

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	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 (200 VAC)	---	S8VS-48024

*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	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 (200 VAC)	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	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 (200 VAC)	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 24 to 25 for the options that available.

Specifications

Ratings/Characteristics

Item		Power ratings	15 W			30 W		
		Output voltage	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		---					
	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 <i>Engineering Data</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; 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/s ² , 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 Listed: UL508 (Listing, Class2 Output: Per 1310) UL UR: UL60950-1 (Recognition) cUL: CSA C22.2 No.107.1 (Class2 Output: Per CSA C22.2 No.223) cUR: CSA C22.2 No.60950-1 EN/VDE: EN50178 (=VDE0160), EN60950-1 (=VDE0805 Teil1)					
	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 18 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).