Ordering Information

List of Models

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

Models without Indication Monitor (Standard Models)

Power ratings	Input voltage	Output voltage (VDC)	Output current	UL Class 2 Output standards	Model number (screw terminal block)	Model number (screwless terminal block)
15 W	100 to 240 VAC (allowable range: 85 to 264 VAC or 80 to 370 VDC ✻3)	5 V	2.0 A	Yes	**S8VS-01505 ✻1**	---
		12 V	1.2 A	Yes	**S8VS-01512**	
		24 V	0.65 A	Yes	**S8VS-01524**	
30 W		5 V	4.0 A	Yes	**S8VS-03005 ✻2**	
		12 V	2.5 A	Yes	**S8VS-03012**	
		24 V	1.3 A	Yes	**S8VS-03024**	
60 W		24 V	2.5 A	Yes	**S8VS-06024**	**S8VS-06024-F**
90 W			3.75 A	---	**S8VS-09024**	**S8VS-09024-F**
				Yes	**S8VS-09024S**	**S8VS-09024S-F**
120 W			5 A	---	**S8VS-12024**	**S8VS-12024-F**
180 W			7.5 A	---	**S8VS-18024**	**S8VS-18024-F**
240 W			10 A	---	**S8VS-24024**	**S8VS-24024-F**
480 W	100 to 240 VAC		20 A Peak current 30 A	---	**S8VS-48024**	**S8VS-48024-F**

✻1. The output capacity of the S8VS-01505 is 10 W.
✻2. The output capacity of the S8VS-03005 is 20 W.
✻3. The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).

Models with Indication Monitor (Maintenance Forecast Monitor)

Power ratings	Input voltage	Output voltage (VDC)	Output current	Alarm output ✻2	UL Class 2 Output standards	Model number (screw terminal block)	Model number (screwless terminal block)
60 W	100 to 240 VAC (allowable range: 85 to 264 VAC or 80 to 370 VDC ✻1)	24 V	2.5 A	---	Yes	**S8VS-06024A**	**S8VS-06024A-F**
90 W			3.75 A	Sinking	---	**S8VS-09024A**	**S8VS-09024A-F**
				Sinking	Yes	**S8VS-09024AS**	**S8VS-09024AS-F**
				Sourcing	---	**S8VS-09024AP**	**S8VS-09024AP-F**
				Sourcing	Yes	**S8VS-09024APS**	**S8VS-09024APS-F**
120 W			5 A	Sinking	---	**S8VS-12024A**	**S8VS-12024A-F**
				Sourcing	---	**S8VS-12024AP**	**S8VS-12024AP-F**
180 W			7.5 A	Sinking	---	**S8VS-18024A**	**S8VS-18024A-F**
				Sourcing	---	**S8VS-18024AP**	**S8VS-18024AP-F**
240 W			10 A	Sinking	---	**S8VS-24024A**	**S8VS-24024A-F**
				Sourcing	---	**S8VS-24024AP**	**S8VS-24024AP-F**
480 W	100 to 240 VAC		20 A Peak current 30 A	Sinking/ sourcing	---	**S8VS-48024A**	**S8VS-48024A-F**

✻1. The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).
✻2. In the *Alarm output* column, “sinking” indicates an emitter COM and “sourcing” indicates a collector COM.

Models with Indication Monitor (Total Run Time Monitor)

Power ratings	Input voltage	Output voltage (VDC)	Output current	Alarm output ✻2	UL Class 2 Output standards	Model number (screw terminal block)	Model number (screwless terminal block)
60 W	100 to 240 VAC (allowable range: 85 to 264 VAC or 80 to 370 VDC) ✻1	24 V	2.5 A	---	Yes	**S8VS-06024B**	**S8VS-06024B-F**
90 W			3.75 A	---	---	**S8VS-09024BE**	**S8VS-09024BE-F**
				---	Yes	**S8VS-09024BES**	**S8VS-09024BES-F**
				Sinking	---	**S8VS-09024B**	**S8VS-09024B-F**
				Sinking	Yes	**S8VS-09024BS**	**S8VS-09024BS-F**
				Sourcing	---	**S8VS-09024BP**	**S8VS-09024BP-F**
				Sourcing	Yes	**S8VS-09024BPS**	**S8VS-09024BPS-F**
120 W			5 A	---	---	**S8VS-12024BE**	**S8VS-12024BE-F**
				Sinking	---	**S8VS-12024B**	**S8VS-12024B-F**
				Sourcing	---	**S8VS-12024BP**	**S8VS-12024BP-F**
180 W			7.5 A	---	---	**S8VS-18024BE**	**S8VS-18024BE-F**
				Sinking	---	**S8VS-18024B**	**S8VS-18024B-F**
				Sourcing	---	**S8VS-18024BP**	**S8VS-18024BP-F**
240 W			10 A	---	---	**S8VS-24024BE**	**S8VS-24024BE-F**
				Sinking	---	**S8VS-24024B**	**S8VS-24024B-F**
				Sourcing	---	**S8VS-24024BP**	**S8VS-24024BP-F**
480 W	100 to 240 VAC		20 A Peak current 30 A	Sinking/ sourcing	---	**S8VS-48024B**	**S8VS-48024B-F**

✻1. The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).
✻2. In the *Alarm output* column, “sinking” indicates an emitter COM and “sourcing” indicates a collector COM.
Note: Refer to pages 26 to 27 for the options that available.

Specifications

Ratings/Characteristics

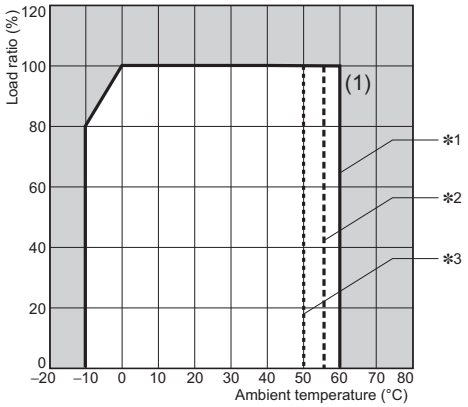
Item			Power ratings	15 W			30 W		
			Output voltage (VDC)	5 V	12 V	24 V	5 V	12 V	24 V
Efficiency			With 100-VAC input	74% typical	79% typical	83% typical	74% typical	81% typical	85% typical
			With 200-VAC input	73% typical	78% typical	80% typical	74% typical	80% typical	86% typical
Input	Voltage ✻1			100 to 240 VAC (allowable range: 85 to 264 VAC, 80 to 370 VDC ✻5)					
	Frequency ✻1			50/60 Hz (47 to 450 Hz)					
	Current		With 100-VAC input	0.45 A max., 0.34 A typical			0.9 A max., 0.66 A typical		
			With 200-VAC input	0.25 A max., 0.22 A typical			0.6 A max., 0.4 A typical		
	Power factor ✻6			---					
	Harmonic current regulation			Conforms to EN61000-3-2					
	Leakage current		With 100-VAC input	0.5 mA max.					
			With 200-VAC input	1.0 mA max.					
	Inrush current ✻2		With 100-VAC input	17.5 A max., 14 A typical					
			With 200-VAC input	35 A max., 28 A typical					
Output	Voltage adjustment range ✻3			–10% to 15% (with V.ADJ)					
	Ripple noise voltage (at rated I/O)			60 mV max.	70 mV max.	60 mV max.	60 mV max.	90 mV max.	150 mV max.
	Input variation influence			0.5% max. (at 85- to 264-VAC input, 100% load)					
	Load variation influence (rated input voltage)			2.0% max. (5 V), 1.5% max. (12 V, 24 V), (with rated input, 0 to 100% load)					
	Temperature variation influence			0.05%/°C max.					
	Startup time (at rated I/O) ✻2		With 100-VAC input	580 ms typical	530 ms typical	600 ms typical	500 ms typical	560 ms typical	560 ms typical
			With 200-VAC input	340 ms typical	360 ms typical	400 ms typical	360 ms typical	380 ms typical	400 ms typical
	Output hold time (at rated I/O) ✻2		With 100-VAC input	39 ms typical	27 ms typical	28 ms typical	31 ms typical	22 ms typical	31 ms typical
			With 200-VAC input	187 ms typical	134 ms typical	134 ms typical	174 ms typical	123 ms typical	140 ms typical
Additional functions	Overload protection ✻2			The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).					
	Overvoltage protection ✻2			Yes ✻4					
	Output voltage indication			No					
	Output current indication			No					
	Peak-hold current indication			No					
	Maintenance forecast monitor indication			No					
	Maintenance forecast monitor output			No					
	Total run time monitor indication			No					
	Total run time monitor output			No					
	Undervoltage alarm indication			Yes (color: red)					
	Undervoltage alarm output			No					
	Parallel operation			No (However, backup operation is possible. An external diode is required.)					
	Series operation			Models with 24-V output: Possible for up to 2 Power Supplies (with external diode) Models with 5- or 12-V output: Not possible					
Other	Operating ambient temperature			Refer to the derating curve in *Engineering Data*. (with no icing or condensation)					
	Storage temperature			–25 to 65°C					
	Operating ambient humidity			25% to 85% (Storage humidity: 25% to 90%)					
	Dielectric strength			3.0 kVAC for 1 min. (between all inputs and outputs; detection current: 20 mA) 2.0 kVAC for 1 min. (between all inputs and PE terminals; detection current: 20 mA) 1.0 kVAC for 1 min. (between all outputs and PE terminals; detection current: 20 mA)					
	Insulation resistance			100 MΩ min. (between all outputs and all inputs/ PE terminals) at 500 VDC					
	Vibration resistance			10 to 55 Hz, 0.375-mm single amplitude for 2 h each in X, Y, and Z directions					
	Shock resistance			150 m/s², 3 times each in ±X, ±Y, and ±Z directions					
	Output indicator			Yes (color: green)					
	EMI		Conducted Emissions	Conforms to EN55011 Group1 Class B and based on FCC Class A					
			Radiated Emissions	Conforms to EN55011 Group1 Class B					
	EMS			Conforms to EN61204-3 high severity levels					
	Approved standards			UL 508 (Listing, Class2 Output: Per 1310) UL 62368-1 CSA C22.2 No.107.1 (cUL) (Class2 Output: Per CSA C22.2 No.223) CSA C22.2 No.62368-1 (cUR) EN 62477-1, EN 62368-1 RCM mark BIS: IS 13252 (Part 1) (30 W, 12 V and 24 V only) ✻7					
	SEMI			F47-0706 (With 200-VAC input)					
	Weight			160 g max.			180 g max.		

✻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.
✻2. For a cold start at 25°C. Refer to *Engineering Data* on page 20 for details.
✻3. If the output voltage adjuster (V. ADJ) is turned, the voltage will increase by more than +15% 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.
✻4. To reset the protection, turn OFF the input power for three minutes or longer and then turn it back ON.
✻5. The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).
✻6. The value is when both rated output voltage and rated output current are satisfied.
✻7. This BIS Standard is an Indian standard that has been in effect for this product since April 2021, and certification has been acquired for some models to enable individual product export to India. For details, refer to *List of Models with Bureau of Indian Standards (BIS) Certification* on page 10.

Engineering Data

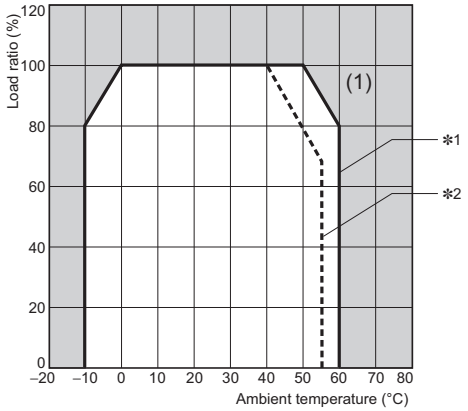
Derating Curve

15 W <S8VS-015□□>



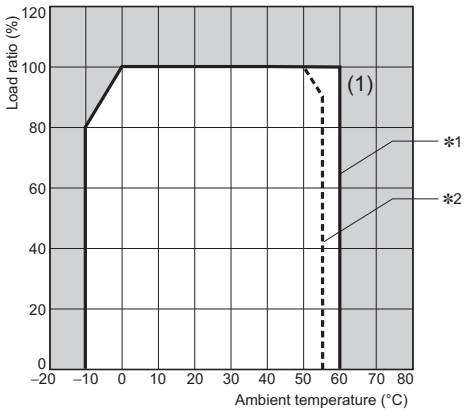
∗1 Standard mounting
∗2 Face-up mounting
∗3 Horizontal mounting

30 W <S8VS-03005/S8VS-03012>



∗1 Standard mounting
∗2 Face-up mounting/Horizontal mounting

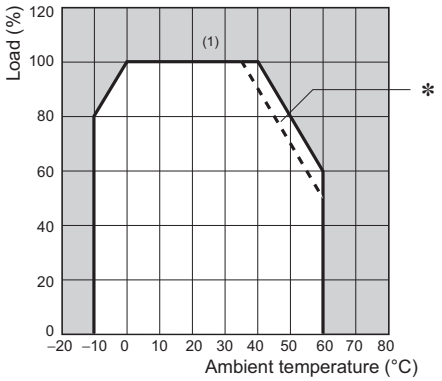
30 W <S8VS-03024>



∗1 Standard mounting
∗2 Face-up mounting/Horizontal mounting

Note: 1. 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).
2. If there is a derating problem, use forced air-cooling.
3. Provide a space of at least 20 mm when using standard mounting and horizontal mounting. If 20 mm is not available, make sure that the space is at least 10 mm. In this case, reduce the corresponding derating curve by 5°C.
4. DC Inputs
If the input voltage is less than 100 VDC, reduce the load given in the above derating curve by at least the following factor.
S8VS-03005: 0.7 max.
S8VS-03012/03024: 0.85 max.

60, 90, 120, 180, 240, and 480 W



∗ Using side mounting bracket for right-side mounting (excluding 240-W models). UL certification conditions do not apply if the side mounting bracket is used.

Note: 1. 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).
2. If there is a derating problem, use forced air-cooling.
3. When using a 480-W model at an input voltage of 95 VAC or less, derate the load by at least 80%.
4. DC Inputs
If the input voltage is less than 100 VDC, reduce the load given in the above derating curve by at least the following factor.
60-W models: 0.9 max.
90-W models: 0.85 max.
120-W/180-W/240-W models: 0.8 max.

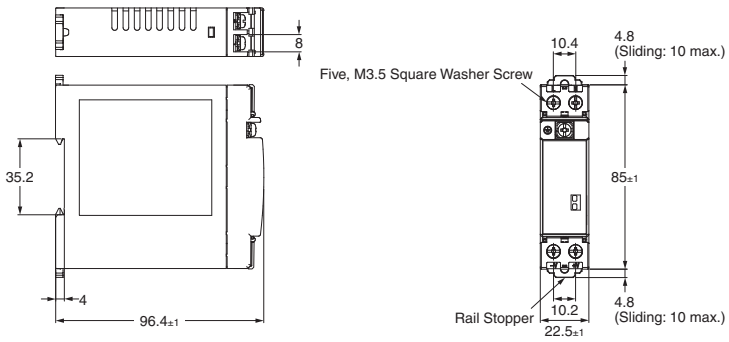
Dimensions

Power Supplies with Screw Terminal Blocks

Note: All units are in millimeters unless otherwise indicated.

S8VS-015□□ (15 W)
S8VS-030□□ (30 W)

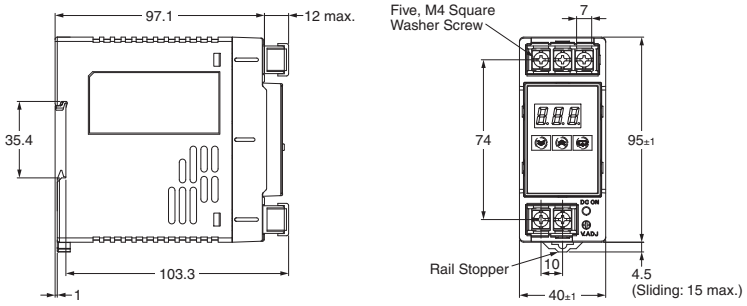




Note: The illustration is the S8VS-03024 model.

S8VS-06024 (60 W)
S8VS-06024A (60 W)
S8VS-06024B (60 W)

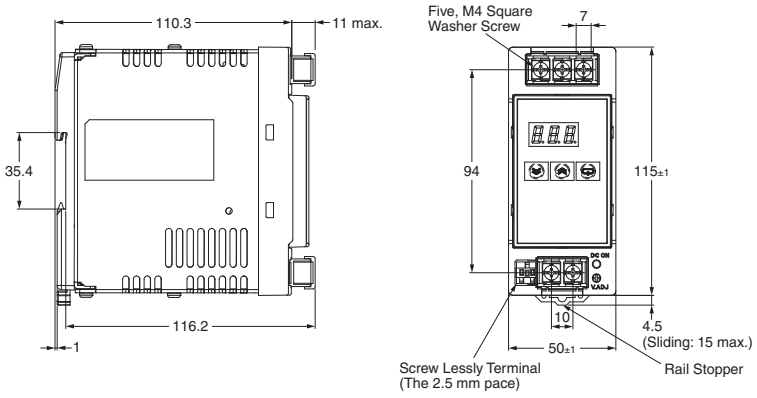




Note: The illustration is the S8VS-06024A model.

S8VS-09024 (90 W) /S8VS-09024S (90 W) /S8VS-12024 (120 W)
S8VS-09024A□ (90 W) /S8VS-09024A□S (90 W) /S8VS-12024A□ (120 W)
S8VS-09024B□ (90 W) /S8VS-09024B□S (90 W) /S8VS-12024B□ (120 W)
S8VS-09024BE (90 W) /S8VS-09024BES (90 W) /S8VS-12024BE (120 W)

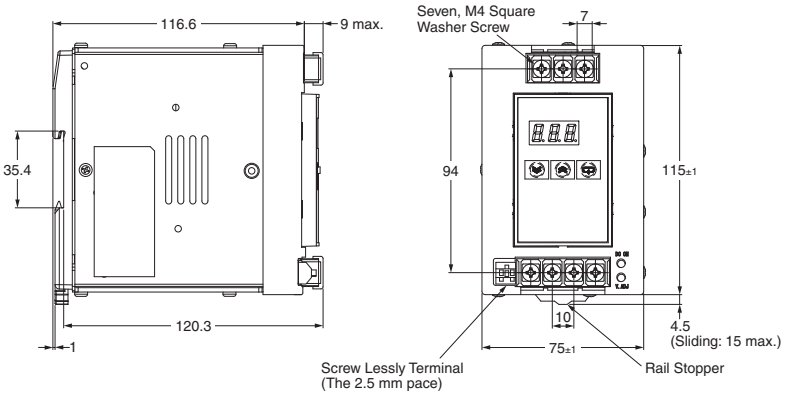




Note: The illustration is the S8VS-12024A model.

S8VS-18024 (180 W)
S8VS-18024A□ (180 W)
S8VS-18024B□ (180 W)
S8VS-18024BE (180 W)





Note: The illustration is the S8VS-18024A model.