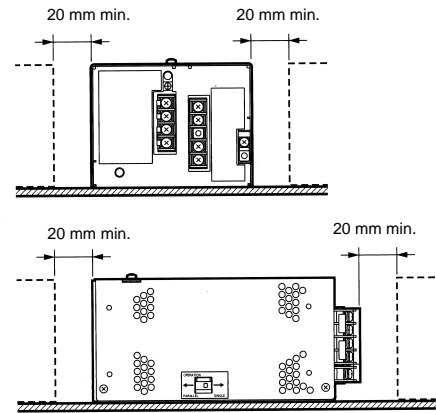
300-W Model
Single Operation



Parallel Operation

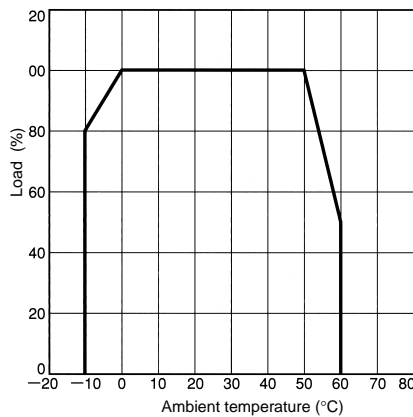


Mounting Position for Standard Installation

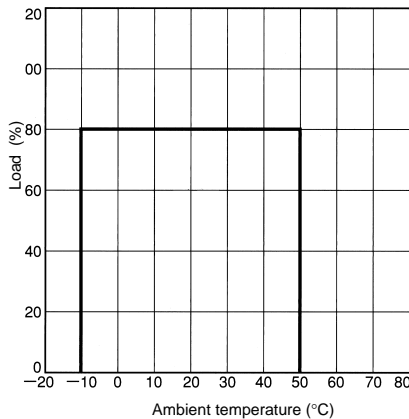


600-W Model

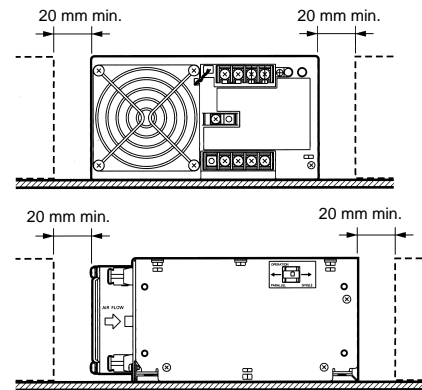
Single Operation



Parallel Operation



Mounting Position for Standard Installation

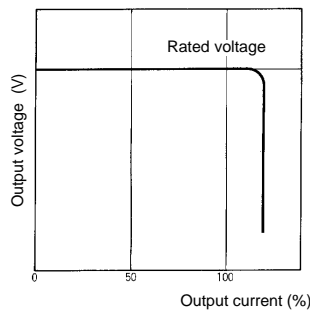


OVERLOAD PROTECTION

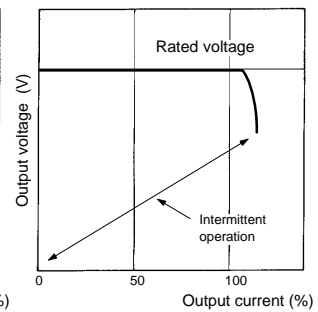
10- to 300-W Models

The Power Supply is provided with an overload protection function that protects the load and the power supply from possible damage by overcurrent. When the output current rises above 105% of the rated output current (105% to 160% of the rated output current for 50 (24 V)-W and 100 (24 V)-W models), 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.

10- to 300-W Models
(except for 50-W (24 V) and 100-W (24 V) Models)



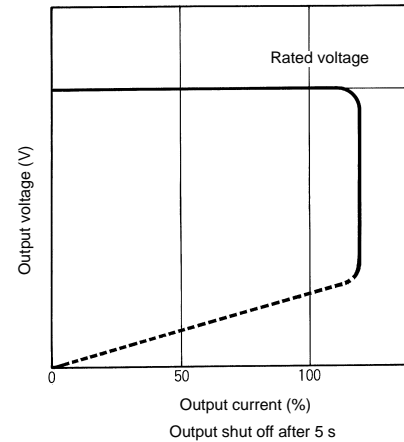
50-W (24 V) and 100-W (24 V) Models



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.



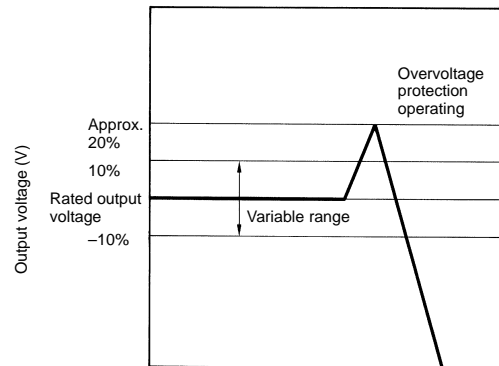
OVERVOLTAGE PROTECTION

100-W (5, 24 V) Output Models

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 (1 minute minimum for 5 V model) 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.



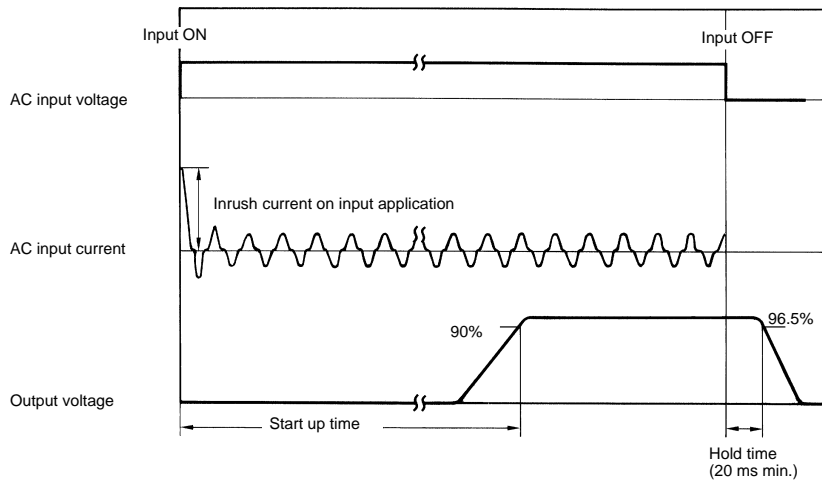
Note: The output voltage can be varied by the V. ADJ adjuster on the front panel. When it is set to a value 10% higher than the rated value, the overvoltage protection function may be effected.

■ OVERHEAT PROTECTION FUNCTION

600-W Model Only

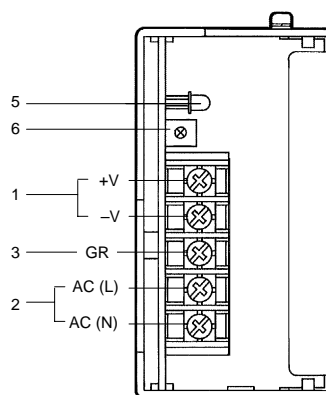
If the internal temperature of the S82J rises excessively as a result of fan failure or any other reason, the overheat protection circuit will be triggered to protect the internal elements of the S82J and simultaneously a protection-ON alarm indicator will be lit. To reset the S82J, turn off the input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

■ INRUSH CURRENT, START UP TIME, HOLD TIME

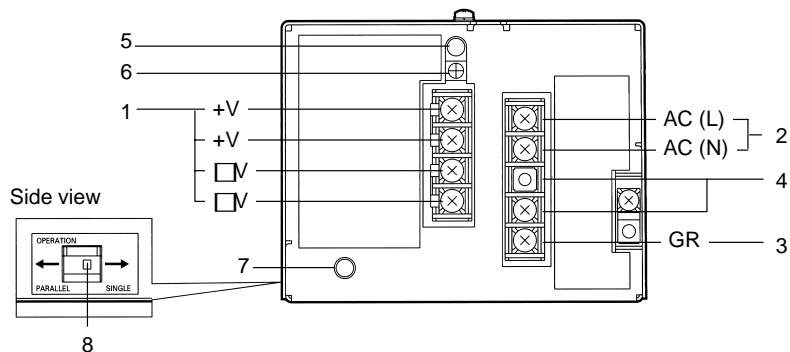


Nomenclature

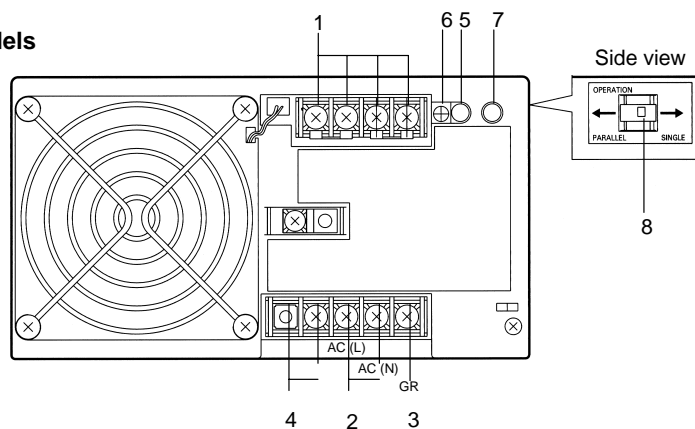
■ S82J 10 W TO 150 W



300-W Models



600-W Models

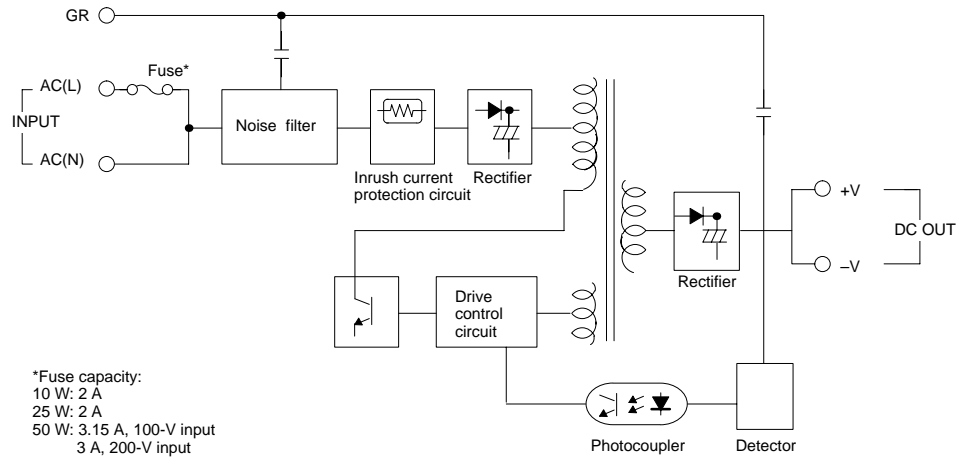


1. **DC Output Terminals:** Connect the load lines to these terminals.
2. **Input Terminals:** Connect the input lines to these terminals.
3. **Ground Terminal (GR):** Connect a ground line to this terminal.
4. **Input Voltage Terminals:** Short-circuit the terminals if the input is 100 to 120 VAC and open the terminals if the input is 200 to 230 VAC
 - Only for 300-W and 600-W units.
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.

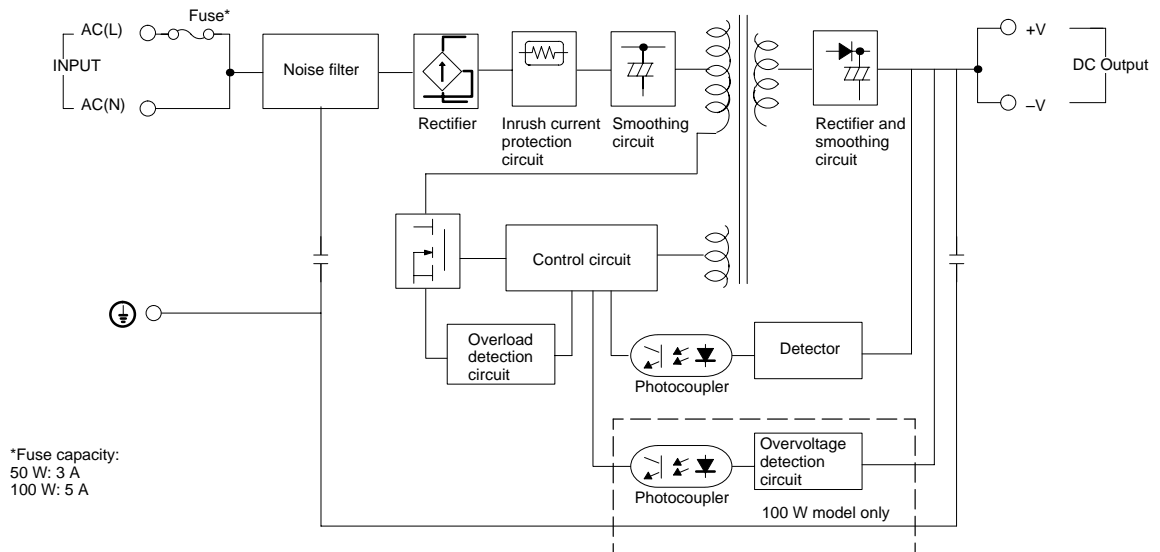
Operation

■ BLOCK DIAGRAMS

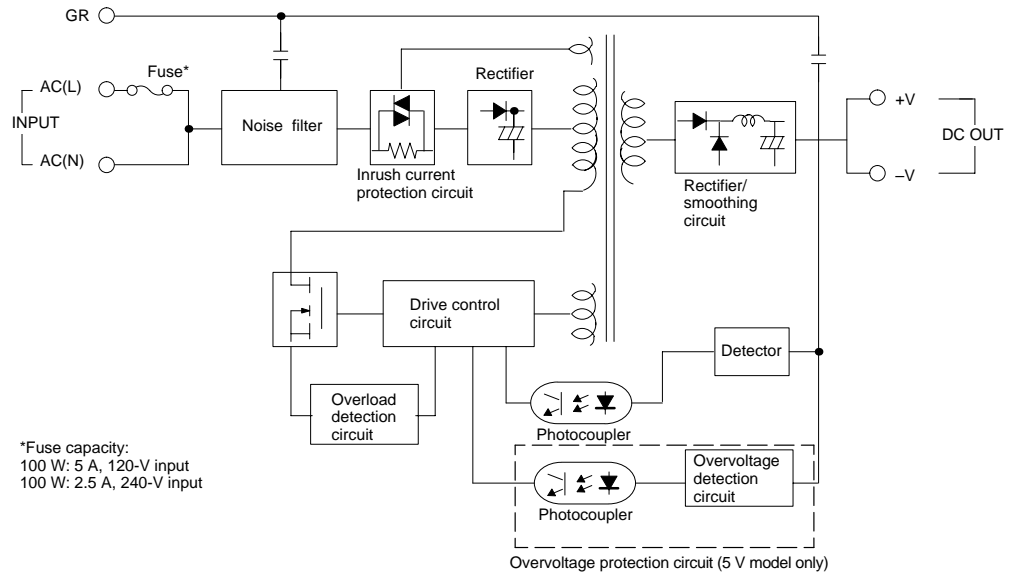
- S82J-□1□□ (10 W)
- S82J-□2□□ (25 W)
- S82J-□505 (50 W)
- S82J-□512 (50 W)



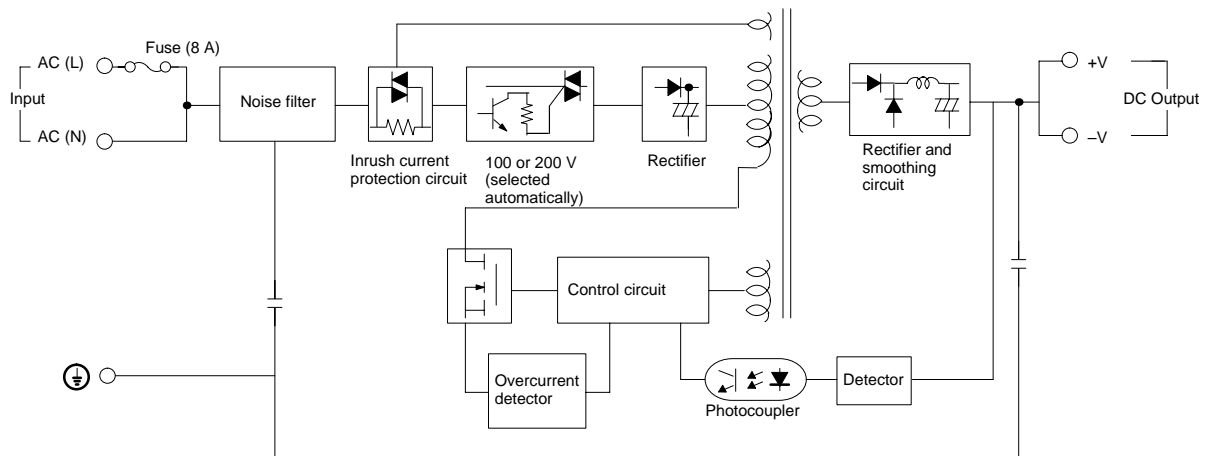
- S82J-05024□
- S82J-10024□



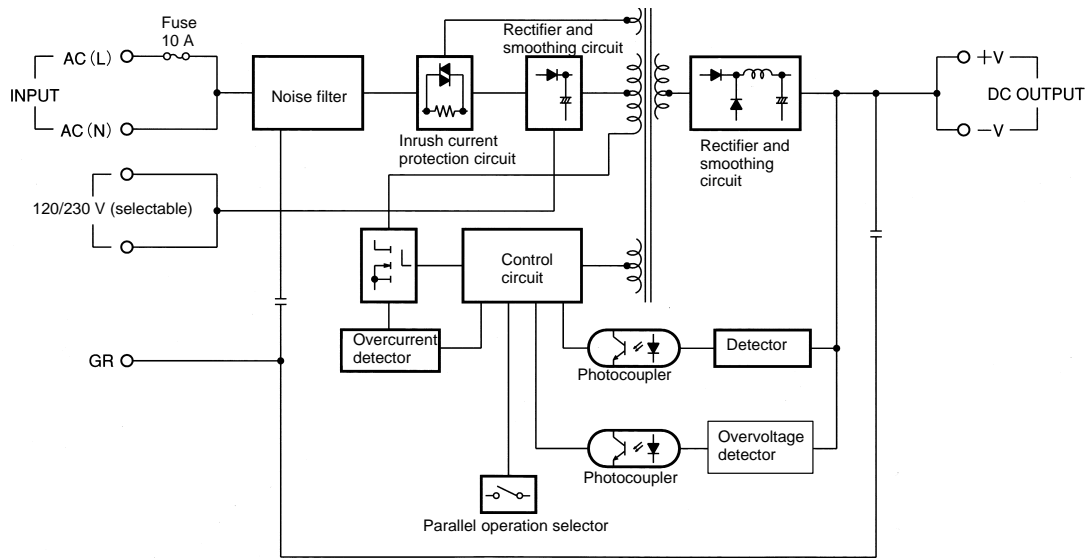
S82J-10005□□ (100 W)
 S82J-10012□□ (100 W)
 S82J-10015□□ (100 W)



S82J-15024□ (150 W)

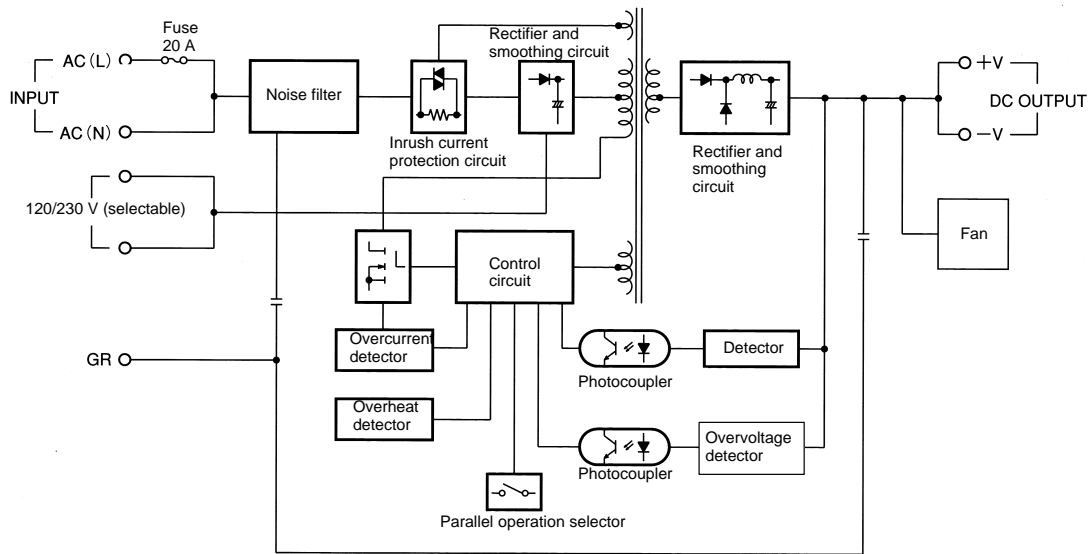


S82J-30024 (300 W)



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.

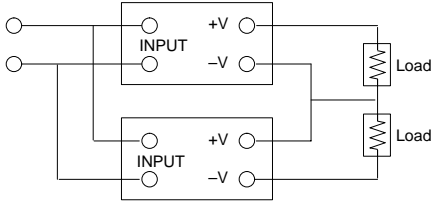
S82J-60024 (600 W)



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 (\pm)

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



If operation amplifiers as loads are connected in series, connect a diode between the positive and negative output terminals of each Switching Power Supplies as shown in the illustration below. Without these diodes, the Power Supplies may not start when power is turned on, possibly damaging internal circuits over a period of time.

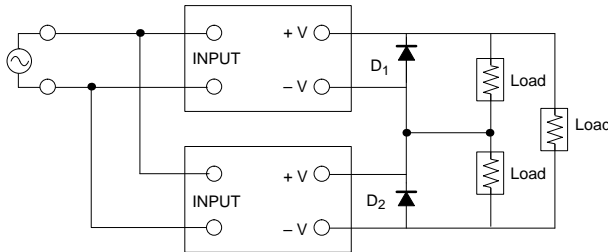
Use Schottky barrier diodes with a low forward voltage (V_F). Other types of diodes will not be effective.

Guidelines for the dielectric strength and current of the diodes are as follows:

Dielectric strength: At least twice the rated output voltage of the Power Supply

Forward current: At least twice the rated output current

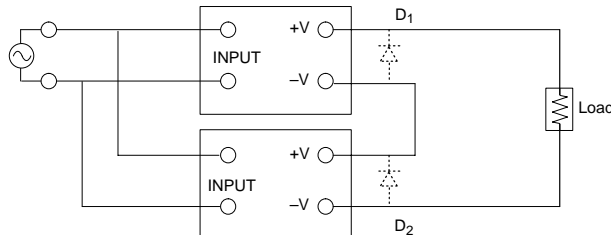
No diodes are required for models that allow series operation.



■ SERIES OPERATION

Only models with power ratings of 50 (24 V)/100/150/300/600 W allow series operation.

As shown in the following diagram, the output voltage from each Switching Power Supply can be added.

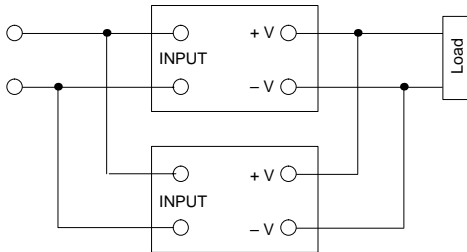


With the S82J-05024□ or S82J-10024□, if the load is shorted a reverse voltage may result in the Power Supply causing deterioration and damage. It is recommended that diodes are connected as shown in the previous diagram (D_1 , D_2).

■ 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.

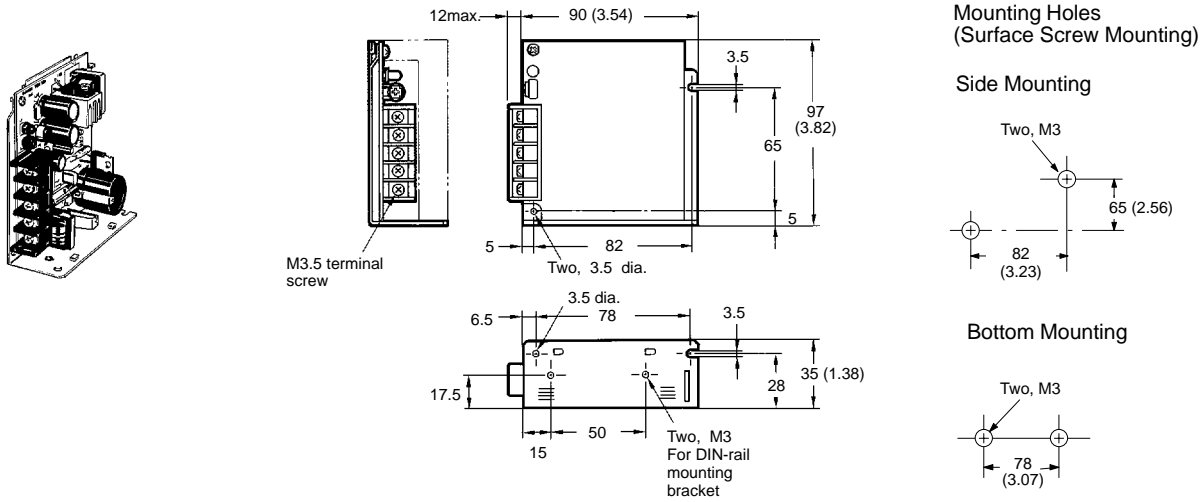


Dimensions

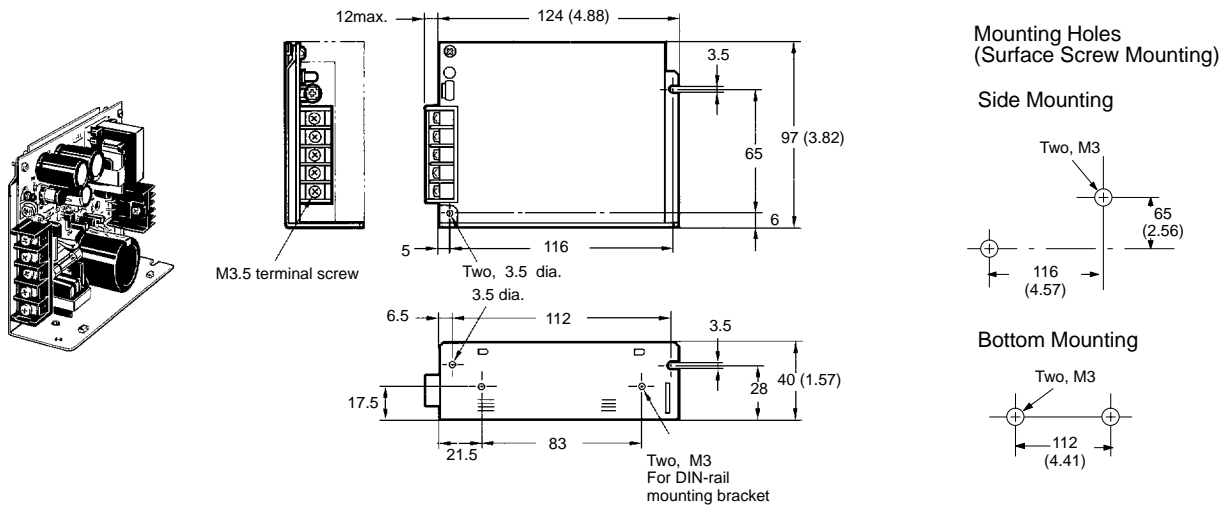
Unit: mm (inch)

■ OPEN-FRAME AND COVERED-FRAME TYPES

S82J-□1□□

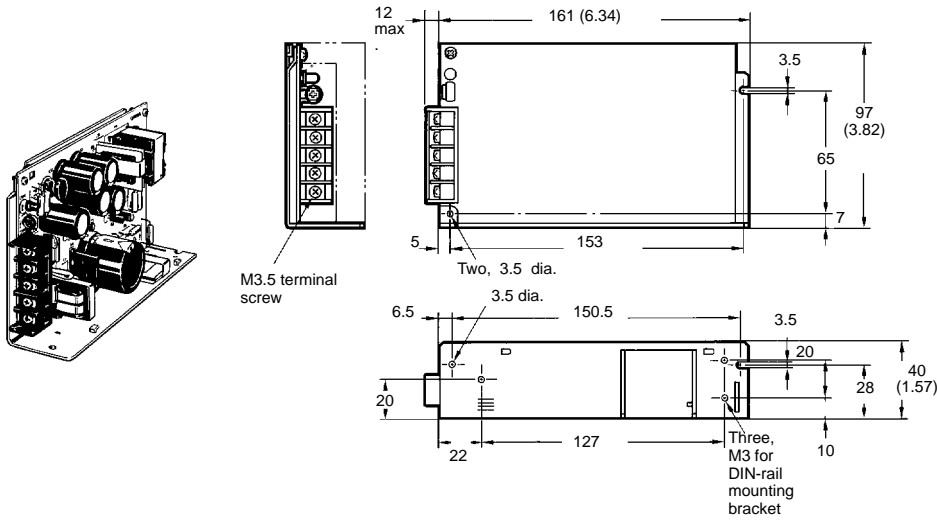


S82J-□2□□



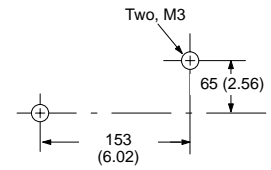
Unit: mm (inch)

S82J-□5□□
S82J-05024□

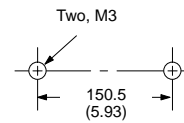


Mounting Holes

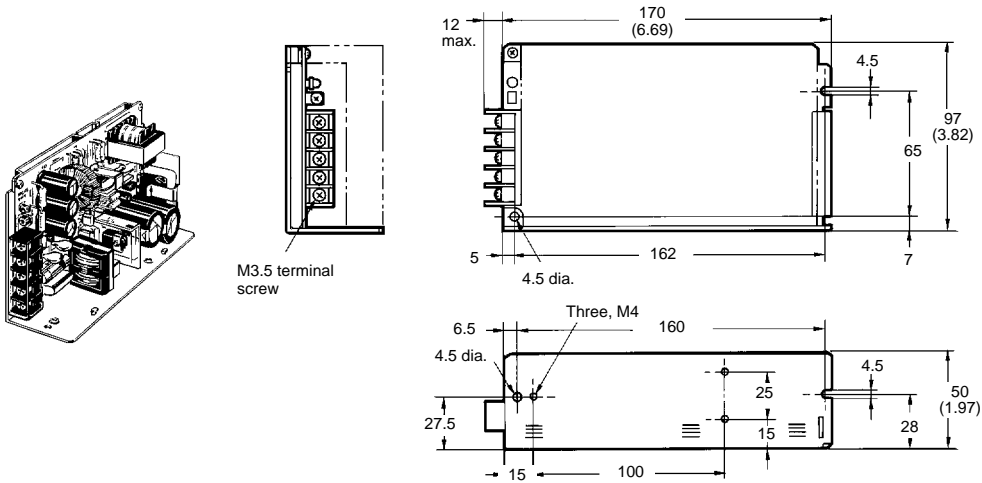
Side Mounting



Bottom Mounting

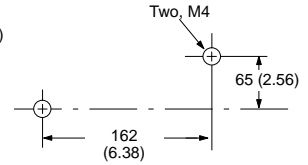


S82J-10024□

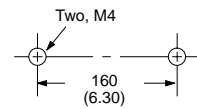


Mounting Holes

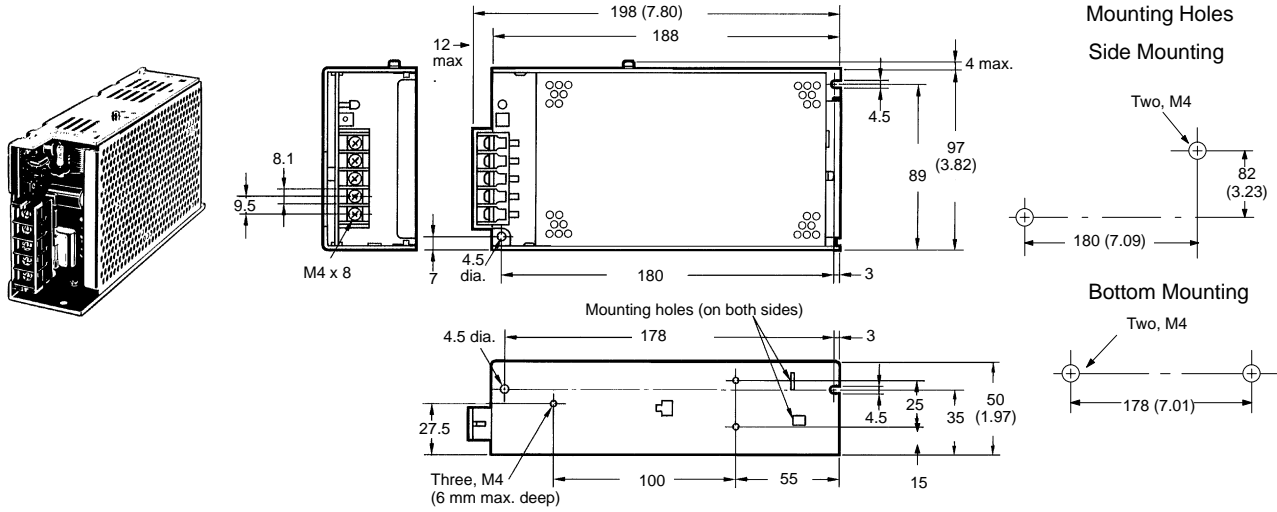
Side Mounting



Bottom Mounting

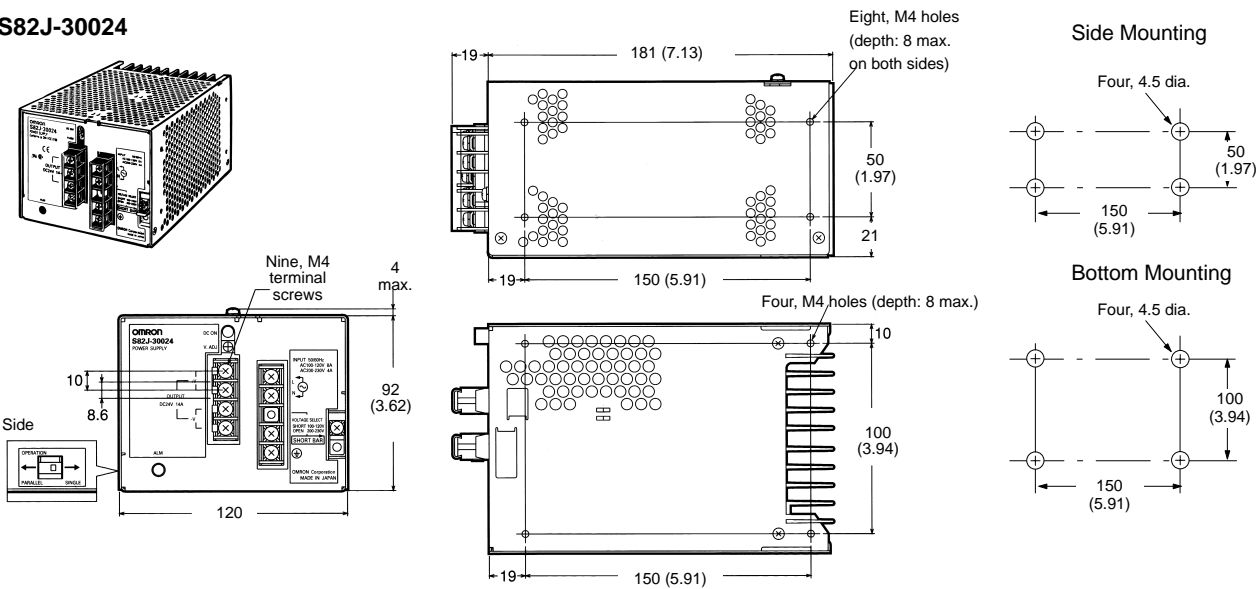


S82J-100 □ □ □ □
 S82J-15024 □



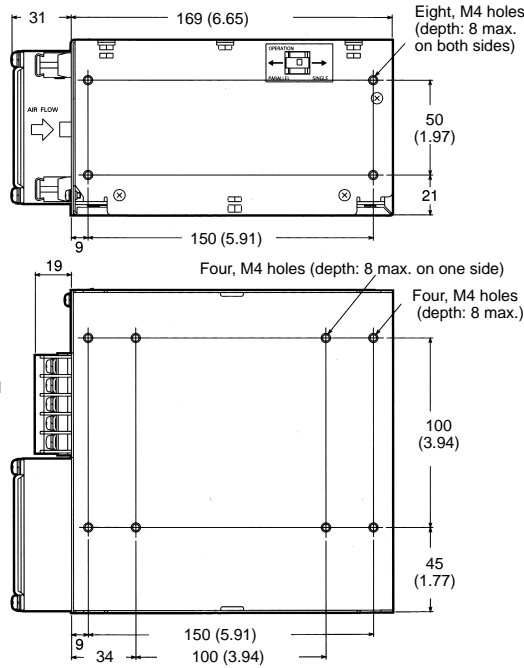
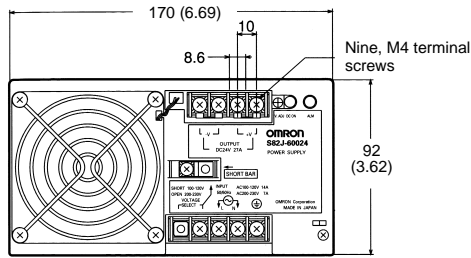
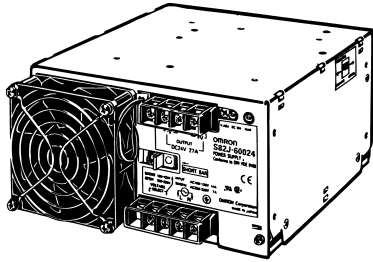
ENCLOSED-FRAME TYPE

S82J-30024

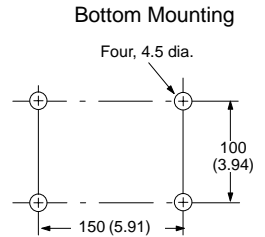
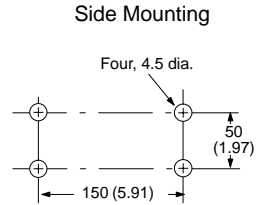


Unit: mm (inch)

S82J-60024



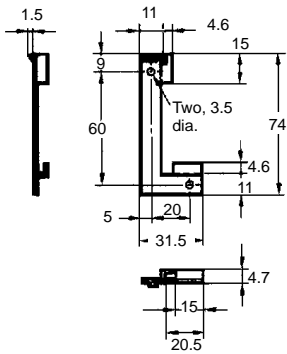
Mounting Holes



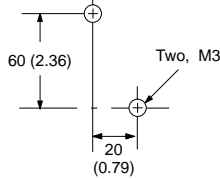
■ **MOUNTING BRACKET (INCLUDED WITH POWER SUPPLY UNIT)**

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

Front-mounting Bracket (Included)

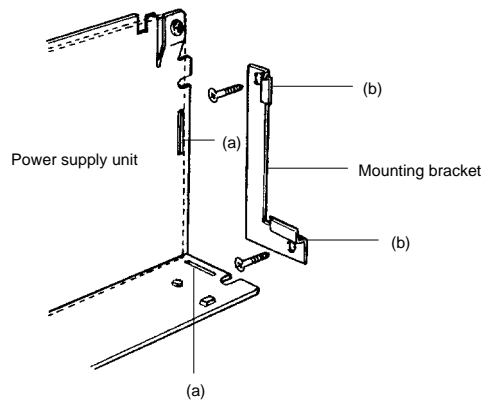


Mounting Holes

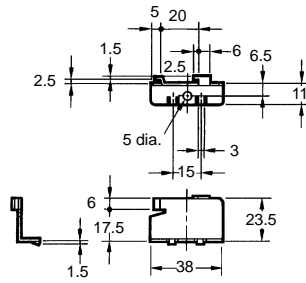
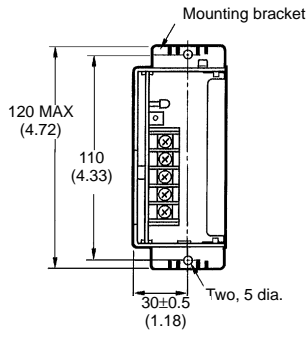


Using the Mounting Bracket

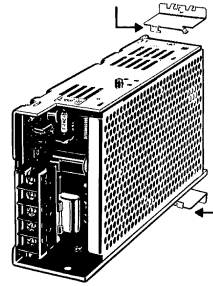
Attach the mounting bracket to the panel and loosely tighten the two screws. Insert the projected parts of the bracket (b) to the square holes of the power supply (a). Then securely tighten the screws.



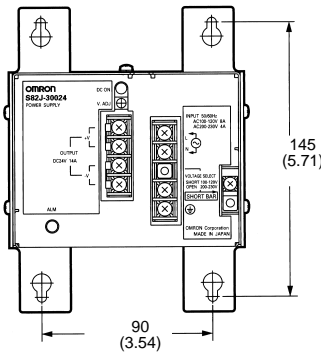
**S82J 100-W (5-/12-/15-V) Models or 150-W Models
Front Mounting Brackets (Included)**



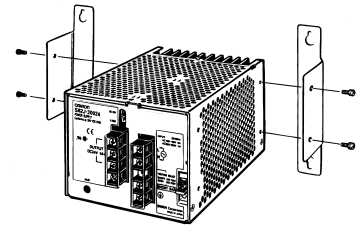
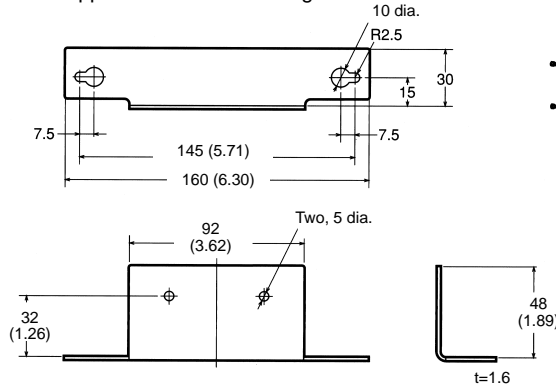
Mounting with Brackets



300-W Models

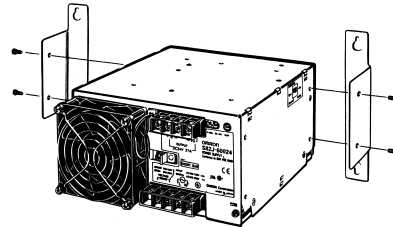
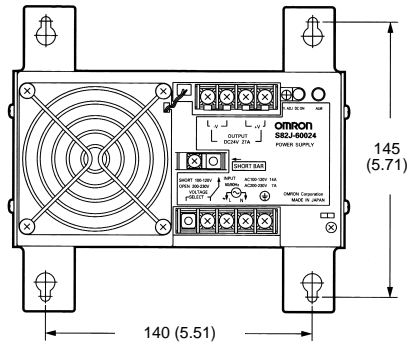


Appearance and Mounting Dimensions



Note: Using the bracket provides 21.6 mm ventilation space.

600-W Models



Note: Using the bracket provides 23.6 mm ventilation space.

Accessories (Order Separately)

Unit: mm (inch)

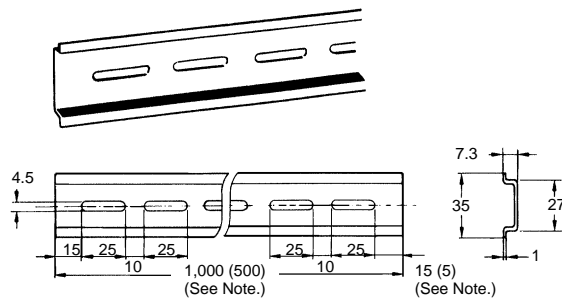
OPTIONAL DIN-RAIL MOUNTING BRACKET (ORDER SEPARATELY)

Item	S82Y-01N	S82Y-03N	S82Y-05N	S82Y-10N
Applicable power supply	S82J-□1□□	S82J-□2□□	S82J-□5□□ S82J-05024□	S82J-100□□□□ S82J-15024□
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)

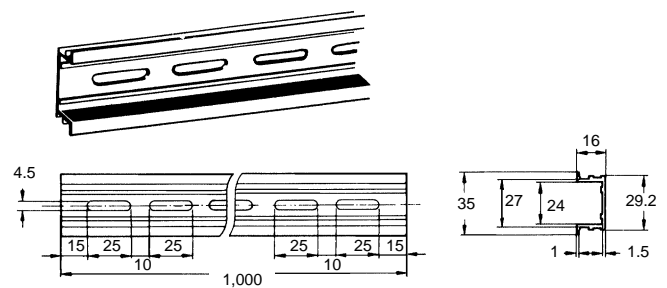
Note: The figures in row L1 apply if a mounting bracket is attached to the power supply. The figures in row L2 apply if PFP-50N or PFP-100N DIN rail is used. Add 10.5 mm to each figure in the L1 row if PFP-100N2 DIN rail is used.

DIN RAIL (ORDER SEPARATELY)

PFP-100N/PFP-50N



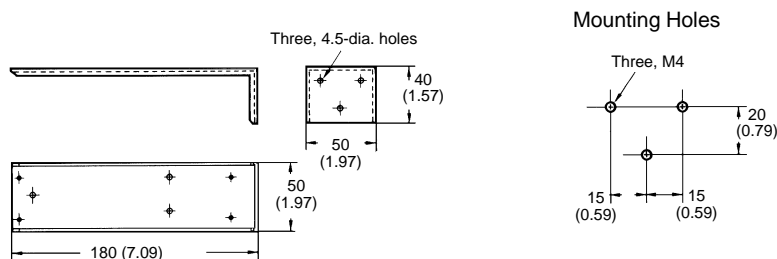
PFP-100N2



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

FRONT-MOUNTING BRACKET FOR 100-W, 24-V (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.

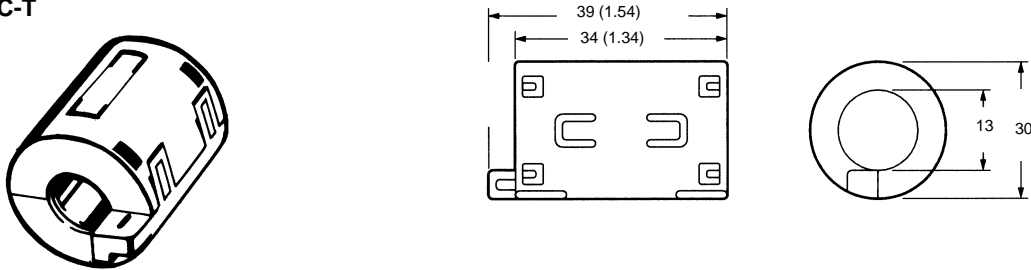
■ COVER (ORDER SEPARATELY)

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	<p>Attaching Cover to Power Supply</p> <p>Remove screw (A) before attaching the cover to the Power Supply. Tighten the screw to secure the cover on the Power Supply.</p> <p>Note: The derating curve shown in <i>Engineering Data</i> may change with changes in ambient temperature when the cover is attached to the Power Supply.</p>			
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)

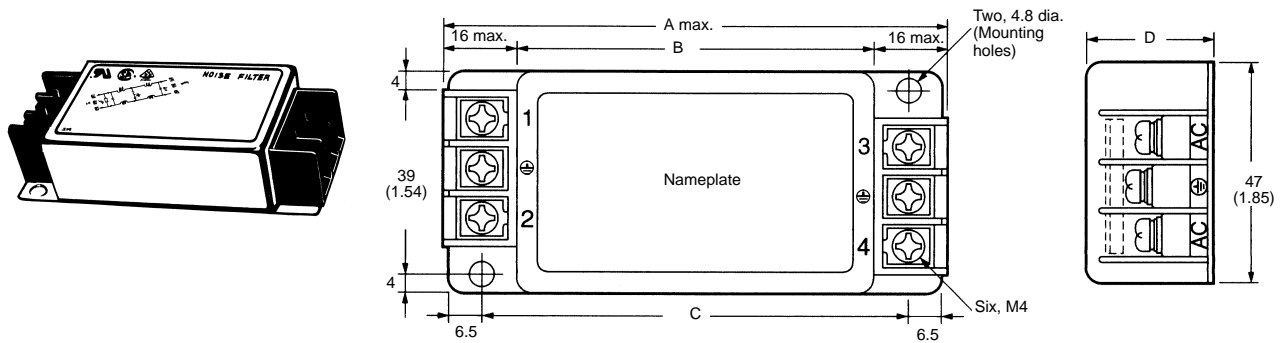
■ FERRITE RING CORE (ORDER SEPARATELY)

S82Y-JC-T



■ NOISE FILTER (ORDER SEPARATELY)

S82Y-JF3-N for 300-W Models
S82Y-JF6-N for 600-W Models



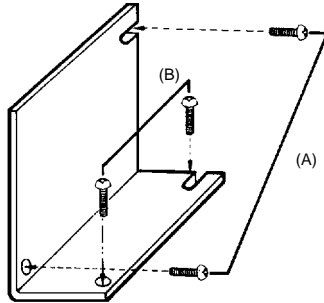
Model	A	B	C	D
S82Y-JF3-N	107 (4.21)	75 (2.95)	90 (3.54)	26 (1.02)
S82Y-JF6-N	117 (4.60)	85 (3.35)	100 (3.94)	30 (1.18)

■ MOUNTING METHODS

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

The following three mounting methods are available.

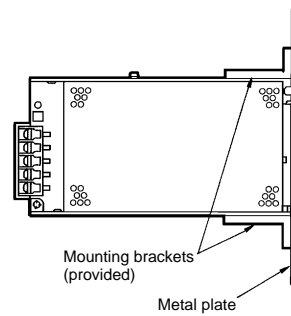
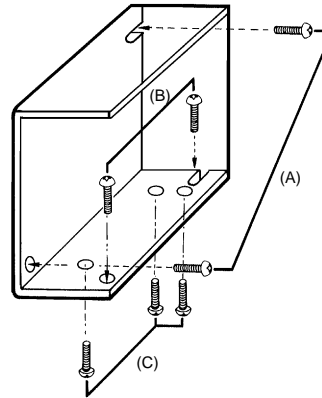
- (A) Side mounting
- (B) Bottom mounting
- (C) Bottom mounting (with S82Y optional bracket)



S82J 100 (5, 12, 15 V)/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)

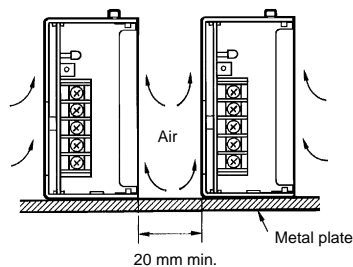


- (A) Front mounting
Front mounting is possible with the mounting brackets provided. Refer to the *Dimensions* Section.

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.

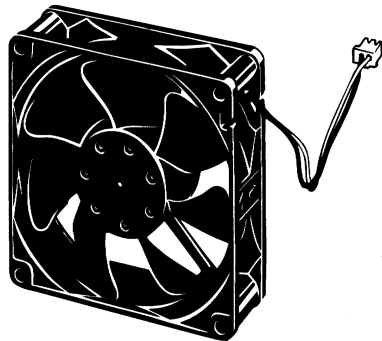


■ FAN REPLACEMENT

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.

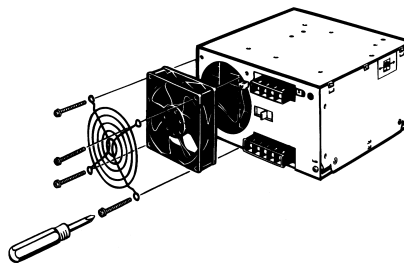
Fans are available as replacements.

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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