

Switch Mode Power Supply (15/30/60/90/120/180/240/480-W Models)

## S8VS-06024

Image

Case model, Input: 100 to 240 VAC, Power rating 60 W, Output: 24 VDC, Terminal blocks (Screw terminal), Harmonic current emissions

Power rating	60 W
Output voltage	24 VDC
Rated input voltage	100 to 240 VAC
Construction	Covered type
Connection	Terminal blocks
Terminal type	Screw terminal

### Specifications

As of February 2, 2017

<b>Power rating</b>		60 W
<b>Output voltage</b>		24 VDC
<b>Efficiency</b>		84% typ. (at 100 VAC input) 83% typ. (at 200 VAC input)
<b>Input</b>	<b>Rated input voltage</b>	100 to 240 VAC
	<b>Allowable input voltage variable range</b>	85 to 264 VAC 80 to 370 VDC
	<b>Note at DC input</b>	The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).
	<b>Frequency</b>	50/60Hz (47 to 450 Hz)
	<b>Rated input current</b>	1.7 A max., 1.3 A typ. (at 100 VAC input) 1.0 A max., 0.68 A typ. (at 200 VAC input)
	<b>Leakage current</b>	0.5 mA max. (at 100 VAC input) 1.0 mA max. (at 200 VAC input)
	<b>Inrush current</b>	17.5 A max., 14 A typ. (at 100 VAC input) 35 A max., 28 A typ. (at 200 VAC input)
<b>Output</b>	<b>Rated output current</b>	2.5 A
	<b>Output voltage variable range</b>	-10 to +15% (With V.ADJ)
	<b>Ripple</b>	70 mV max. (at rated input and output)
	<b>Static input variation influence</b>	0.5% max. (at 85 to 264 VAC input, 100% load)
	<b>Static load variation influence</b>	1.5% max. (rated input, 0 to 100% load)
	<b>Ambient temperature variation influence</b>	0.05%/°C max.
	<b>Start up time</b>	

		620 ms typ. (at 100 VAC input) 400 ms typ. (at 200 VAC input)
	<b>Hold time</b>	34 ms typ. (at 100 VAC input) 158 ms typ. (at 200 VAC input)
<b>Additional functions</b>	<b>Overload protection</b>	Yes, Automatic reset
	<b>Overvoltage protection</b>	Yes, Shut off the input voltage and turn on the input again
	<b>Series operation</b>	Yes (Up to 2 Power Supplies with external diode)
	<b>Output indicator</b>	Yes (color: green)
	<b>Output voltage indication</b>	No
	<b>Output current indication</b>	No
	<b>Peak-hold current indication</b>	No
	<b>Maintenance forecast monitor</b>	output: No
	<b>Total run time monitor</b>	output: No indication: No
	<b>Undervoltage alarm</b>	output: No indication: No
<b>Insulation</b>	<b>Dielectric strength</b>	Between all input terminals and PE terminals: 2 kVAC for 1 min, Detection current: 20 mA Between all input terminals and all output terminals/alarm outputs: 3 kVAC for 1 min, Detection current: 20 mA Between all output terminals/alarm outputs and all PE terminals: 1 kVAC for 1 min, Detection current: 30 mA Between all output terminals and all alarm outputs: 500 VAC for 1 min, Detection current: 20 mA
	<b>Insulation resistance</b>	Between all output terminals/alarm outputs and all input terminals/PE terminals: 100 MΩ min., at 500 VDC
<b>Environment</b>	<b>Vibration resistance</b>	10 to 55 Hz, 0.375 mm single amplitude in each 3 directions for 2 hours
	<b>Shock resistance</b>	150 m/s**2, in each 6 directions 3 times
	<b>Ambient temperature (Operating)</b>	-10 to 60°C
	<b>Ambient temperature (Storage)</b>	-25 to 65°C
	<b>Ambient humidity (Operating)</b>	25 to 85%
	<b>Ambient humidity (Storage)</b>	25 to 90%
<b>Reliability</b>	<b>Life expectancy</b>	10 years (at rated input, a load rate of 50% load, under the temperature of 40 °C, standard mounting)
<b>Construction</b>	<b>Construction</b>	Covered type
	<b>Connection</b>	Terminal blocks
	<b>Terminal type</b>	Screw terminal
	<b>Mounting</b>	DIN track mounting
	<b>Attachment</b>	Terminal block cover
	<b>Weight (Main)</b>	Approx. 330 g

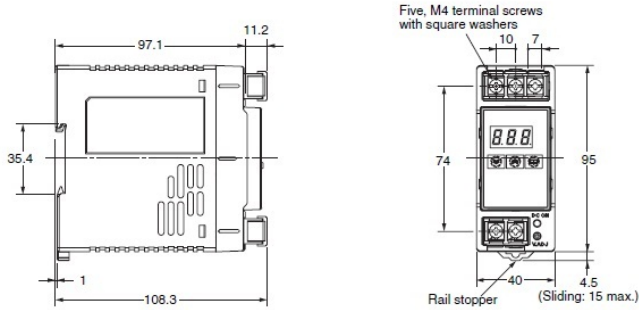
**Note**

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.

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### Demension

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**Note:** The illustration is the S8VS-06024A model.

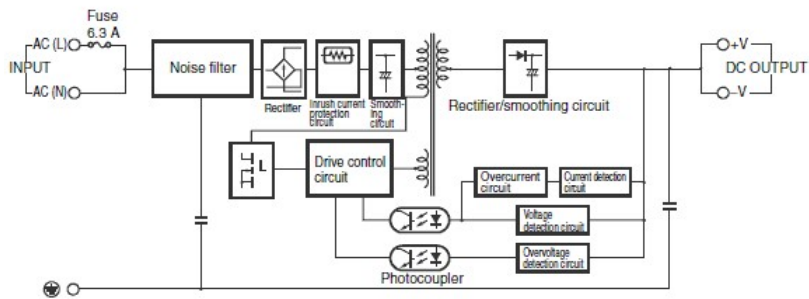
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### Connection diagram

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Block diagram

**S8VS-06024-□ (60 W)**



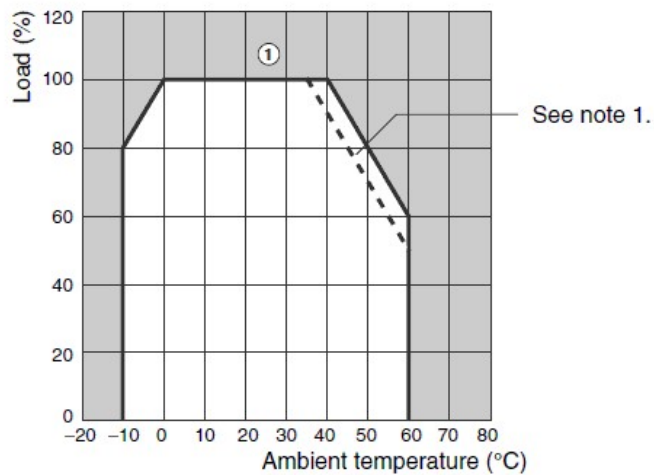
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### Derating curve

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(60-W, 90-W, 120-W, 180-W, 240-W, and 480-W Models)

## Derating Curve



- Note: 1.** Using side mounting bracket for right-side mounting (excluding 240-W models).
- 2.** Internal parts may occasionally deteriorate or be damaged. Do not use the Power Supply in areas outside the derating curve (i.e., the area shown by shading ① in the above graph).
- 3.** If there is a derating problem, use forced air-cooling.
- 4.** When using a 480-W model at an input voltage of 95 VAC or less, derate the load by at least 80%.

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