

60/90/120/180/240/480-W Models

Improved Versions of Standard-type Power Supplies without Indication Monitor (60 to 240 W). EMI Class B Compliant.

- New 90-W models that conform to UL Class 2 standards.
- New models with screwless terminal blocks and without indication monitor (except that 480-W models have an indication monitor).
- Status displayed on 3-digit, 7-segment display.
- Safety standards:
UL508/60950-1,
CSA C22.2 No. 14/60950-1
(15-W, 30-W, 60-W to 240-W models with Indication monitor),
CSA C22.2 No. 107.1/60950-1
(60-W to 240-W standard, 480-W models),
EN 50178 (= VDE0160),
EN 60950-1 (= VDE0805 Teil 1)
- Compact: 150 × 115 × 127.2 mm (W × H × D) (480-W models).



15/30-W Models

Compact, Thin Power Supplies That Mount Just About Anywhere to Contribute to Control Panel Downsizing

- Compact and thin: 22.5 × 85 × 96.5 mm (W × H × D).
- Three mounting directions
(standard, horizontal, facing horizontal).
- Mounting directly to the panel is possible.
- Safety standards:
UL508/60950-1/1604, cUL: CSA C22.2 No. 14/60950-1/213,
EN50178 (= VDE0160), EN60950-1 (= VDE0805 Teil 1).



Features Common to All Models

- Mount to DIN Rail.
- Complies with SEMI F47-0200 (200-VAC input).
- RoHS-compliant.

Model Number Structure

Model Number Legend

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

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1 2 3 4 5 6

1. Power Ratings

015: 15 W
 030: 30 W
 060: 60 W
 090: 90 W
 120: 120 W
 180: 180 W
 240: 240 W
 480: 480 W

2. Output voltage

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

3. Indication monitor

None: Without indication monitor (standard model)
 A: With indication monitor (maintenance forecast monitor)
 B: With indication monitor (total run time monitor)

4. Alarm output

None: Sinking *
 P: Sourcing

Note: No alarm output possible with 60-W models.

* Both sinking and sourcing outputs are available for 480-W models.

5. UL Class 2 Standards

None: Does not conform. *
 S: Conforms.

* 15-W, 30-W, and 60-W models conform to Class 2 standards.

6. Terminal Block Form

None: Screw terminal block
 F: Screwless terminal block

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	Output current	Model number (screw terminal block)	Model number (screwless terminal block)
15 W	100 to 240 VAC	5 V	2.0 A	S8VS-01505 *1	---
		12 V	1.2 A	S8VS-01512	
		24 V	0.65 A	S8VS-01524	
30 W		5 V	4.0 A	S8VS-03005 *2	
		12 V	2.5 A	S8VS-03012	
		24 V	1.3 A	S8VS-03024	
60 W		24 V	2.5 A	S8VS-06024	S8VS-06024-F
90 W			3.75 A	S8VS-09024	S8VS-09024-F
				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			20 A Peak current 30 A (200 VAC)	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.

Models with Indication Monitor (Maintenance Forecast Monitor)

Power ratings	Input voltage	Output voltage	Output current	Alarm output	Model number (screw terminal block)	Model number (screwless terminal block)
60 W	100 to 240 VAC	24 V	2.5 A	---	S8VS-06024A	---
90 W			3.75 A	Sinking	S8VS-09024A	
				Sourcing	S8VS-09024AP	
120 W			5 A	Sinking	S8VS-12024A	
				Sourcing	S8VS-12024AP	
180 W			7.5 A	Sinking	S8VS-18024A	
				Sourcing	S8VS-18024AP	
240 W			10 A	Sinking	S8VS-24024A	
				Sourcing	S8VS-24024AP	
480 W			20 A Peak current 30 A (200 VAC)	Sinking/ sourcing	S8VS-48024A	S8VS-48024A-F

Models with Indication Monitor (Total Run Time Monitor)

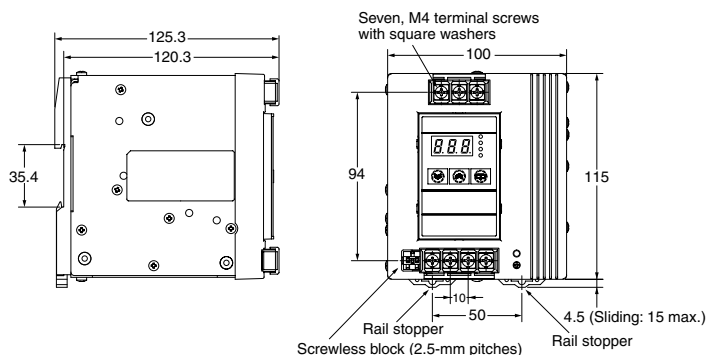
Power ratings	Input voltage	Output voltage	Output current	Alarm output	Model number (screw terminal block)	Model number (screwless terminal block)
60 W	100 to 240 VAC	24 V	2.5 A	---	S8VS-06024B	---
90 W			3.75 A	Sinking	S8VS-09024B	
				Sourcing	S8VS-09024BP	
120 W			5 A	Sinking	S8VS-12024B	
				Sourcing	S8VS-12024BP	
180 W			7.5 A	Sinking	S8VS-18024B	
				Sourcing	S8VS-18024BP	
240 W			10 A	Sinking	S8VS-24024B	
				Sourcing	S8VS-24024BP	
480 W			20 A Peak current 30 A (200 VAC)	Sinking/ sourcing	S8VS-48024B	S8VS-48024B-F

Note: Refer to pages 27 to 28 for the options that available.

Power ratings			240 W			480 W			
Item	Type		Standard	Maintenance forecast monitor	Total run time monitor	Standard	Maintenance forecast monitor	Total run time monitor	
Efficiency (typical)			80% min.			83% min.			
Input	Voltage *1		100 to 240 VAC (85 to 264 VAC)						
	Frequency *1		50/60 Hz (47 to 63 Hz)						
	Current	100-V input	3.8 A max.				7.4 A max.		
		200-V input	2.0 A max.				3.9 A max.		
	Power factor		0.95 min.						
	Harmonic current emissions		Conforms to EN61000-3-2						
	Leakage current	100-V input	0.5 mA max.						
		200-V input	1.0 mA max.						
	Inrush current *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)						
Output	Voltage adjustment range *3		Models with indication monitor: ±10% (with V.ADJ) Standard models: −10% to 15% (with V.ADJ)				−10% to 15% (with V.ADJ)		
	Ripple		2.0% (p-p) max. (at rated input/output voltage)						
	Input variation influence		0.5% max. (at 85- to 264-VAC input, 100% load)						
	Load variation influence (rated input voltage)		1.5% max. (with rated input, 0 to 100% load)						
	Temperature variation influence		0.05%/°C max.						
	Startup time *2		1,000 ms max. (at rated input/output voltage)						
	Hold time *2		20 ms min. (at rated input/output voltage)						
	Additional functions	Overload protection *2		105% to 160% of rated load current, voltage drop, automatic reset					
Overvoltage protection *2, *4		Yes							
Output voltage indication *5		No	Yes (selectable) *6			No	Yes (selectable) *6		
Output current indication *5		No	Yes (selectable) *7			No	Yes (selectable) *7		
Peak-hold current indication *5		No	Yes (selectable) *8			No	Yes (selectable) *8		
Maintenance forecast monitor indication *5		No	Yes (selectable)	No		Yes (selectable)		No	
Maintenance forecast monitor output		No	Yes (transistor output), 30 VDC max., 50 mA max. *9			Yes (transistor output), 30 VDC max., 50 mA max.		No	
Total run time monitor indication *5		No			Yes (selectable)	No		Yes (selectable)	
Total run time monitor output *5		No			Yes (transistor output), 30 VDC max., 50 mA max. *9		Yes (transistor output), 30 VDC max., 50 mA max. *9		
Undervoltage alarm indication *5		No	Yes (selectable)			No	Yes (selectable)		
Undervoltage alarm output terminals		No	Yes (transistor output), 30 VDC max., 50 mA max. *9			No	Yes (transistor output), 30 VDC max., 50 mA max. *9		
Parallel operation		No							
Series operation		Yes for up to 2 Power Supplies (with external diode)							
Other		Operating ambient temperature		Refer to the derating curve in <i>Engineering Data (60-W, 90-W, 120-W, 180-W, 240-W, and 480-W Models)</i> . (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/alarm 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/ alarm outputs and PE terminals; detection current for standard 240-W and 480-W models: 30 mA, detection current for 240-W models with indication monitor: 20 mA) 500 VAC for 1 min. (between all outputs and alarm outputs; detection current: 20 mA)						
	Insulation resistance		100 MΩ min. (between all outputs/ alarm 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 10 to 150 Hz, 0.35-mm single amplitude (5 G max.) for 80 min each in X, Y, and Z directions: 240 W 10 to 150 Hz, 0.35-mm single amplitude (3 G max.) for 80 min each in X, Y, and Z directions: 480 W						
	Shock resistance		150 m/s², 3 times each in ±X, ±Y, and ±Z directions						
	Output indicator		Yes (color: green)						
	EMI	Conducted Emissions	Models with indication monitor: Conforms to EN61204-3 EN55011 Class A and based on FCC Class A, Conforms to EN61204-3 EN55011 Class B *11 Standard models: Conforms to EN61204-3 EN55011 Group 1 Class B and based on FCC Class A				Conforms to EN61204-3 EN55011 Class A and based on FCC Class A Conforms to EN61204-3 EN55011 Class B *11		
		Radiated Emissions	Models with indication monitor: Conforms to EN61204-3 EN55011 Class A, Conforms to EN61204-3 EN55011 Class B *11 Standard models: Conforms to EN61204-3 EN55011 Group 1 Class B				Conforms to EN61204-3 EN55011 Class A Conforms to EN61204-3 EN55011 Class B *11		
	EMS		Conforms to EN61204-3 high severity levels						
	Approved standards		UL: UL508 (Listing), UL60950-1 cUL for 240-W models with indication monitor: CSA C22.2 No.14, cUL for 240-W standard models and 480-W models: CSA C22.2 No.107.1, cUR: CSA No. 60950-1, EN/VDE: EN50178 (=VDE0160), EN60950-1 (SELV) (=VDE0805 Teil 1) According to VDE0106/P100, IP20 (except terminal block) KOSHA S Mark *10						
	SEMI		F47-0200 (200-VAC input)						
	Weight		1,150 g max.				1,700 g max.		

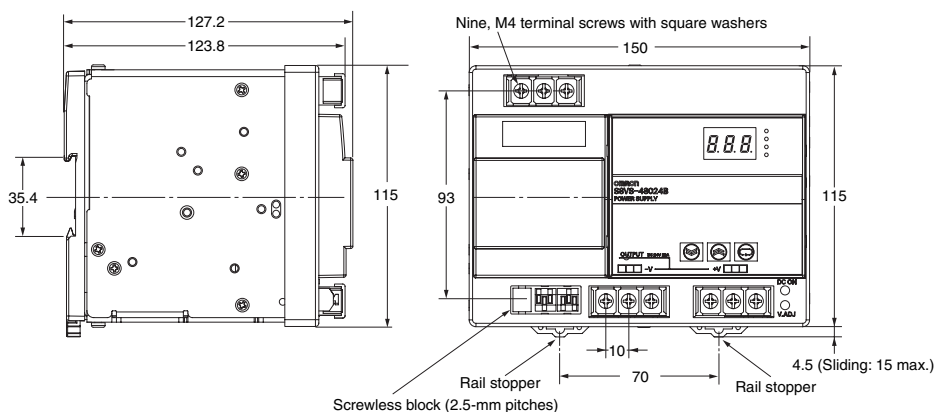
Note: Refer to page 5 for notes 1 to 11.

S8VS-24024 (240 W)
S8VS-24024A (240 W)
S8VS-24024B (240 W)



Note: The illustration shows the S8VS-24024A model.

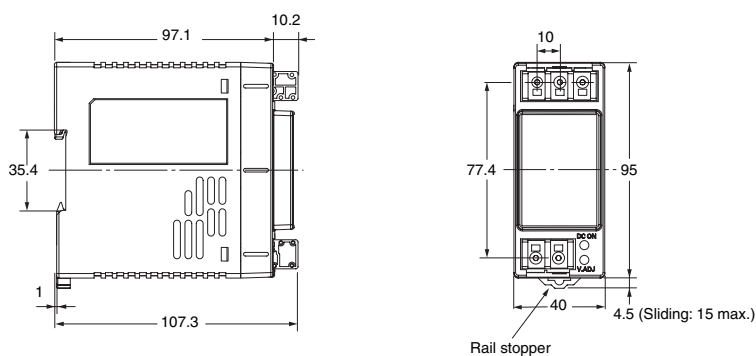
S8VS-48024 (480 W)
S8VS-48024A (480 W)
S8VS-48024B (480 W)



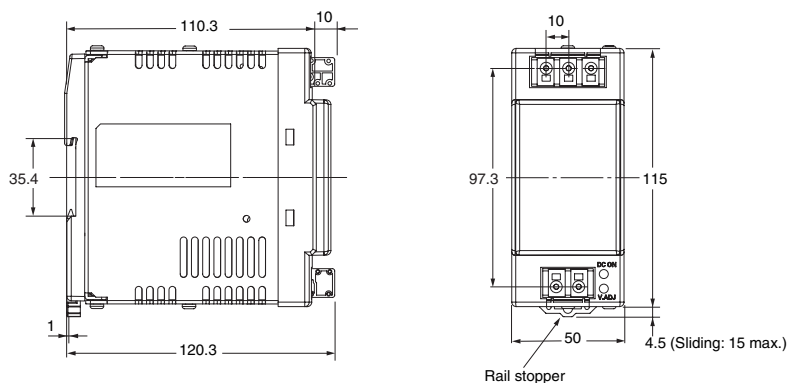
Note: The illustration shows the S8VS-48024A model.

Power Supplies with Screwless Terminal Blocks

S8VS-06024-F (60 W)



S8VS-09024-F (90 W)
S8VS-09024S-F (90 W)
S8VS-12024-F (120 W)



Note: The illustration shows the S8VS-12024-F model.