

Compact DIN Rail-mounting Power Supplies

- Complies with EN 61000-3-2 harmonic current standards.
- Safety standards: UL, CSA, and EN/VDE.
- Complies with EN 61204-3 Class B.
- Mounting Bracket included for front mounting or DIN Rail mounting.
- RoHS-compliant



Model Number Structure

Model Number Legend

Note: Not all combinations are possible. Refer to *List of Models* in *Ordering Information*, below.

S8PS-

1 2 3

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
- 24: 24 V

3. Configuration

- C: Covered type with Front Mounting Bracket
- D: Open-frame type with DIN Rail Mounting Bracket
- CD: Covered type with DIN Rail Mounting Bracket
- None: Open-frame type with Front Mounting Bracket

Ordering Information

List of Models

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

Configuration	Input voltage	Power ratings	Output voltage	Output current	Front-mounting Model	DIN Rail-mounting Model	
Covered type	100 to 240 VAC	50 W	5 V	10 A	S8PS-05005C	S8PS-05005CD	
			12 V	4.2 A	S8PS-05012C	S8PS-05012CD	
			24 V	2.1 A	S8PS-05024C	S8PS-05024CD	
		100 W	24 V	4.5 A	S8PS-10024C	S8PS-10024CD	
			150 W	24 V	6.5 A	S8PS-15024C	S8PS-15024CD
			300 W	24 V	14 A	S8PS-30024C	S8PS-30024CD
600 W	24 V	27 A	S8PS-60024C	---			
	Open-frame type	100 to 240 VAC	50 W	5 V	10 A	S8PS-05005	S8PS-05005D
				12 V	4.2 A	S8PS-05012	S8PS-05012D
24 V				2.1 A	S8PS-05024	S8PS-05024D	
100 W			24 V	4.5 A	S8PS-10024	S8PS-10024D	
			150 W	24 V	6.5 A	S8PS-15024	S8PS-15024D
				24 V	6.5 A	S8PS-15024	S8PS-15024D

Options (Order Separately)

Name	Model
Fan	S82Y-JFAN

Specifications

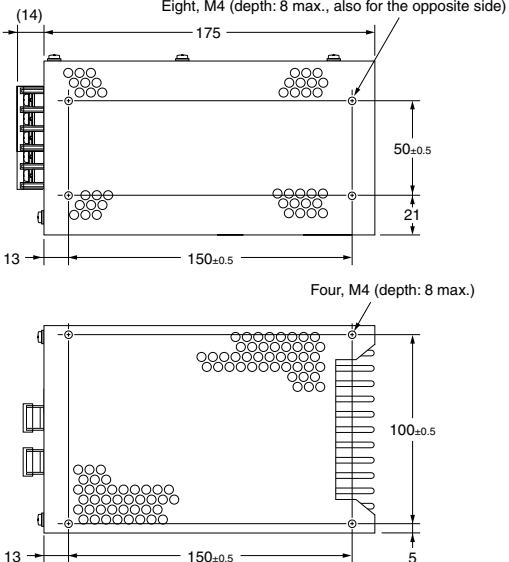
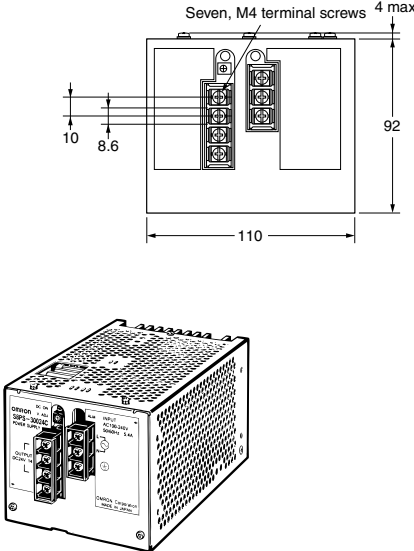
■ Ratings/Characteristics

Item		50 W	100 W	150 W	300 W	600 W	
Efficiency (typical)		74% to 80% (depends on the model)					
Input	Voltage (See note 1.)	100 to 240 VAC (85 to 264 VAC)					
	Frequency (See note 1.)	50/60 Hz (47 to 63 Hz)					
	Current (See note 2.)	100-V input	0.9 A max.	1.8 A max.	2.7 A max.	5.4 A max.	10 A max.
		200-V input	0.45 A max.	0.9 A max.	1.4 A max.	2.7 A max.	5 A max.
	Leakage current (See note 2.)	100-V input	0.5 mA max.				
		200-V input	1.0 mA max.				
	Inrush current (See note 2.)	100-V input	25 A max. (for a cold start at 25°C)				
		200-V input	50 A max. (for a cold start at 25°C)				
Power factor (See note 2.)	0.95 typical						
Harmonic current standards	Based on EN 61000-3-2		Complies with EN 61000-3-2				
Output	Voltage adjustment range (See note 3.)	-5% to 10%					
	Ripple (See note 2.)	2% (p-p) max.					
	Input variation influence	0.4% max. (at 85 to 132 VAC input/at 170 to 264 VAC input, 100% load)					
	Load variation influence	0.8% max. (with rated input, 0 to 100% load)					
	Temperature variation influence (See note 2.)	0.05%/°C max.					
	Startup time	1,000 ms max. (up to 90% of output voltage at rated output voltage/current)				1,500 ms max.	
	Hold time (See note 2.)	20 ms min.					
Additional function	Overload protection	105% min., voltage drop, intermittent operation (With the 600-W model, output is turned OFF at 5 s min.)					
	Overvoltage protection (See note 5.)	Yes					
	Overheat protection	No				Yes	
	Protection-ON alarm indicator	No				Yes (color: red)	
	Parallel operation	No				Yes, 2 units max.	
Other	Heat radiation	Natural air-cooling				Built-in fan	
	Ambient operating temperature	Refer to the derating curve in <i>Engineering Data</i> (with no icing or condensation).					
	Storage temperature	-25 to 65°C					
	Ambient operating humidity	25% to 85%					
	Dielectric strength	3.0 kVAC for 1 min. (between all inputs and outputs) 2.2 kVAC for 1 min. (between all inputs and PE terminal) 1.0 kVAC for 1 min. (between all outputs and PE terminal)					
	Insulation resistance	100 MΩ min. (between all outputs and inputs/PE terminal at 500 VDC)					
	Vibration resistance	10 to 55 Hz, 0.75-mm amplitude for 2 h each in X, Y, and Z directions					
	Shock resistance	300 m/s ² , 3 times each in ±X, ±Y, and ±Z directions					
	Output indicator	Yes (color: green)					
	EMI	Conducted Emission (See note 2.)	Conforms to EN61204-3 EN55011 Class B and based on FCC Class B				
		Radiated Emission	Conforms to EN61204-3 EN55011 Class B				
	EMS	Conforms to EN61204-3 High severity levels					
	Approved standards	UL cUL cUR EN/VDE	UL508, UL1012, UL60950-1 CSA C22.2 No. 14 CSA No. 60950-1 EN50178 (=VDE0160), EN60950-1 (=VDE0805 Teil 1)				
	Weight (See note 6.)	420 g max.	600 g max.	735 g max.	2,200 g max.	3,500 g max.	
	Mounting method	Front Mounting Bracket or DIN Rail Mounting Bracket				Front Mounting Bracket	

Note: 1. Do not use an 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.

- A 100% load for rated input voltage (100 VAC or 200 VAC).
- If the output voltage adjuster (V. ADJ) 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.
- The output will shut off and the protection-ON alarm indicator will simultaneously light. Turn OFF the input power supply, wait 1 min., and then turn ON the input power supply to recover normal operation.
- Turn OFF the input power supply, wait 1 min., and then turn ON the input power to recover normal operation. (For 300-W and 600-W models, the output will shut off and the protection-ON indicator will simultaneously light.)
- The weight indicated is for a front-mounting open-frame model. (includes the cover for 300-W and 600-W front-mounting models.)

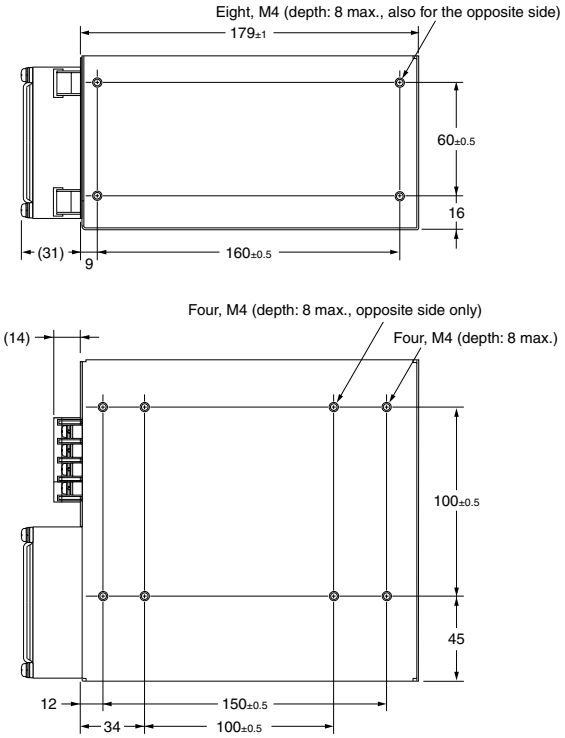
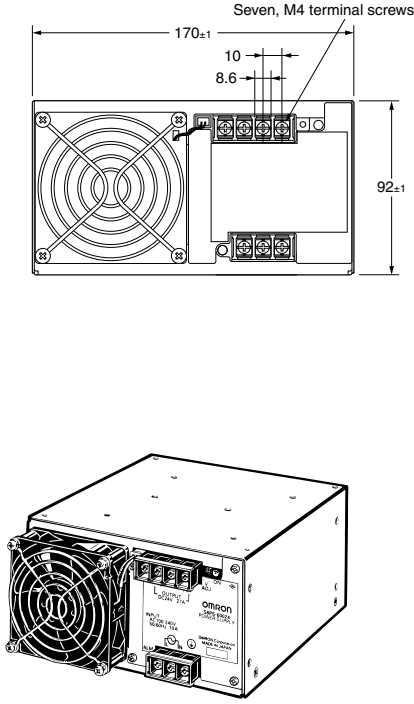
S8PS-30024C (300 W)



Mounting Holes

Front Screw Mounting	
Side Mounting	Four, 4.5 dia. 50±0.5 150±0.5
Bottom Mounting	Four, 4.5 dia. 100±0.5 150±0.5

S8PS-60024C(600 W)



Mounting Holes

Front Screw Mounting	
Side Mounting	Four, 4.5 dia. 60±0.5 160±0.5
Bottom Mounting	Four, 4.5 dia. 100±0.5 150±0.5