

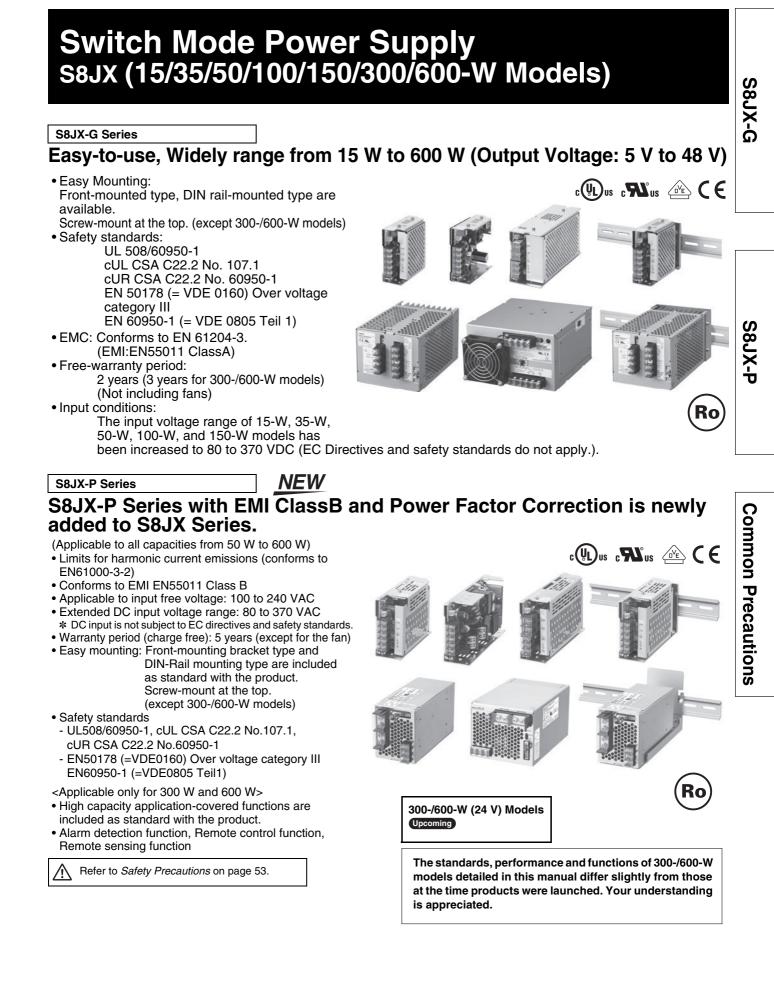


## Automatización Eléctrica

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**New Product** 

# OMRON



S8JX-P

### **Model Number Structure**

#### Model Number Legend Note: Not all combinations are possible. Refer to List of Models in Ordering Information on page 3. 15-/35-/50-/100-/150-W Models S8JX-G 1 2 3 4 3. Configuration (15/35/50/100/150 W model) 1. Power Ratings 015: 15 W None: Open-frame 035: 35 W C: Covered 050: 50 W 4. Configuration/mounting 100: 100 W None: Front-mounting 150: 150 W D: DIN Rail-mounting 2. Output Voltage 05: 5 V 12: 12 V 15: 15 V 24: 24 V 48: 48 V 300-/600-W Models S8JX-G 1 2 3 1. Power Ratings 2. Output Voltage 300: 300 W 05: 5V 600: 600 W 12: 12 V 24: 24 V 48: 48 V 3. Configuration/mounting (covered type) C: Front-mounting CD: DIN Rail-mounting

Note: Estimates can be provided for coatings and other specifications that are not given in the datasheet. Ask your OMRON representative for details.

## **Ordering Information**

### **List of Models**

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

Conf	iguration	Input voltage	Power ratings	Output voltage (VDC)	Output current	Model
				5 V	3 A	S8JX-G01505
				12 V	1.3 A	S8JX-G01512
			15 W	15 V	1 A	S8JX-G01515
				24 V	0.65 A	S8JX-G01524
				48 V	0.35 A	S8JX-G01548
				5 V	7 A	S8JX-G03505
				12 V	3 A	S8JX-G03512
			35 W	15 V	2.4 A	S8JX-G03515
				24 V	1.5 A	S8JX-G03524
				48 V	0.75 A	S8JX-G03548
	<b>F</b> 1 1 1 1 1			5 V	10 A	S8JX-G05005
	Front-mounting *1		50.14/	12 V	4.2 A	S8JX-G05012
			50 W	24 V	2.1 A	S8JX-G05024
				48 V	1.1 A	S8JX-G05048
				5 V	20 A	S8JX-G10005
			100 W	12 V	8.5 A	S8JX-G10012
		100 to 240 VAC (free) (80 to 370 VDC <b>*</b> 3) S8JX-G15005⊡: Switchable between 100 to 120 VAC and		24 V	4.5 A	S8JX-G10024
				48 V	2.1 A	S8JX-G10048
			150 W	5 V	30 A	S8JX-G15005
				12 V	13 A	S8JX-G15012
				24 V	6.5 A	S8JX-G15024
-frame Power				48 V	3.3 A	S8JX-G15048
lies			between         5 V           VAC and         12 V           VAC. (DC         12 V	5 V	3 A	S8JX-G01505D
				12 V	1.3 A	S8JX-G01512D
		power cannot be		15 V	1 A	S8JX-G01515D
		input.)		24 V	0.65 A	S8JX-G01524D
				48 V	0.35 A	S8JX-G01548D
				7 A	S8JX-G03505D	
				3 A	S8JX-G03512D	
			35 W	15 V 2.4 A		S8JX-G03515D
				24 V	1.5 A	S8JX-G03524D
				48 V	0.75 A	S8JX-G03548D
				5 V	10 A	S8JX-G05005D
	DIN Rail-mounting *2			12 V	4.2 A	S8JX-G05012D
			50 W	24 V	2.1 A	S8JX-G05024D
				48 V	1.1 A	S8JX-G05048D
				5 V	20 A	S8JX-G10005D
				12 V	8.5 A	S8JX-G10012D
			100 W	24 V	4.5 A	S8JX-G10024D
				48 V	2.1 A	S8JX-G10048D
				5 V	30 A	S8JX-G15005D
				12 V	13 A	S8JX-G15012D
			150 W	24 V	6.5 A	S8JX-G15024D
				48 V	3.3 A	S8JX-G15024D

\*1. The front-mounting bracket is included as standard with the product.
\*2. A front-mounting bracket is not included with the product.
\*3. The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).

	Confi	iguration	Input voltage	Power ratings	Output voltage (VDC)	Output current	Model
				<b>y</b>	5 V	3 A	S8JX-G01505C
					12 V	1.3 A	S8JX-G01512C
				15 W	15 V	1 A	S8JX-G01515C
				-	24 V	0.65 A	S8JX-G01524C
					48 V	0.35 A	S8JX-G01548C
					5 V	7 A	S8JX-G03505C
					12 V	3 A	S8JX-G03512C
				35 W	15 V	2.4 A	S8JX-G03515C
				00 11	24 V	1.5 A	S8JX-G03524C
					48 V	0.75 A	S8JX-G03548C
					-48 V 5 V	10 A	S8JX-G05005C
		Front-mounting *1			12 V	4.2 A	S8JX-G05005C
				50 W	24 V	2.1 A	S8JX-G05012C
					48 V	1.1 A	
							S8JX-G05048C
					5 V	20 A	S8JX-G10005C
				100 W	12 V	8.5 A	S8JX-G10012C
				-	24 V	4.5 A	S8JX-G10024C
					48 V	2.1 A	S8JX-G10048C
			100 to 240 VAC		5 V	30 A	S8JX-G15005C
			(free)	150 W	12 V	13 A	S8JX-G15012C
			(80 to 370 VDC *3)	130 W	24 V	6.5 A	S8JX-G15024C
			S8JX-G15005		48 V	3.3 A	S8JX-G15048C
			Switchable between 100 to 120 VAC and		5 V	3 A	S8JX-G01505CD
			200 to 240 VAC. (DC power cannot be input.)		12 V	1.3 A	S8JX-G01512CD
				15 W	15 V	1 A	S8JX-G01515CD
	Covered Power Supplies				24 V	0.65 A	S8JX-G01524CD
					48 V	0.35 A	S8JX-G01548CD
		Power DIN Rail-mounting *2		35 W 50 W	5 V	7 A	S8JX-G03505CD
					12 V	3 A	S8JX-G03512CD
					15 V	2.4 A	S8JX-G03515CD
					24 V	1.5 A	S8JX-G03524CD
					48 V	0.75 A	S8JX-G03548CD
					5 V	10 A	S8JX-G05005CD
					12 V	4.2 A	S8JX-G05012CD
					24 V	2.1 A	S8JX-G05024CD
					48 V	1.1 A	S8JX-G05048CD
				100 W	5 V	20 A	S8JX-G10005CD
					12 V	8.5 A	S8JX-G10012CD
					24 V	4.5 A	S8JX-G10024CD
					48 V	2.1 A	S8JX-G10024CD
					-48 V 5 V	30 A	S8JX-G15005CD
					12 V	13 A	S8JX-G15005CD S8JX-G15012CD
				150 W	24 V	6.5 A	S8JX-G15012CD S8JX-G15024CD
							S8JX-G15024CD S8JX-G15048CD
					48 V 5 V	3.3 A 60 A	S8JX-G15048CD S8JX-G30005C
				300 W	12 V	27 A	S8JX-G30012C
					24 V	14A	S8JX-G30024C
		Front-mounting *1			48 V	7A	S8JX-G30048C
		j č	100 to 120 VAC		5 V	120A	S8JX-G60005C
			200 to 240 VAC	600 W	12 V	53A	S8JX-G60012C
			(Switchable)		24 V	27A	S8JX-G60024C
					48 V	13A	S8JX-G60048C
					5 V	60 A	S8JX-G30005CD
		DIN Rail-mounting *2		300 W	12 V	27 A	S8JX-G30012CD
				000 11	24 V	14A	S8JX-G30024CD
		1	1		48 V	7A	S8JX-G30048CD

\*1. The front-mounting bracket is included as standard with the product.
\*2. A front-mounting bracket is not included with the product.
\*3. The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).

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### **Ratings, Characteristics, and Functions**

		Input specification	100 to 24	10 V input	
Item		Power ratings *1	15 W	35 W	
Efficiency			68% min.	73% min.	
	Vallana di O		100 to 240 VAC (allowable range: 85 to 26	4 VAC)	
	Voltage *2		80 to 370 VDC <b>*9</b>		
	Frequency *2		50/60 Hz (47 to 450 Hz)		
	0	100 V input	0.4 A max.	1 A max.	
	Current *3	200 V input	0.25 A max.	0.6 A max.	
1	Power factor	•	-		
Input	Harmonic current emis	sions	-		
		100 V input	0.5 mA max.		
	Leakage current *3	200 V input	1 mA max.		
	Inrush current (for a	100 V input	20 A max.		
	cold start at 25°C) *3	200 V input	40 A max.		
	Noise filter	1	Yes		
	Voltage adjustment rar	nge *5	-10% to 15% (with V. ADJ) (48-V models:	±10%)	
	Ripple *3		2% (p-p) max.		
	Input variation influence	e	0.4% max. with AC input voltage		
Output *4	Load variation influence		0.8% max. (0 to 100% load, rated input volt	tage)	
	Temperature variation	influence	0.05%/°C max. (at rated input and output)		
	Startup time		500 ms max. (up to 90% of output voltage a	at rated input and output)	
	Hold time *3		20 ms min.	· · · ·	
	Overload protection *6	6	105% to 175% of rated load current, voltage drop, intermittent, automatic reset		
	Overvoltage protection *7		Yes		
Additional	Overheat protection		No		
functions	Parallel operation		No (However, backup operation is possible	: external diodes required )	
	Series operation		Yes (For up to two Power Supplies; externa		
	Protective circuit opera	ation indicator	No	. ,	
	Ambient operating tem		Refer to the derating curve in <i>Engineering Data</i> on page 16 (with no icing or condensation).		
	Storage temperature		-25 to 65°C (with no icing or condensation)		
	Ambient operating hun	nidity	25% to 85% (Storage humidity: 25% to 90%	(6)	
	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 $M\Omega$ 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 <sup>2</sup> , 3 times each in $\pm X$ , $\pm Y$ , $\pm Z$ directions		
	Output indicator		Yes (Color: Green)		
	<b>EN1</b>	Conducted Emissions	Conforms to EN 55011 Group 1 Class A and based on FCC Class A <b>*9</b>		
	EMI	Radiated Emissions	Conforms to EN 55011 Group 1 Class A *		
Other		Electrostatic Discharge	Conforms to EN61000-4-2		
		Radiated Electromagnetic Field	Conforms to EN61000-4-3		
		Electrical Fast Transient/Burst	Conforms to EN61000-4-4		
	EMS	Surge	Conforms to EN61000-4-5		
		Conducted Disturbance	Conforms to EN61000-4-6		
		Voltage Dips/Short Interruptions	Conforms to EN61000-4-11		
			UL Listed: UL 508 (Listing), UL UR: UL 609	950-1 (Recognition)	
	Approved standards *	9	cUL Listed: CSA C22.2 No.107.1 cUR: CSA C22.2 No. 60950-1		
			EN/VDE: EN50178 (= VDE 0160) Over voltag (Terminal block: Based on DIN 50274 (VDE	e category III, EN 60950-1 (= VDE 0805 Teil 1) E 0660-514))	
	SEMI		SEMI F47-0200 (200-VAC input)		
	Weight *8		250 g max.		

\*1. When a load is connected that has a built-in DC-DC converter, the overload protection may operate at startup and the Power Supply may not start. Refer to Overload Protection on page 19.

\*2. 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 \*2. Do not use an inverter output for the Power Supply. Inverters with a temperature of the Power Supply may result in ignition or burning.
\*3. Rated input voltage: 100 or 200 VAC at 100% load.
\*4. Output characteristics: Specified at power supply output terminals.

\*5. If the output voltage adjuster (V. ADJ) is turned, the voltage will increase by more than the allowable voltage range. When adjusting the output voltage, confirm the actual output voltage from the Power Supply and be sure that load is not damaged.

\*6. For details, refer to Overload Protection on page 19.

\*7. To reset the protection, turn OFF the input power for seven minutes or longer and then turn it back ON.

\*8. The weight indicated is for Front-mounting, Open-frame Power Supply.

\*9. The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).

		Input specification	on 100 to 240 V input			
Item		Power ratings *1	50 W	100 W		
		5-V Models	76% min.	76% min.		
<b>Efficiency</b>		12-V Models	81% min.	81% min.		
Efficiency		24-V Models	83% min.	83% min.		
		48-V Models	82% min. 83% min.			
	Valtara #2		100 to 240 VAC (allowable range: 85 to 264 VAC)			
	Voltage *2		80 to 370 VDC <b>*9</b>			
	Frequency *2		50/60 Hz (47 to 450 Hz)			
	Current *3	100 V input	1.4 A max.	2.5 A max.		
	Current 43	200 V input	0.8 A max.	1.5 A max.		
Innut	Power factor					
Input	Harmonic current emis	ssions				
	Leakage current *3	100 V input	0.5 mA max.			
	Leakage current ~5	200 V input	1 mA max.			
	Inrush current (for a	100 V input	20 A max.			
	cold start at 25°C) *3	200 V input	40 A max.			
	Noise filter		Yes			
	Voltage adjustment rar	nge <del>*</del> 5	-10% to 15% (with V. ADJ) (48-V models:	±10%)		
	Ripple *3		2% (p-p) max.			
	Input variation influence	ce	0.4% max. (with AC input voltage)			
Output *4	Load variation influence	ce in the second se	0.8% max. (0 to 100% load, rated input vo	ltage)		
	Temperature variation	influence	0.05%/°C max. (at rated input and output)			
	Startup time		500 ms max. (up to 90% of output voltage at rated input and output)			
	Hold time *3		20 ms min.			
	Overload protection *6	6	105% to 175% of rated load current, voltage drop, intermittent, automatic reset			
	Overvoltage protection	ו *7	Yes			
	Overheat protection		No			
functions	Parallel operation		No (However, backup operation is possible	e; external diodes required.)		
	Series operation		Yes (For up to two Power Supplies; extern	nal diodes required.)		
	Protective circuit operation	ation indicator	No			
	Ambient operating tem	perature	Refer to the derating curve in <i>Engineering Data</i> on page 16 (with no icing or condensation).			
	Storage temperature		$-25$ to $65^{\circ}C$ (with no icing or condensation	n)		
	Ambient operating hur	nidity	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 $M\Omega$ min. (between all outputs and all inputs/PE terminals) at 500 VDC			
	Vibration resistance		10 to 55 Hz, 0.375-mm single amplitude for	, ,		
	Shock resistance		150 m/s <sup>2</sup> , 3 times each in $\pm X$ , $\pm Y$ , $\pm Z$ directions			
	Output indicator		Yes (Color: Green)			
	ЕМІ	Conducted Emissions	Conforms to EN 55011 Group 1 Class A a			
Other		Radiated Emissions	Conforms to EN 55011 Group 1 Class A *	9		
other		Electrostatic Discharge	Conforms to EN61000-4-2			
		Radiated Electromagnetic Field	Conforms to EN61000-4-3			
	EMS	Electrical Fast Transient/Burst	Conforms to EN61000-4-4			
		Surge	Conforms to EN61000-4-5			
		Conducted Disturbance	Conforms to EN61000-4-6			
		Voltage Dips/Short Interruptions	Conforms to EN61000-4-11			
			UL Listed: UL 508 (Listing), UL UR: UL 60	950-1 (Recognition)		
	Approved standards *	9	cUL Listed: CSA C22.2 No.107.1 cUR: CSA C22.2 No. 60950-1			
			EN/VDE: EN50178 (= VDE 0160) Over volta (Terminal block: Based on DIN 50274 (VD	ge category III, EN 60950-1 (= VDE 0805 Teil 1) E 0660-514))		
	SEMI		SEMI F47-0200 (200-VAC input)			
	Weight *8		300 g max.	550 g max.		
A When	The second state of the se		the overlead protection may operate a	a stant of the state of the D		

\*1. When a load is connected that has a built-in DC-DC converter, the overload protection may operate at startup and the Power Supply may not start. Refer to Overload Protection on page 19.

**\*2.** 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.

**\*3.** Rated input voltage: 100 or 200 VAC at 100% load.

**\*4.** Output characteristics: Specified at power supply output terminals.

**\*5.** If the output voltage adjuster (V. ADJ) is turned, the voltage will increase by more than the allowable voltage range. When adjusting the output voltage, confirm the actual output voltage from the Power Supply and be sure that load is not damaged.

**\*6.** For details, refer to *Overload Protection* on page 19.

\*7. To reset the protection, turn OFF the input power for seven minutes or longer and then turn it back ON.

\*8. The weight indicated is for Front-mounting, Open-frame Power Supply.

\*9. The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).

		Input specification	100/200 V switchable	100 to	o 240 V input			
tem		Power ratings *1	150 W at 5 V	150 W at 12 V	150 W at 24 or 48 V			
		5-V Models	78% min.					
		12-V Models		79% min.				
fficiency		24-V Models			86% min.			
		48-V Models			85% min.			
			Switchable between 100 to					
			120 VAC (allowable range:	100 10 2 10 1710 (allottab				
	Voltage *2		85 to 132 VAC) and 200 to	80 to 370 VDC <b>*9</b>				
			240 VAC (allowable range:	80 10 370 VDC <b>*3</b>				
-	F		170 to 264 VAC).					
-	Frequency *2	400.14	50/60 Hz (47 to 450 Hz)	0.0.4	254			
	Current *3	100 V input	3.5 A max.	3.6 A max.	3.5 A max.			
nput		200 V input	2.1 A max.	2.2 A max.	2.1 A max.			
-	Power factor							
	Harmonic current emis	armonic current emissions						
	Leakage current *3	100 V input	0.5 mA max.					
	Lounage ourrent to	200 V input	1 mA max.					
	Inrush current (for a	100 V input	20 A max.					
	cold start at 25°C) *3	200 V input	40 A max.					
	Noise filter		Yes					
	Voltage adjustment rar	nge *5	-10% to 15% (with V. ADJ)	(48-V models: ±10%)				
	Ripple *3		2% (p-p) max.					
F	Input variation influence	ce	0.4% max. (with AC input vo	ltage)				
Dutput *4	Load variation influence	e	0.8% max. (0 to 100% load, rated input voltage)					
	Temperature variation	influence	0.05%/°C max. (at rated inp	ut and output)				
-	Startup time		500 ms max. (up to 90% of output voltage at rated input and output)					
	Hold time *3	old time *3		20 ms min.				
			105% to 175% of rated load					
	Overload protection *6		current, voltage drop,	105% to 175% of rated lo				
			automatic reset intermittent, automatic reset					
Additional	Overvoltage protection	ı *7	Yes					
	Overheat protection		No					
	Parallel operation		No					
+	Series operation		Yes (For up to two Power Supplies; external diodes required.)					
+	Protective circuit operation	ation indicator	No	-FF	1			
			Refer to the derating curve i	n <i>Engineering Data</i> on pag	e 16 (with no icing or			
	Ambient operating tem	iperature	condensation).	n Englineening Data en pag				
F	Storage temperature		-25 to 65°C (with no icing or	condensation)				
	Ambient operating hur	nidity	25% to 85% (Storage humid	lity: 25% to 90%)				
F			3.0 kVAC for 1 min. (between all inputs and outputs; detection current: 20 mA)					
	Dielectric strength				als; detection current: 20 mA)			
			1.0 kVAC for 1 min. (between all outputs and PE terminals; detection current: 20 mA)					
	Insulation resistance		100 M $\Omega$ 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 <sup>2</sup> , 3 times each in $\pm X$ , $\pm Y$ , $\pm Z$ directions					
F	Output indicator		Yes (Color: Green)					
-		Conducted Emissions	Conforms to EN 55011 Group 1 Class A and based on FCC Class A <b>*9</b>					
	EMI	Radiated Emissions	Conforms to EN 55011 Grou	•	-			
Other		Electrostatic Discharge	Conforms to EN61000-4-2					
		Radiated Electromagnetic Field	Conforms to EN61000-4-3					
		Electrical Fast Transient/Burst	Conforms to EN61000-4-3					
	EMS							
		Surge	Conforms to EN61000-4-5					
		Conducted Disturbance	Conforms to EN61000-4-6					
		Voltage Dips/Short Interruptions	Conforms to EN61000-4-11					
			UL Listed: UL 508 (Listing),		gnition)			
			cUL Listed: CSA C22.2 No.1					
	Approved standards *	9	cUR: CSA C22.2 No. 60950					
			EN/VDE: EN50178 (= VDE 01	60), Over voltage category I	II, EN 60950-1 (= VDE 0805 Teil 1			
	0514		(Terminal block: Based on D	1				
	SEMI			SEMI F47-0200 (200-VA				
	Weight *8		800 g max.	700 g max.	600 g max.			

\*1. When a load is connected that has a built-in DC-DC converter, the overload protection may operate at startup and the Power Supply may not start. Refer to Overload Protection on page 19.

\*2. 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.

\*3. Rated input voltage: 100 or 200 VAC at 100% load.

\*4. Output characteristics: Specified at power supply output terminals.

\*5. If the output voltage adjuster (V. ADJ) is turned, the voltage will increase by more than the allowable voltage range. When adjusting the output voltage, confirm the actual output voltage from the Power Supply and be sure that load is not damaged.

\*6. For details, refer to Overload Protection on page 19.
\*7. To reset the protection, turn OFF the input power for seven minutes or longer and then turn it back ON.

\*8. The weight indicated is for Front-mounting, Open-frame Power Supply.

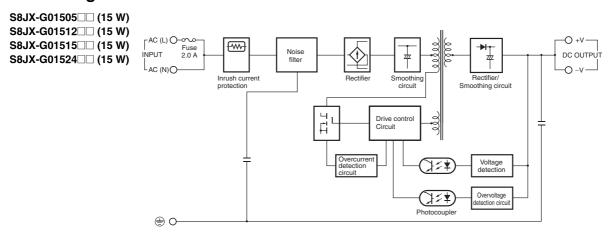
\*9. The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).

		Input specification		(Selected)		
Item		Power ratings *1	300 W	600 W		
		5V models	71% min.	72% min.		
Efficiency		12V models	75% min.	78% min.		
Efficiency		24V models	82% min.	80% min.		
		48V models	82% min.	80% min.		
	Voltage *2	1	100 to 120 VAC (allowable range: 85 to 132 VAC) 200 to 240 VAC (allowable range: 170 to 264 VAC) (Switchable)			
	Frequency *2		50/60 Hz (47 to 450 Hz)			
	Current *3	100 V input	8 A max.	16 A max.(5V, 12V, 48V) 14 A max.(24V)		
Input		200 V input	4.5 A max.	9 A max.(5V, 12V, 48V) 8 A max.(24V)		
P * *	Power factor					
	Harmonic current emis	sions	-			
	Leakage current *3	100 V input	0.5 mA max.			
	Lounago ourront vo	200 V input	1 mA max.			
	Inrush current (for a	100 V input	25 A max.	30 A max.		
	cold start at 25°C) *3	200 V input	50 A max.	60 A max.		
	Noise filter		Yes			
	Voltage adjustment rar	nge *5	-10% to 15% (with V. ADJ) (48-V models:	±10%)		
	Ripple *3	-	2.8% (p-p) max.(5V) <b>*6</b> 2% (p-p) max.(12V, 24V, 48V)	3.8% (p-p) max.(5V) <b>*6</b> 2% (p-p) max.(12V) <b>*6</b> 2% (p-p) max.(24V, 48V)		
Output *4	Input variation influence	ce	0.4% max.			
- aspart of	Load variation influence	e	0.8% max. (0 to 100% load, rated input volt	age)		
	Temperature variation	influence	0.05%/°C max.			
	Startup time		650 ms max.	500 ms max.		
	Hold time *3		20 ms min.			
	Overload protection *7		105% to 175% of rated load current, Inverted L voltage drop, the circuit will be shut OFF when the overload exceeds 5 s.(5V, 12V) *10 voltage drop, intermittent, automatic reset. (24V, 48V)	105% to 175% of rated load current, Inverte L voltage drop, the circuit will be shut OFF when the overload exceeds 5 s. *10		
Additional functions	Overvoltage protection	1 *8	Yes (5V, 12V) *10 Yes (24V, 48V) *10	Yes *10		
	Overheat protection		Yes (5V, 12V) *10 N0 (24V, 48V) *10	Yes *10		
	Parallel operation		Yes (up to 5 units)			
	Series operation		Yes (For up to two Power Supplies; external diodes required.)			
	Protective circuit opera		Yes (color: red) (5V, 12V)         Yes (color: red)           No (24V, 48V)         Yes (color: red)			
	Ambient operating tem	perature	Refer to the derating curve in Engineering Da			
	Storage temperature		-25 to 65°C (with no icing or condensation)			
	Ambient operating hur	nidity	25% to 85% (Storage humidity: 25% to 90%)			
	Dielectric strength		<ul> <li>3.0 kVAC for 1 min. (between all inputs and outputs; detection current: 25 mA)</li> <li>2.0 kVAC for 1 min. (between all inputs and PE terminals; detection current: 25 mA)</li> <li>1.0 kVAC for 1 min. (between all outputs and PE terminals; detection current: 25 mA)</li> </ul>			
	Insulation resistance		100 $\text{M}\Omega$ 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 <sup>2</sup> , 3 times each in $\pm X$ , $\pm Y$ , $\pm Z$ directions			
	Output indicator		Yes (Color: Green)			
	EMI	Conducted Emissions *3	Conforms to EN 55011 Group 1 Class A an	d based on FCC Class A *11		
0.11	EMI	Radiated Emissions	Conforms to EN 55011 Group 1 Class A *1	1 *12		
Other		Electrostatic Discharge	Conforms to EN61000-4-2			
		Radiated Electromagnetic Field	Conforms to EN61000-4-3			
		Electrical Fast Transient/Burst	Conforms to EN61000-4-4			
	EMS	Surge	Conforms to EN61000-4-5			
		Conducted Disturbance	Conforms to EN61000-4-5 Conforms to EN61000-4-6			
		Voltage Dips/Short Interruptions	Conforms to EN61000-4-11			
		voltage Diparonoi t interruptions	UL UR: UL 508 (Recognition), UL 60950-1	(Becognition)		
	Approved standards *	13	cUR: CSA C22.2 No. 60950-1 EN/VDE: EN50178 (= VDE 0160), Over voltag (Terminal block: Based on DIN 50274 (VDE			
			1,800 g max. (5V, 12V)			
	Weight *9		1,600 g max. (24V, 48V)	2,500 g max.		

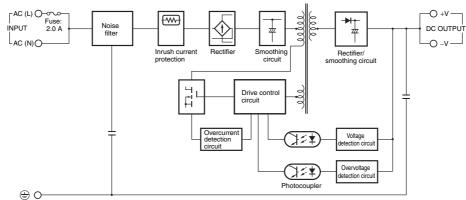
- \*1. When a load is connected that has a built-in DC-DC converter, the overload protection may operate at startup and the Power Supply may not start. Refer to Overload Protection on page 19.
- **\*2.** Do not use an Inverter output for the Power Supply. Inverters with an output frequency of 50/60 Hz are available, but the rise in the internal temperature of the Power Supply may result in ignition or burning.
- \*3. Rated input voltage: 100 or 200 VAC at 100% load.
- **\*4.** Output characteristics: Specified at power supply output terminals.
- **\*5.** If the output voltage adjuster (V. ADJ) is turned, the voltage will increase by more than the allowable voltage range. When adjusting the output voltage, confirm the actual output voltage from the Power Supply and be sure that load is not damaged.
- \*6. Measurement methods are based on JEITA standard RC-9131A. Refer to Ripple Noise Voltage on page 55.
- \*7. For details, refer to Overload Protection on page 19.
- **\*8.** To reset the protection, turn OFF the input power for three minutes or longer and then turn it back ON.
- **\*9.** The weight indicated is for Front-mounting Power Supply.
- **\*10.**The protection-ON alarm indicator will light as soon as the output is interrupted. For resetting, turn OFF the input power, leave for more than three minutes , and then turn it back ON again.
- \*11.Noise values depend on the wiring methods and other factors. Insert noise filters and cores in the input and output lines.
  - 300 W, 5 V: Two E04SR401938 (manufactured by SEIWA) on the output line.
  - 300 W, 12 V: One E04SR401938 (manufactured by SEIWA) on the output line.
  - 600 W, 5 V or 12 V: One FN2450G-16-61 (manufactured by Schaffner) on the input line.
    - One E04RC613620 (manufactured by SEIWA) on the output line.
- \*12.For the 600-W, 5-V and 12-V models, class A compliance was met with an aluminum plate placed under the Power Supply.
- \*13. The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).

### **Connections**

### **Block Diagrams**



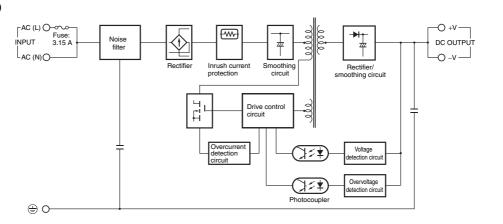
S8JX-G01548 (15 W)



S8JX-G03505 (35 W) S8JX-G03512 (35 W) Lac (r) O-محم S8JX-G03515 (35 W) Fuse 3.15 A # INPUT Noise filter S8JX-G03524 (35 W) LAC (N)O Inrush current Rectifie Smoothing protection circuit ЧЦ Drive control Circuit

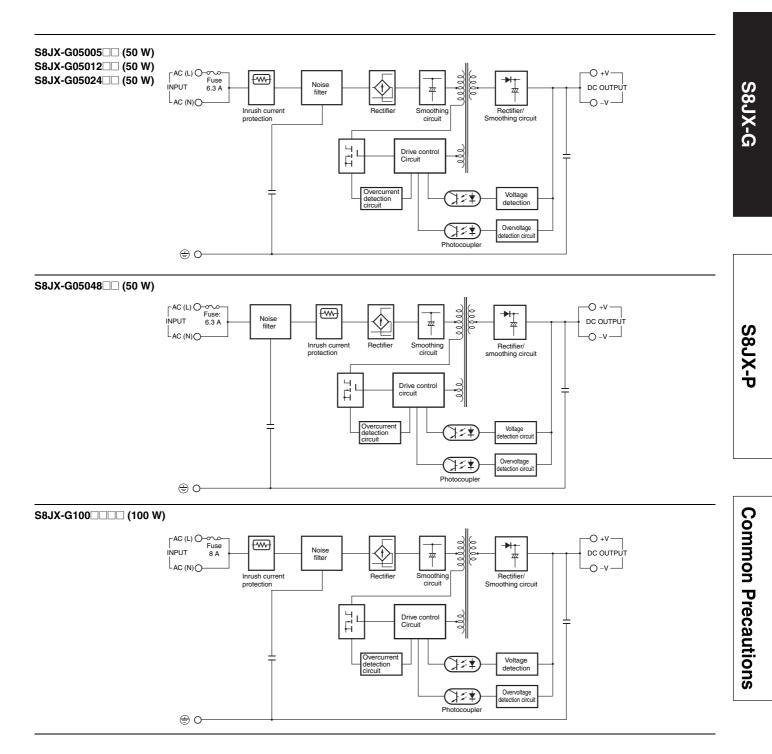
-O +V -**H** 20000 DC OUTPUT # -0 -v Rectifier/ Smoothing circuit Voltage detection ercurrer ection ≱≈¥ Overvoltage letection circu િ≠₹ Photocoupler ⊕ O-

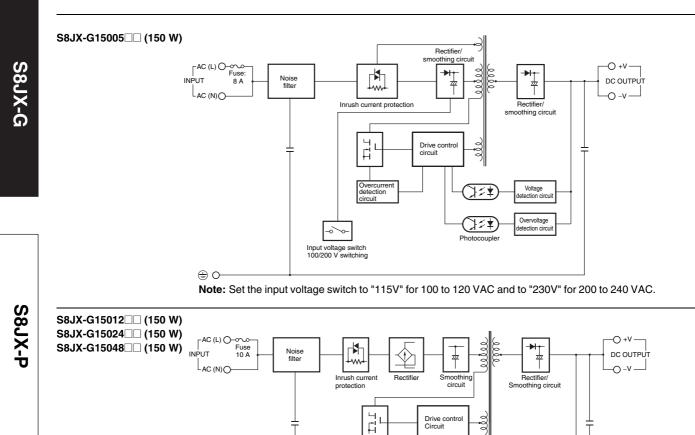
S8JX-G03548 (35 W)



S8JX-G

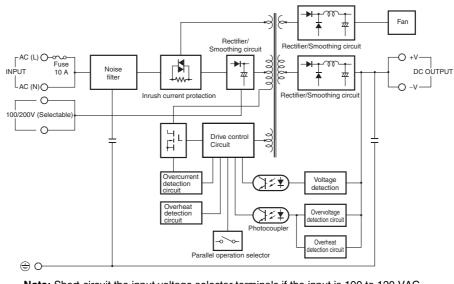
S8JX-P





S8JX-G30005 (300 W) S8JX-G30012 (300 W)

⊕ 0-



Overcurrent

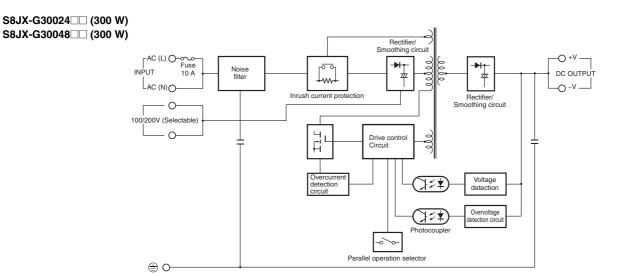
etection

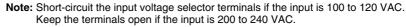
Voltage detection

Overvoltage detection circu

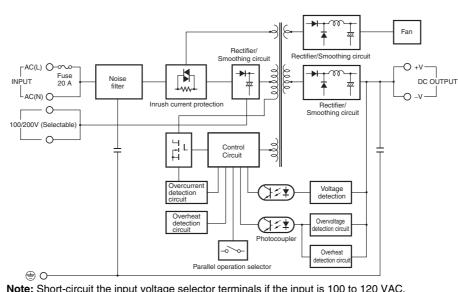
≱≈¥

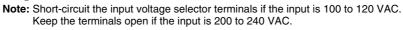
Note: Short-circuit the input voltage selector terminals if the input is 100 to 120 VAC. Keep the terminals open if the input is 200 to 240 VAC.



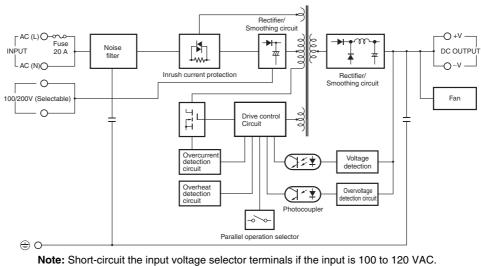


S8JX-G60005 (600 W) S8JX-G60012 (600 W) S8JX-G60048 (600 W)





#### S8JX-G60024 (600 W)

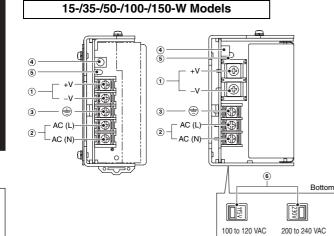


Note: Short-circuit the input voltage selector terminals if the input is 100 to 120 VAC Keep the terminals open if the input is 200 to 240 VAC.

S8JX-P

## **Construction and Nomenclature**

### Nomenclature

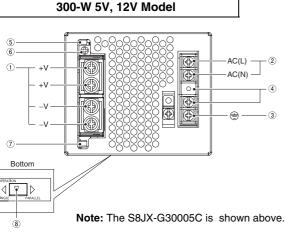


above

No.	Name	Function
1	DC Output Terminals (-V), (+V)	Connect the load lines to these terminals.
2	AC Input Terminals (L), (N)	Connect the input lines to these terminals. *1
3	Protective Earth Terminal (PE) (🚖)	Connect the ground line to these terminals. *2
4	Output Voltage Adjuster (V. ADJ)	It is possible to increase or decrease the output voltage.
5	Output Indicator (DC ON: Green)	Lights green while a direct current (DC) output is ON.
6	Input voltage switch	Switches the internal circuits according to the input voltage. "115V": 100 to 120 VAC "230V": 200 to 240 VAC

Note: The S8JX-G05024CD is shown above.

. The fuse is located on the (L) side. It is NOT user-replaceable. For a DC power input, connect the low side to the positive (+) terminal. Note: The S8JX-G15005C is shown \*2. This is the protective earth terminal specified in the safety standards. Always ground this terminal.



300-W Model No. Name Function DC Output Connect the load lines to these terminals. 1 Terminals (+V), (-V) AC Input Terminals 2 Connect the input lines to these terminals. \*1 (L), (N) Protective Earth 3 Connect the ground line to these terminals. \*2 Terminal (PE) ( 😑 Short-circuit the terminals if the input is 100 to 120 Input Voltage VAC and open the terminals if the input is 200 to 240 VAC. 4 Selector Terminals Output Indicator 5 Lights green while a direct current (DC) output is ON. (DC ON: Green) Output Voltage It is possible to increase or decrease the output 6 Adjuster (V. ADJ) voltage. Protection-ON The red indicator will be lit if the overvoltage or 7 Alarm Indicator overheat protection circuit is triggered. This indicator (ALM: Red) will also be lit when overload is detected. \*3 Set the selector to PARALLEL if the Units are in Selector of Parallel 8 Operation parallel operation.

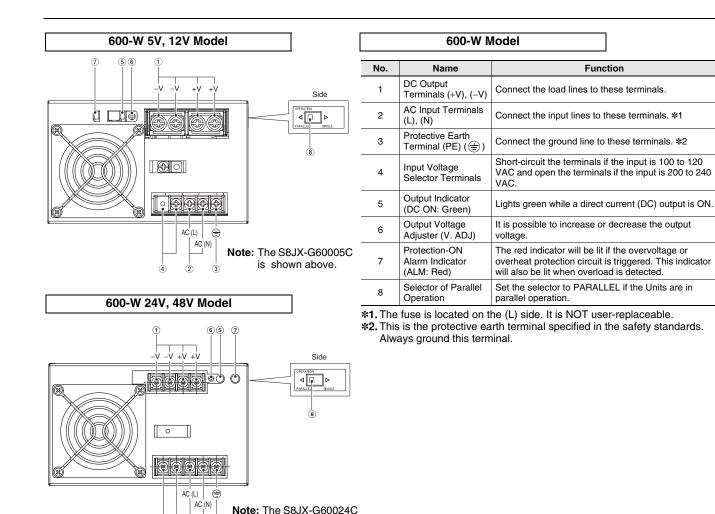
\*1. The fuse is located on the (L) side. It is NOT user-replaceable. \*2. This is the protective earth terminal specified in the safety standards. Always ground this terminal.

\*3. This is not applicable to 24-V and 48-V models.

300-W 24V, 48V Model 5 6 AC (L) 7 <u>ଅଅଅଅଅ</u> -(2) ٢ 1 . AC (N) \_ +V 4 . -V -V С ۲ - (3) Bottom 470

Note: The S8JX-G30024C is shown above.

8



is shown above.

#### **Reference Values**

4

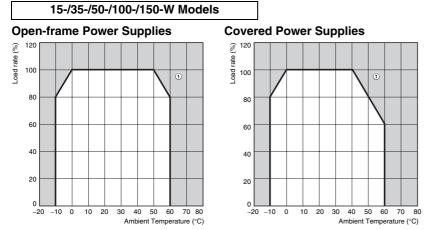
2 3

Reliability (MTBF)	Value 15 W: 300,000 hrs 35 W: 300,000 hrs 50 W: 300,000 hrs 100 W: 270,000 hrs 150 W: 240,000 hrs for 5 V and 12 V
	150 W: 250,000 hrs for 24 V and 48 V 300 W: 200,000 hrs for 5 V and 12 V 300 W: 400,000 hrs for 24 V and 48 V 600 W: 170,000 hrs
Definition	MTBF stands for Mean Time Between Failures, which is calculated according to the probability of accidental device failures, and indicates reliability of devices. Therefore, it does not necessarily represent a life of the product.
Life expectancy	10 yrs. min.
Definition	The life expectancy indicates average operating hours under the ambient temperature of 40°C and a load rate of 50%. Normally this is determined by the life expectancy of the built-in aluminum electrolytic capacitor.

15

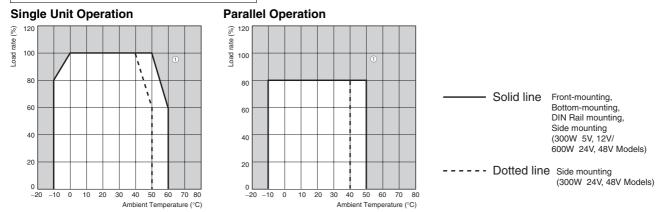
## **Engineering Data**

### **Derating Curves (Standard Mounting)**



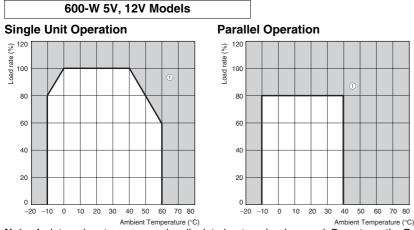
- Note: 1. Internal parts may occasionally deteriorate or be damaged. Do not use the Power Supply in areas outside the derating curve (i.e., the area shown by shading 1 in the above graph).
  - 2. If there is a derating problem, use forced air-cooling.
  - 3. For Customers Using a DC Input
    - When using an input voltage of less than 100 VDC, reduce the load calculated with the above derating curve by at least the following coefficients.
      - 35-W and 100-W (5-V or 12-V output) models: 0.8 0.85 (DC power cannot be input only to the S8JX-G15005 50-W/150-W models: 0.9
      - 15-W and 100-W (24-V or 48-V output):

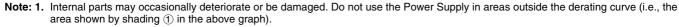




Note: 1. Internal parts may occasionally deteriorate or be damaged. Do not use the Power Supply in areas outside the derating curve (i.e., the area shown by shading (1) in the above graph).

2. If there is a derating problem, use forced air-cooling.





### Mounting

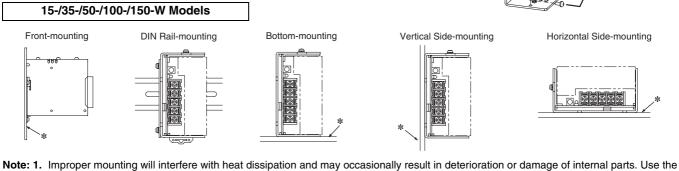
#### 15-/35-/50-/100-/150-W Models

The following three mounting methods are possible.

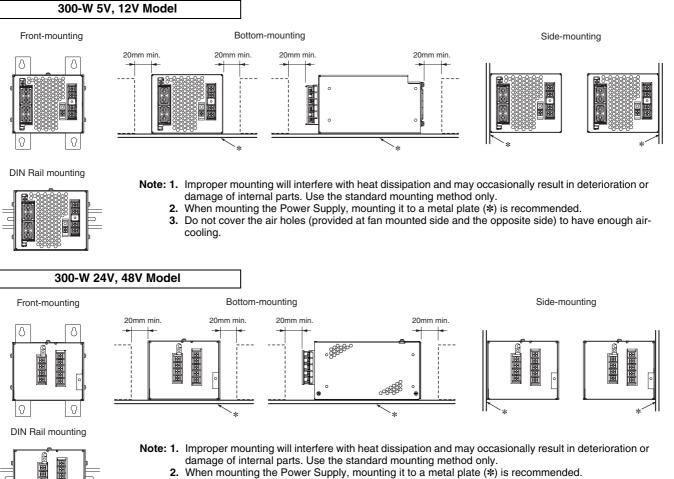
- (A). Front-mounting: Refer to Mounting Bracket Provided with Front-mounting Power Supplies (A) on page 25.
- (B). Bottom-mounting
- ©. Side-mounting

Note: Additional mounting methods are also available using DIN Rail-mounting models.

### **Standard Mounting**



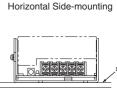
- standard mounting method only.
  - 2 When mounting the Power Supply, mounting it to a metal plate (\*) is recommended.
  - 3. Install the Power Supply so that the air flow circulates around the Power Supply, as the Power Supply is designed to radiate heat by means of natural air flow.



Install the Power Supply so that the air flow circulates around the Power Supply, as the Power Supply 3. is designed to radiate heat by means of natural air flow.



S8JX-P



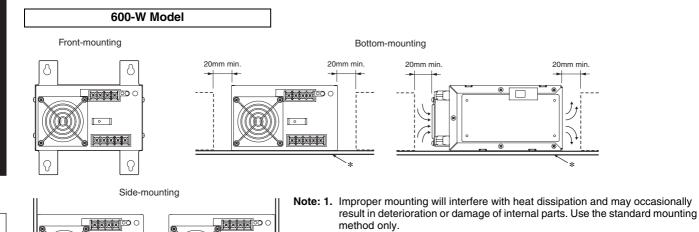
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- 2. When mounting the Power Supply, mounting it to a metal plate (\*) is recommended.
- **3.** Do not cover the air holes (provided at fan mounted side and the opposite side) to have enough air-cooling.

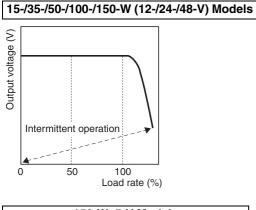
S8JX-P

### **Overload Protection**

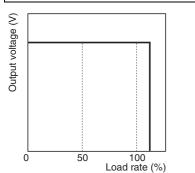
The Power Supply is provided with an overload protection function that protects the power supply from possible damage by overcurrent. When the output current rises above 105% to 175% min. of the rated current, the protection function is triggered, decreasing the output voltage. When the output current falls within the rated range, the overload protection function is automatically cleared.

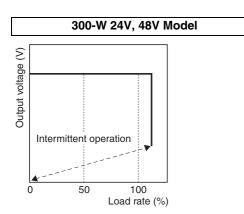
- Note: 1. When a load is connected that has a built-in DC-DC converter, the overload protection may operate at startup and the power supply may not start.
  - Internal parts may occasionally deteriorate or be damaged if a short-circuited or overcurrent state continues during operation.
     Internal parts may possibly deteriorate or be damaged if the Power Supply is used for applications with frequent inrush current or overloading at the load end. Do not use the Power Supply for such applications.

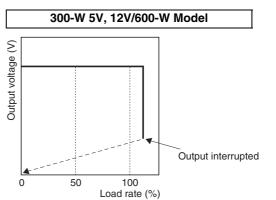
#### (Reference value)



#### 150-W, 5-V Models







If an excessive current flows for 5 s or more, the output will be turned OFF and simultaneously the protection-ON alarm indicator will be lit. To reset the S8JX, turn OFF the power, leave the S8JX for at least three minutes, and then turn it ON again.

### **Overvoltage Protection**

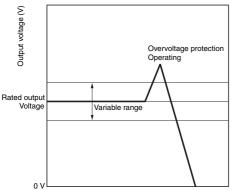
#### 15-/35-/50-/100-/150-W Models

Consider the possibility of an overvoltage and design the system so that the load will not be subjected to an excessive voltage even if the feedback circuit in the power supply fails. When an excessive voltage that is approximately 130% of the rated voltage or more is output, the output voltage is shut OFF, preventing damage to the load due to overvoltage. Reset the input power by turning it OFF for at least seven minutes and then turning it back ON again.

#### 300-/600-W Models

Consider the possibility of an overvoltage and design the system so that the load will not be subjected to an excessive voltage even if the feedback circuit in the Power Supply fails. When an excessive voltage that is approximately 120% of the rated voltage or more is output, the output voltage is shut OFF, preventing damage to the load due to overvoltage (Except 300-W 24V, 48V models ). Reset the input power by turning it OFF for at least three minute and then turning it back ON again.

#### (Reference value)



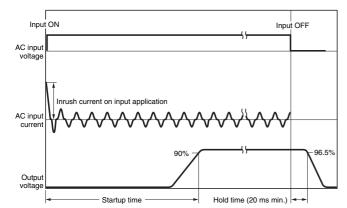
Note: Do not turn ON the power again until the cause of the overvoltage has been removed.

#### **Overheat Protection**

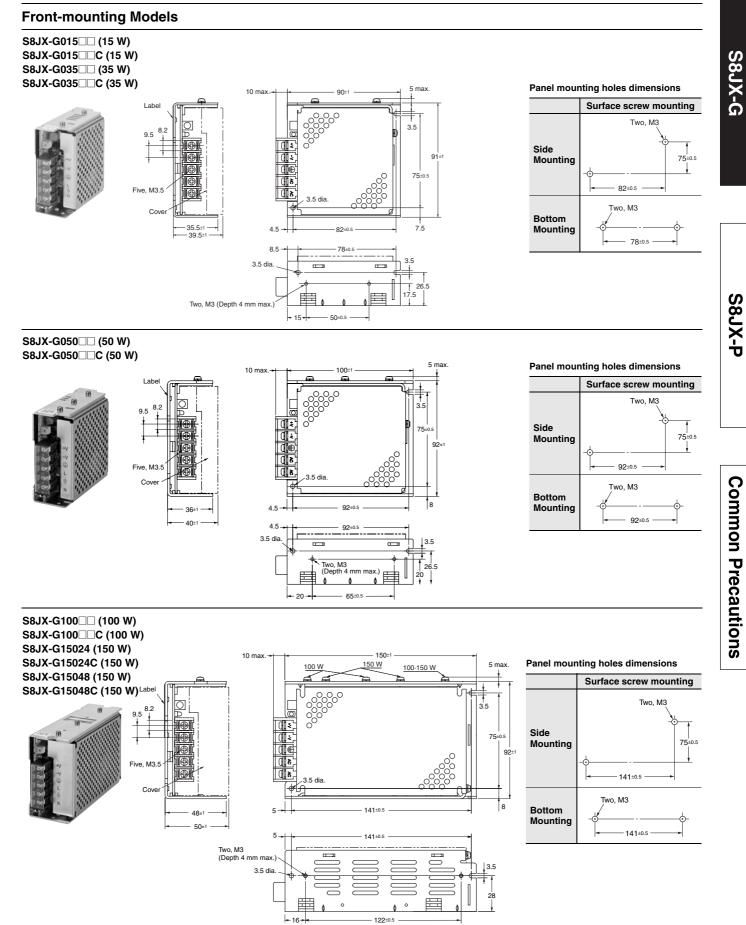
#### 300-W 5V, 12V/600-W Model

If the internal temperature rises excessively as a result of fan failure or any other reason, the overheat protection circuit will be triggered to shut OFF the output voltage and simultaneously the protection-ON alarm indicator will be lit. Reset the input power by turning it OFF for at least three minutes and then turning it back ON again.

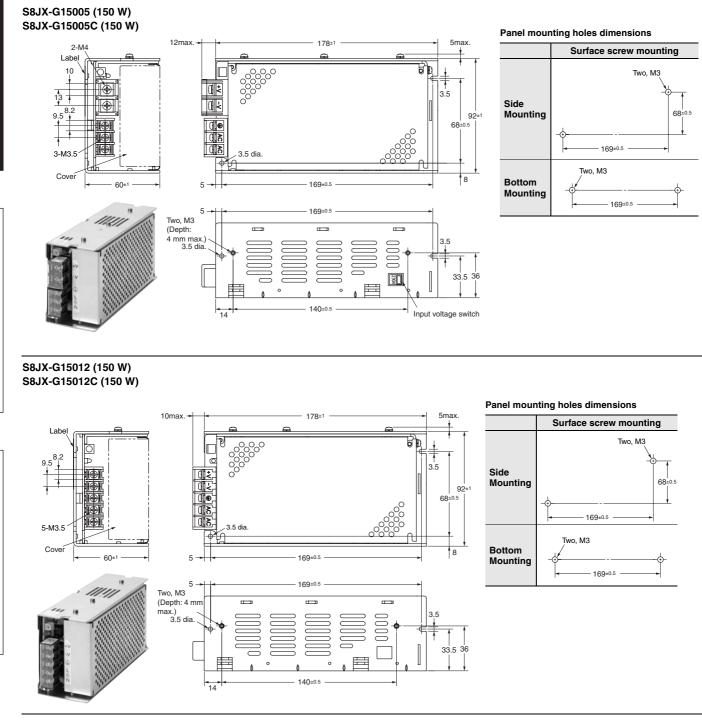
#### Inrush Current, Startup Time, Output Hold Time



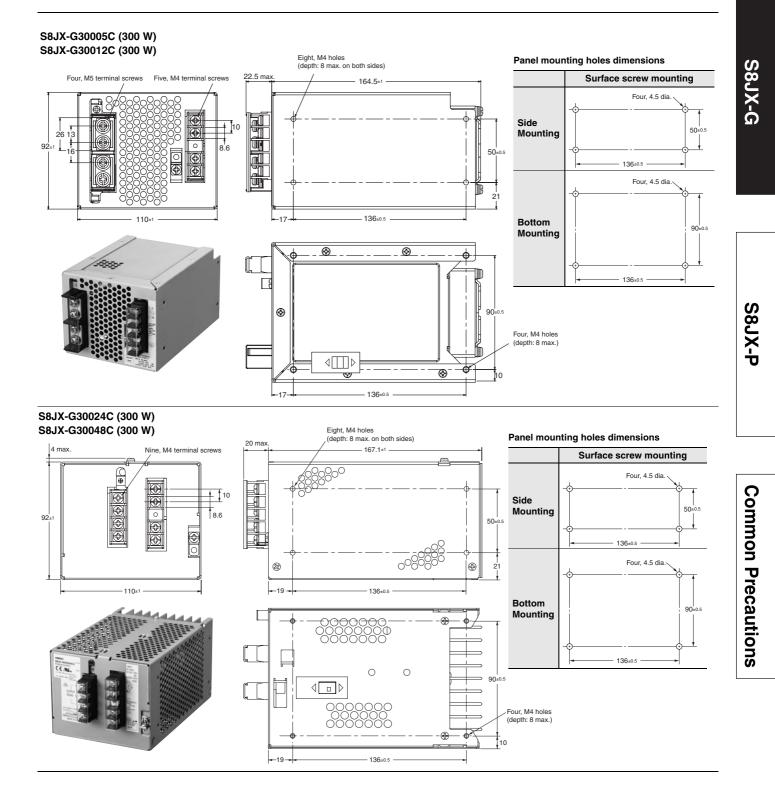
Note: A maximum startup time of 500 ms is required (650 ms for 300 W). Construct a system configuration that considers the startup time of other devices.

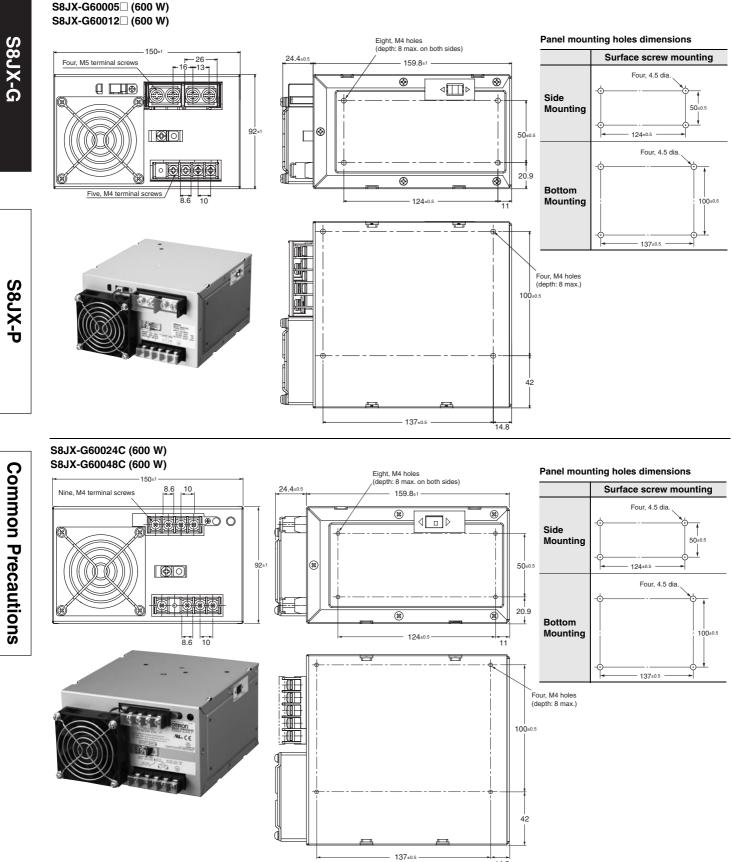


**Dimensions** 



**Common Precautions** 





14.8

### Mounting Bracket Provided with Front-mounting Power Supplies (A)

### 15-/35-/50-/100-/150-W Models

Mounting

dimensions

60

Two. M3

20

#### S82Y-J00F Front-mounting Bracket

+11+ + 4.6 15±0.2

. Two. 3.5 dia

20 -31.5

20.5

Material: Stainless steel

Dimensions

60

t = 1.0

## **Front-mounting Method**

Temporarily attach the enclosed mounting bracket as shown in the illustration on the right, hook the holes (parts a) in the Power Supply on hooks on the mounting bracket (parts b), and secure the Power Supply with two mounting screws.

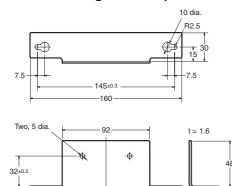
Note: Mounting screws are not provided. P Mounting bracket Power Supply

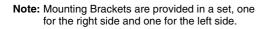
S8JX-P

S8JX-G

### 300-/600-W Models

### Front-mounting Bracket (S82Y-J30F)



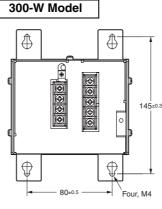


### **Dimensions with Mounting Brackets**

₿

₽

120±0.5



600-W Model \$ 145±0. 0 Π 

Four, M4

Attaching the Mounting Brackets

Note: To provide ventilation space, the body will shift forward by 21.6 mm from the mounting surface.

#### 600-W Model

300-W Model



Note: To provide ventilation space, the body will shift forward by 23.6 mm from the mounting surface.

#### Separately purchasable mounting brackets (Please ask your dealer for details of delivery.)

#### For 15-W/30-W/50-W/100-W/150-W/300-W/600-W models (separately purchasable)

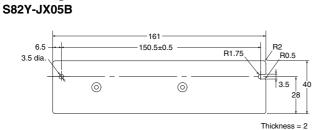
### Bracket for changeover from S82J-series

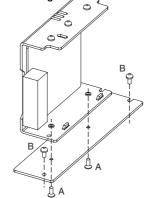
The mounting-hole pitch of mounting brackets A - I below is identical to that of our product S82J. These brackets can be used for switchover with the S82J-series.

Models compatible with the S82J-series	Mounting Orientation	Products names	Model
50-W models		Mounting bracket A (For S8JX-G-series 50-W models)	S82Y-JX05B
100-W 24 V models	Underside mounting	Mounting bracket B (For S8JX-G-series 100-W 24 V models)	S82Y-JX10B
100-W 5 V, 12 V, 150-W 24 V models	-	Mounting bracket C (For S8JX-G-series 100-W 5 V, 12V, 150 W models)	S82Y-JX15B
100-W 5 V, 12 V, 150-W 24 V models	Front mounting	Mounting bracket D (For S8JX-G-series 100-W 5 V, 12 V, 150 W models)	S82Y-JX15F
25-W models	Underside mounting	Mounting bracket E (For S8JX-G-series 30-W models)	S82Y-JX03B
	Underside mounting	Mounting bracket F (For S8JX-G-series 300-W models)	S82Y-JX30B
300-W models	Front mounting	Mounting bracket G (For S8JX-G-series 300-W models)	S82Y-JX30F
	Underside mounting	Mounting bracket H (For S8JX-G-series 600-W models)	S82Y-JX60B
600-W models	Front mounting	Mounting bracket I (For S8JX-G-series 600-W models)	S82Y-JX60F

Method of Mounting

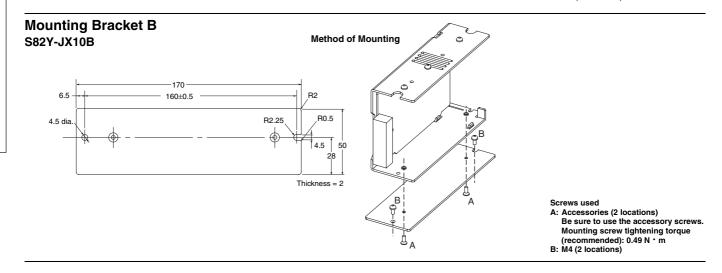
### **Mounting Bracket A**





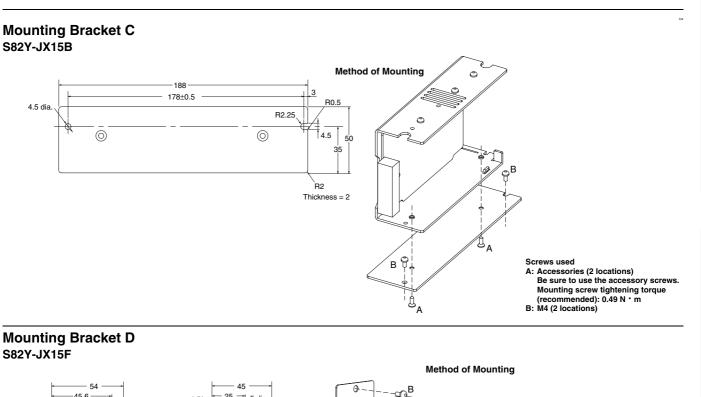
Screws used

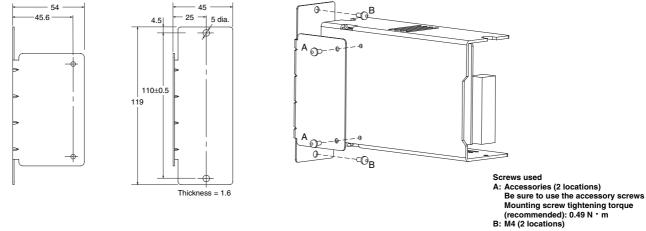
A: Accessories (2 locations) Be sure to use the accessory screws. Mounting screw tightening torque (recommended): 0.49 N · m B: M3 (2 locations)



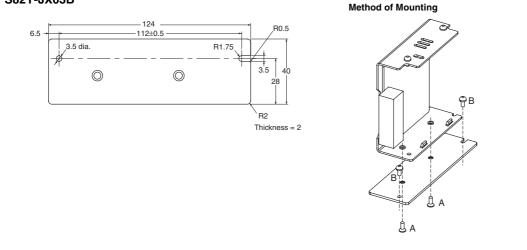
S8JX-P

**Common Precautions** 

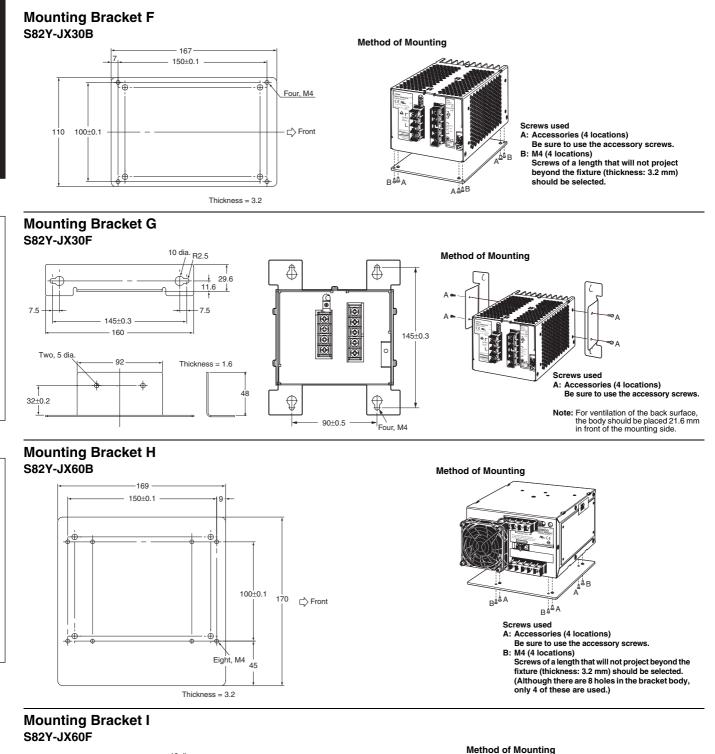


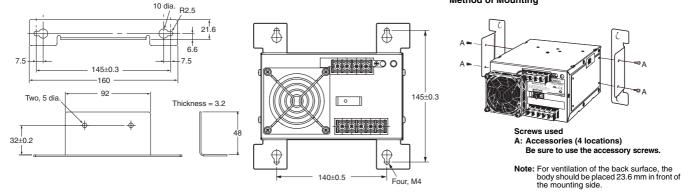


#### **Mounting Bracket E** S82Y-JX03B



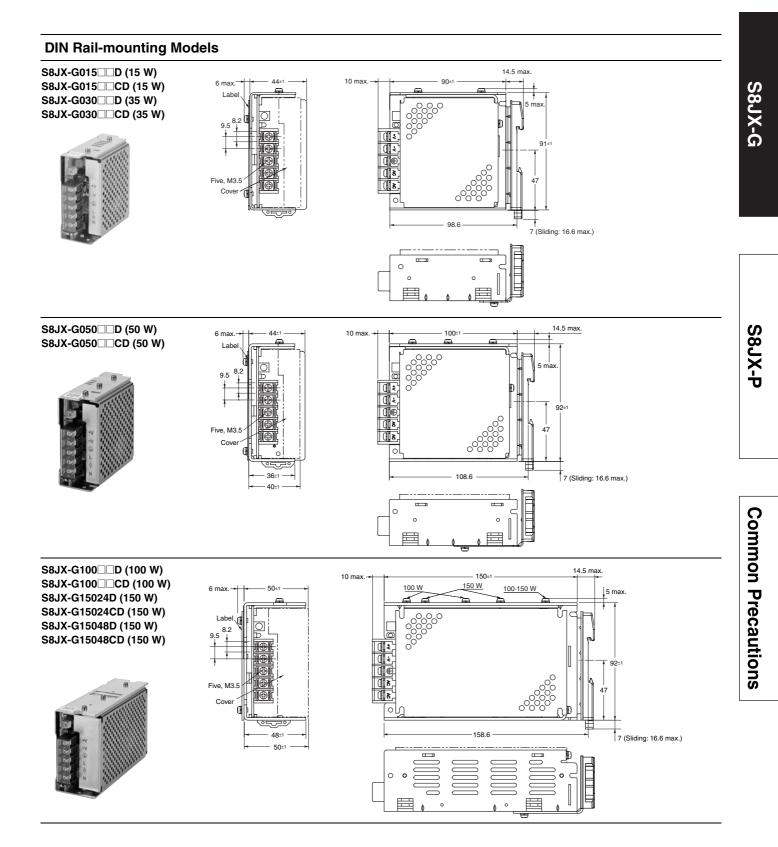
Screws used A: Accessories (2 locations) Be sure to use the accessory screws. Mounting screw tightening torque (recommended): 0.49 N • m B: M3 (2 locations)

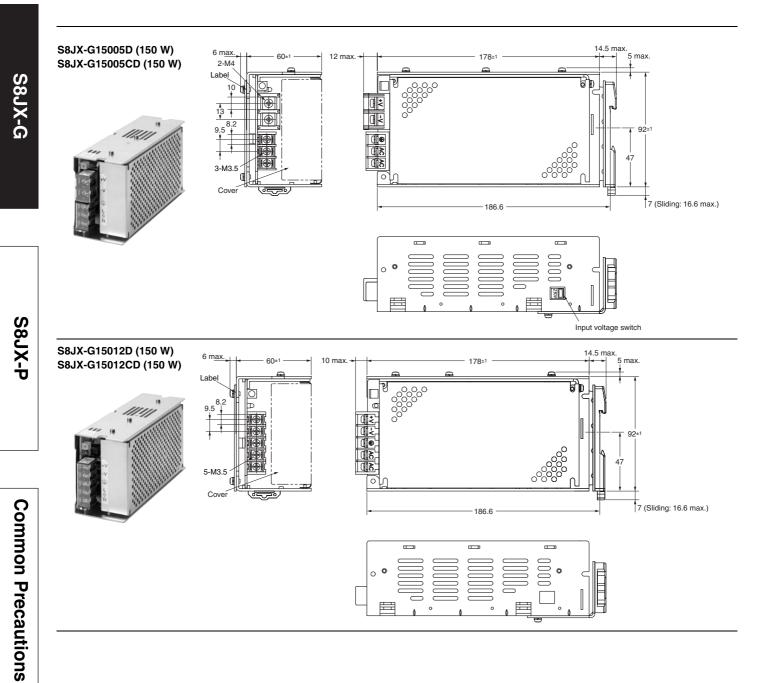


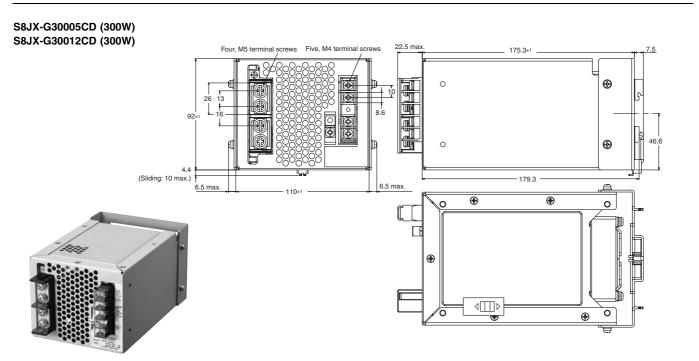


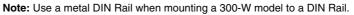
S8JX-P

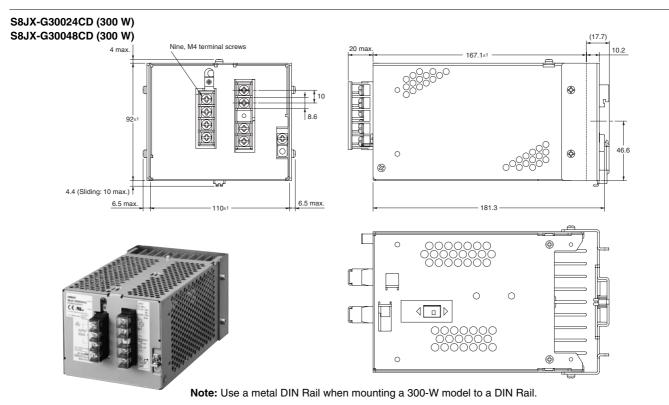
**Common Precautions** 



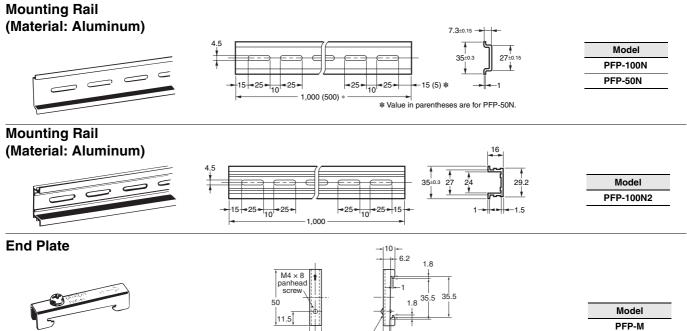








### **DIN Rail (Order Separately)**



Note: 1. If there is a possibility that the Unit will be subject to vibration or shock, use a steel DIN Rail. Otherwise, metallic filings may result from aluminum abrasion.

M4 spring

1.3

-4.8

2. If the Unit may be subjected to sliding to either side, attach an End Plate (model PFP-M) on each side of the Unit.

10

### **Terminal Cover (Order Separately)**

Terminal Cover model	Applicable Power Supply and applicable location
S82Y-JX-C4P	S8JX-G-300W, 24-V or 48-V output
302 1-3X-04F	S8JX-G-600W, 24-V or 48-V output
S82Y-JX-C5P	S8JX-G-300W, input
3021-JA-C3P	S8JX-G-600W, input
	S8JX-G-15W
	S8JX-G-30W
S82Y-JTC1	S8JX-G-50W
	S8JX-G-100W
	S8JX-G-150W, 12-V, 24-V or 48-V model

### **Replacement Fan (sold separately)**

Model S82Y-JXFAN

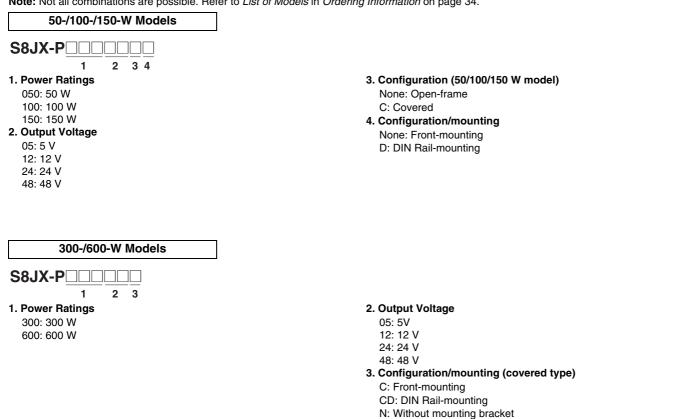
S8JX-P

32

### **Model Number Structure**

### Model Number Legend

Note: Not all combinations are possible. Refer to List of Models in Ordering Information on page 34.



Note: Estimates can be provided for coatings and other specifications that are not given in the datasheet. Ask your OMRON representative for details.

S8JX-P

## **Ordering Information**

### List of Models

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

Configuration		Input voltage	Power ratings	Output voltage (VDC)	Output current	Model
				5 V	10 A	S8JX-P05005
			50 W	12 V	4.2 A	S8JX-P05012
			50 W	24 V	2.1 A	S8JX-P05024
				48 V	1.1 A	S8JX-P05048
				5 V	20 A	S8JX-P10005
			100 W	12 V	8.5 A	S8JX-P10012
	Front-mounting *1		100 W	24 V	4.5 A	S8JX-P10024
				48 V	2.1 A	S8JX-P10048
				5 V	30 A	S8JX-P15005
Open-frame Power Supplies			150 W	12 V	13 A	S8JX-P15012
			150 W	24 V	6.5 A	S8JX-P15024
				48 V	3.3 A	S8JX-P15048
				5 V	10 A	S8JX-P05005D
			50.14	12 V	4.2 A	S8JX-P05012D
			50 W	24 V	2.1 A	S8JX-P05024D
	DIN Rail-mounting #2			48 V	1.1 A	S8JX-P05048D
		100 to 240 VAC (free) (80 to 370 VDC *3)	100 W	5 V	20 A	S8JX-P10005D
				12 V	8.5 A	S8JX-P10012D
				24 V	4.5 A	S8JX-P10024D
				48 V	2.1 A	S8JX-P10048D
			150 W	5 V	30 A	S8JX-P15005D
				12 V	13 A	S8JX-P15012D
				24 V	6.5 A	S8JX-P15024D
				48 V	3.3 A	S8JX-P15048D
	Front-mounting <b>*</b> 1		50 W	5 V	10 A	S8JX-P05005C
				12 V	4.2 A	S8JX-P05012C
				24 V	2.1 A	S8JX-P05024C
				48 V	1.1 A	S8JX-P05048C
			100 W	5 V	20 A	S8JX-P10005C
				12 V	8.5 A	S8JX-P10012C
				24 V	4.5 A	S8JX-P10024C
				48 V	2.1 A	S8JX-P10048C
			150 W	5 V	30 A	S8JX-P15005C
				12 V	13 A	S8JX-P15012C
				24 V	6.5 A	S8JX-P15024C
Covered Power				48 V	3.3 A	S8JX-P15048C
Supplies		4		5 V	10 A	S8JX-P05005CD
112 22				12 V	4.2 A	S8JX-P05012CD
			50 W	24 V	2.1 A	S8JX-P05024CD
				48 V	1.1 A	S8JX-P05048CD
				48 V	20 A	S8JX-P10005CD
			1	12 V	8.5 A	S8JX-P10005CE
	DIN Rail-mounting *2		100 W	24 V	4.5 A	S8JX-P10012CL
			1	48 V	2.1 A	S8JX-P10024CL
				48 V 5 V	2.1 A 30 A	S8JX-P10048CL S8JX-P15005CL
			1	12 V		
			150 W		13 A	S8JX-P15012CD
	1		1	24 V	6.5 A	S8JX-P15024CD

 $\boldsymbol{*1.}$  The front-mounting bracket is included as standard with the product.

\*2. A front-mounting bracket is not included with the product.
\*3. The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).

Config	guration	Input voltage	Power ratings	Output voltage (VDC)	Output current	Model
Covered Power Sup- plies	Front-mounting *1		300 W	24 V	14 A peak current 16.5 A (200 VAC)	S8JX-P30024C Upcoming
			600 W	24 V	27 A peak current 31 A (200 VAC)	S8JX-P60024C Upcoming
	DIN Rail-mounting *2 Without mounting brackets *2	100 to 240 VAC         300 W           (free)         (80 to 370 VDC *3)           600 W         300 W           600 W         600 W	300 W	24 V	14 A peak current 16.5 A (200 VAC)	S8JX-P30024CD Upcoming
			600 W	24 V	27 A peak current 31 A (200 VAC)	S8JX-P60024CD Upcoming
			300 W	24 V	14 A peak current 16.5 A (200 VAC)	S8JX-P30024N Upcoming
			600 W	24 V	27 A peak current 31 A (200 VAC)	S8JX-P60024N Upcoming

\*1. The front-mounting bracket is included as standard with the product.
\*2. A front-mounting bracket is not included with the product.
\*3. The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).

# **Ratings, Characteristics, and Functions**

		Input specification		100 to 240 V input				
Item		Power ratings *1	50 W	100 W	150 W			
		5-V Models	73% min.	78% min.	79% min.			
Efficiency		12-V Models	76% min.	78% min.	78% min.			
Efficiency		24-V Models	77% min.	81% min.	81% min.			
		48-V Models	80% min.	81% min.	82% min.			
			100 to 240 VAC (allowable range: 85 to 264 VAC)					
	Voltage *2		80 to 370 VDC <b>*9</b>	0 /				
	Frequency *2		50/60 Hz (47 to 63 Hz)					
		100 V input	0.75 A max.	1.4 A max.	2.1 A max.			
	Current *3	200 V input	0.4 A max.	0.75 A max.	1.1 A max.			
	Power factor		0.9 min.					
Input	Harmonic current emis	ssions	Conforms to EN61000-3-2					
		100 V input	0.5 mA max.					
	Leakage current *3	200 V input	1 mA max.					
	lamonth annual (fam.a	100 V input	1 mA max. 17.5 A max.					
	Inrush current (for a cold start at 25°C) *3	· · · · · · · · · · · · · · · · · · ·	35 A max.					
		200 V input	Yes					
	Noise filter			40 \/ madalay + 100/ \				
	Voltage adjustment ra	แยะ ≁ว	-10% to 15% (with V. ADJ) (	40-V IIIUUEIS: ±10%)				
			2% (p-p) max. This shall be 3% (p-p) or less w	hen the ambient temperature is	less than 0°C (for only 5 V type			
	Input variation influence		0.4% max. with AC input vol	age				
Output *4	Load variation influen	ce	0.8% max. (0 to 100% load,	rated input voltage)				
	Temperature variation	influence	0.05%/°C max. (at rated input	it and output)				
	Startup time		1,000 ms max.					
	Hold time *3		20 ms min.					
	Overload protection *	6	105% to 160% of rated load current, voltage drop, intermittent, automatic reset					
	Overvoltage protection *7		Yes					
Additional functions	Overheat protection	•••	No					
Tunctions	Parallel operation			ion io noosible: external diad	a required )			
	Series operation			ion is possible; external diode pplies; external diodes requir				
	Protective circuit oper	ation indicator	No		60.)			
	Ambient operating ten		Refer to the derating curve in Engineering Data on page 42 (with no icing or					
			condensation). 25 to 75°C (with no icing or condensation)					
	Storage temperature	an i al ita a	25% to 85% (Storage humidity: 25% to 90%)					
	Ambient operating hu	many						
	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 M $\Omega$ 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 <sup>2</sup> , 3 times each in $\pm X$ , $\pm Y$ , $\pm Z$ directions					
	Output indicator		Yes (Color: Green)					
	ЕМІ	Conducted Emissions	Conforms to EN 55011 Group 1 Class B and based on FCC Class B *9					
Other		Radiated Emissions	Conforms to EN 55011 Grou	p 1 Class B <b>*9</b>				
Other		Electrostatic Discharge	Conforms to EN61000-4-2					
		Radiated Electromagnetic Field	Conforms to EN61000-4-3					
	EMS	Electrical Fast Transient/Burst	Conforms to EN61000-4-4					
	EMS	Surge	Conforms to EN61000-4-5					
		Conducted Disturbance	Conforms to EN61000-4-6					
		Voltage Dips/Short Interruptions	Conforms to EN61000-4-11					
	Approved standards *	Approved standards *9		UL Listed: UL 508 (Listing), UL UR: UL 60950-1 (Recognition) cUL Listed: CSA C22.2 No.107.1 cUR: CSA C22.2 No. 60950-1				
			(Terminal block: Based on D		N 60950-1 (= VDE 0805 Teil			
	SEMI		SEMI F47-0706 (200-VAC ir					
	Weight *8		370 g max.	550 g max.	590 g max.			

\*1. When a load is connected that has a built-in DC-DC converter, the overload protection may operate at startup and the Power Supply may not start. Refer to *Overload Protection* on page 44. **\*2.** 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. **\*3.** Rated input voltage: 100 or 200 VAC at 100% load.

\*4. Output characteristics: Specified at power supply output terminals.
\*5. If the output voltage adjuster (V. ADJ) is turned, the voltage will increase by more than the allowable voltage range. When adjusting the output voltage, confirm the actual output voltage from the Power Supply and be sure that load is not damaged.

\*6. For details, refer to Overload Protection on page 44.

\*7. To reset the protection, turn OFF the input power for three minutes or longer and then turn it back ON.

\*8. The weight indicated is for Front-mounting, Open-frame Power Supply.
 \*9. The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).

	Input specification		100 to 240 V input				
Item	Power ratings *1		300 W 600 W				
Efficiency		24V models	79% min.	78% min.			
	Voltage *2		100 to 240 VAC (allowable range: 85 to 26 80 to 370 VDC <b>*8</b>	34 VAC)			
	Frequency *2		50/60 Hz (47 to 63 Hz)				
		100 V input	4.5 A max.	8.7 A max.			
	Current *3	200 V input	2.2 A max.	4.3 A max.			
	Power factor		0.9 min.				
nput	Harmonic current emis	sions	Conforms to EN61000-3-2				
		100 V input	0.5 mA max.				
	Leakage current *3	200 V input	1 mA max.				
	Inrush current (for a	100 V input	17.5 A max.				
	cold start at 25°C) *3	•	35 A max.				
	Noise filter						
	Voltage adjustment rar	nge *5					
	Ripple *3	-					
	Input variation influence	ce	0.4% max.				
utput *4	Load variation influence	200 V input       1 mA max.         (for a r <sup>o</sup> C) *3       200 V input       35 A max.         Yes       Yes         ment range *5       -10% to 15% (with V. ADJ)         2% (p-p) max.       0.4% max.         influence       0.4% max.         influence       0.4% max.         influence       0.5%/°C max.         1.000 ms max.       20 ms min.         20 ms min.       20 ms min.         cetton *6       105% to 160% of rated load current, voltage drop, intermittent, automatic reset.         ves       100 V input         influence       0.5%/°C max.         1,000 ms max.       20 ms min.         cetton *6       105% to 160% of rated load current, voltage drop, intermittent, automatic reset.         ves       105% to 160% of rated load current, voltage drop, intermittent, automatic reset.         vestion *1       Yes         ves       (For up to two Power Supplies)         ves       Yes (bro to 100 rever Supplies; external diodes required.)         uit operation indicator       Yes (color: red)         ting temperature       Refer to the derating curve in <i>Engineering Data</i> on page 42 (with no icing or condensation)         20 kVAC for 1 min. (between all inputs and outputs; detection current: 20 mA)       3.0 kVAC for 1 min. (between all input					
	Temperature variation		-				
	Startup time						
	Hold time *3						
	Overload protection *6			e drop, intermittent, automatic reset.			
	Overvoltage protection						
Additional C unctions F	Overheat protection						
	Parallel operation						
	Series operation			al diodes required )			
	· · ·	ation indicator		······································			
	Ambient operating tem			ata on page 42 (with no icing or condensation			
	Storage temperature						
	Ambient operating hun	nidity		,			
	Dielectric strength		<ul> <li>3.0 kVAC for 1 min. (between all inputs and outputs; detection current: 20 mA)</li> <li>2.0 kVAC for 1 min. (between all inputs and PE terminals; detection current: 20 mA)</li> <li>1.0 kVAC for 1 min. (between all outputs and PE terminals; detection current: 100 mA)</li> <li>100 VAC for 1 min. (between all outputs and RC terminals; detection current: 100 mA)</li> <li>500 VAC for 1 min. (between all outputs and ALM terminals; detection current: 20 mA)</li> </ul>				
	Insulation resistance		100 $\text{M}\Omega$ min. (between all outputs and all inputs/PE terminals) at 500 VDC				
	Vibration resistance		10 to 55 Hz, 0.375-mm single amplitude for	or 2 h each in X, Y, and Z directions			
	Shock resistance		150 m/s², 3 times each in ±X, ±Y, ±Z directions <b>*11</b>				
	Output indicator		Yes (Color: Green)				
	EMI	Conducted Emissions *3	Conforms to EN 55011 Group 1 Class B and based on FCC Class B *12				
Other	EMI	Radiated Emissions	Conforms to EN 55011 Group 1 Class B *12				
		Electrostatic Discharge	Conforms to EN61000-4-2				
		Radiated Electromagnetic Field	Conforms to EN61000-4-3				
	EMS	Electrical Fast Transient/Burst	Conforms to EN61000-4-4				
	EWS	Surge	Conforms to EN61000-4-5				
		Conducted Disturbance	Conforms to EN61000-4-6				
		Voltage Dips/Short Interruptions	Conforms to EN61000-4-11				
			UL UR: UL 508 (Recognition), UL 60950-1	(Recognition)			
			cUR: CSA C22.2 No.107.1, CSA C22.2 No.	p. 60950-1			
	Approved standards *8		EN/VDE: EN50178 (= VDE 0160) Over voltage category III <b>*9</b> , EN 60950-1 (= VDE 0805 Teil 1) <b>*9</b> (Terminal block: Based on DIN 50274 (VDE 0660-514))				
	SEMI		SEMI F47-0706 (200-VAC input)				
	Weight		1,200 g max. <b>*10</b>	1,800 g max. <b>*10</b>			

- \*1. When a load is connected that has a built-in DC-DC converter, the overload protection may operate at startup and the Power Supply may not start. Refer to Overload Protection on page 44.
- **\*2.** 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.
- **\*3.** Rated input voltage: 100 or 200 VAC at 100% load.
- **\*4.** Output characteristics: Specified at power supply output terminals.
- **\*5.** If the output voltage adjuster (V. ADJ) is turned, the voltage will increase by more than the allowable voltage range. When adjusting the output voltage, confirm the actual output voltage from the Power Supply and be sure that load is not damaged.
- **\*6.** For details, refer to *Overload Protection* on page 44.
- \*7. To reset the protection, turn OFF the input power for three minutes or longer and then turn it back ON.
- \*8. The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).
- \*9. The 24-V models are scheduled to obtain certification in March 2012.
- **\*10.**The weight is of the type without a mounting bracket.
- \*11.S8JX-P600 CD: 100 m/s2
- \*12.300-W/600-W models conform to Class B with an aluminum plate set under the product.

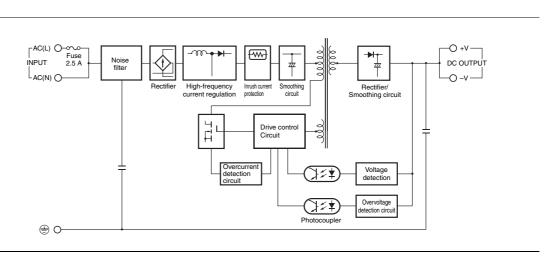
S8JX-G

S8JX-P

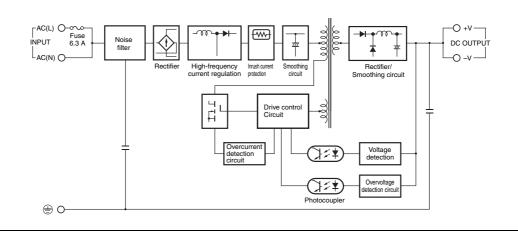
# Connections

## **Block Diagrams**

S8JX-P050 (50 W)

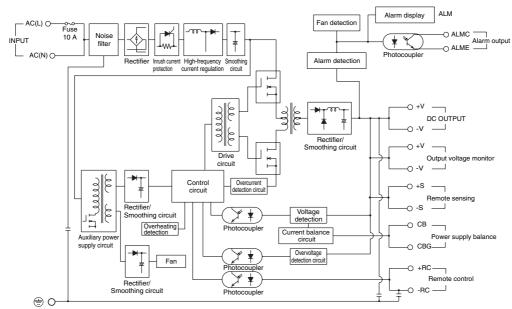


#### S8JX-P100 (100 W) S8JX-P150 (150 W)

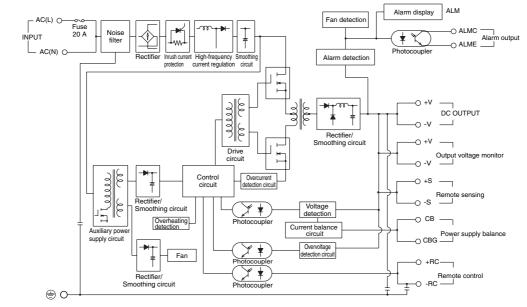


**Common Precautions** 

## S8JX-P300 (300 W)



#### S8JX-P600 (600 W)



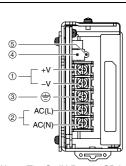
S8JX-P

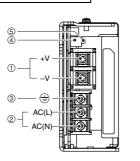
# **Construction and Nomenclature**

300-W Models 5

50-/100-/150-W Models

# Nomenclature





Note: The S8JX-P05005CD is shown above.

3

Note: The S8JX-P30024N is shown above.

2

Note: The S8JX-P60024N is shown above.

600-W Models

v

3

+V

Jam

Note: The S8JX-P15005C is shown above.

6

(4)

2

6

4 6

 $\overline{(7)}$ 

7

No.	Name	Function
1	DC Output Terminals (-V), (+V)	Connect the load lines to these terminals.
2	AC Input Terminals (L), (N)	Connect the input lines to these terminals. <b>*1</b>
3	Protective Earth Terminal (PE) ( 🚖 )	Connect the ground line to these terminals. *2
4	Output Voltage Adjuster (V. ADJ)	It is possible to increase or decrease the output voltage.
5	Output Indicator (DC ON: Green)	Lights green while a direct current (DC) output is ON.

\*1. The fuse is located on the (L) side. It is NOT user-replaceable. For a DC power input, connect the low side to the positive (+) terminal.
\*2. This is the protective earth terminal specified in the safety standards. Always ground this terminal.

No.	Name	Function		
1	Input Terminals (L), (N)	Connect the input lines to these terminals. *1		
2	Protective Earth Terminal (PE) (=)	Connect the ground line to these termi- nals. *2		
3	DC Output Terminals (-V), (+V)	Connect the load lines to these terminals.		
4	Output Indicator (DC ON: Green)	Lights green while a direct current (DC) output is ON.		
5	Output Voltage Adjuster (V. ADJ)	It is possible to increase or decrease the output voltage.		
6	Alarm indicator (ALM: Red)	This lamp lights up at the time of output voltage deterioration or fan stoppage, and in standby mode by remote control function.		
7	Signal output connector *3	<ol> <li>Output voltage monitor terminal (+V)</li> <li>Remote sensing terminal (+S)</li> <li>Output voltage monitor terminal (-V)</li> <li>Remote sensing terminal (S)</li> <li>Current balance terminal (CB)</li> <li>Current balance ground terminal (CBG)</li> <li>Remote control terminal (+RC)</li> <li>Remote control terminal (-RC)</li> <li>(Not connected)</li> <li>(Not connected)</li> <li>Alarm detection output terminal (ALMC) (Collector side)</li> <li>Alarm detection output terminal (ALME) (Emitter side)</li> </ol>		

\*1. The fuse is located on the (L) side. Ensure that the (L) side is set to (+). \*2. This is a PE (Protective Earth) terminal defined in safety standards and must be grounded.

\*3. Signal input/output connectors are included as standard and implemented in the CN1 before shipment.

In this connector, the circuits of 1-2, 3-4, and 7-8 are shorted. Removal of the connector may deteriorate the output stability and accuracy, so be sure to perform the connection of +S and -S terminals.

Never connect a load to the output voltage monitor terminal (+V, -V).

Reference Values	
Reliability (MTBF)	50 W: 190,000 hrs 100 W: 160,000 hrs 150 W: 160,000 hrs 300 W: 160,000 hrs 600 W: 150,000 hrs
Definition	MTBF stands for Mean Time Between Failures, which is calculated according to the probability of accidental device failures, and indicates reliability of devices. Therefore, it does not necessarily represent a life of the product.
Life expectancy	10 yrs. min.
Definition	The life expectancy indicates average operating hours under the ambient temperature of 40°C and a load rate of 50%. Normally this is determined by the life expectancy of the built-in aluminum electrolytic capacitor.

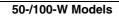
(%)

-oad rate

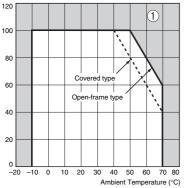
S8JX-C

# **Engineering Data**

## **Derating Curves (Standard Mounting)**



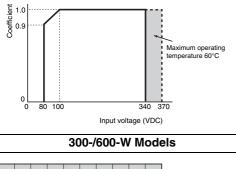
Front-mounting, DIN Rail mounting, Bottom-mounting, Side-mounting

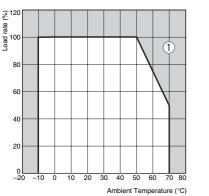


- Note: 1. Internal parts may occasionally deteriorate or be damaged. Do not use the Power Supply in areas outside the derating curve (i.e., the area shown by shading ① in the above graph).
   If there is a derating problem, use forced air-cooling.
  - (For Customers using 100-ent, use forced all-cooling).
     (For Customers using 100-W type for a DC Input) When using an input voltage of less than 100 VDC, reduce the load calculated with the above derating curve by at least the following coefficients.

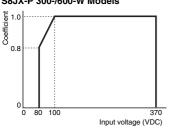
When using a voltage exceeding 340 VDC, the ambient temperature should be 60°C or less.

S8JX-P 100-W Models



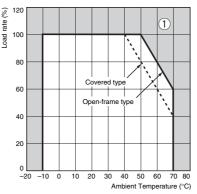


- Note: 1. Internal parts may occasionally deteriorate or be damaged. Do not use the Power Supply in areas outside the derating curve (i.e., the area shown by shading ① in the above graph).
   2. The ambient temperature is defined at a location 50 mm
  - The ambient temperature is defined at a location 50 mm forward from the center of the front surface of the product.
  - (For Customers using 300-/600-W type for a DC Input) Reduce the load calculated with the above derating curve by at least the following coefficients.
     S8JX-P 300-/600-W Models

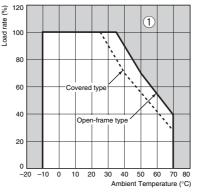


150-W Models

#### Front-mounting, DIN Rail mounting, Bottom-mounting



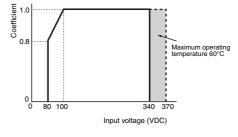
#### Horizontal-side-mounting



- 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.
  - (For customers using 150-W type for a DC Input) When using an input voltage of less than 100 VDC, reduce the load calculated with the above derating curve by at least the following coefficients.

When using a voltage exceeding 340 VDC, the ambient temperature should be  $60^\circ\text{C}$  or less.

S8JX-P 150-W Models

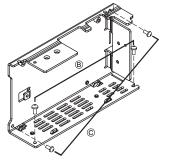


## Mounting

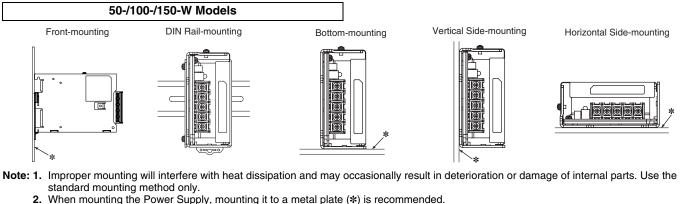
#### 50-/100-/150-W Models

The following three mounting methods are possible.

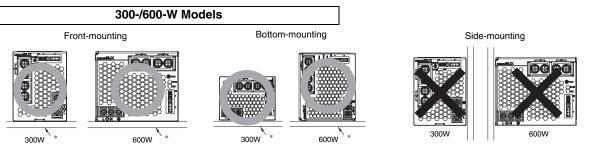
- (A). Front-mounting: Refer to Mounting Bracket Provided with Front-mounting Power Supplies (A) on page 52.
- (B). Bottom-mounting
- ©. Side-mounting
- Note: Additional mounting methods are also available using DIN Rail-mounting models.



# **Standard Mounting**



- When mounting the Power Supply, mounting it to a metal plate (\*) is recommended.
- 3. Install the Power Supply so that the air flow circulates around the Power Supply, as the Power Supply is designed to radiate heat by means of natural air flow.



Note: 1. Improper mounting will interfere with heat dissipation and may occasionally result in deterioration or damage of internal parts. Use the standard mounting method only.

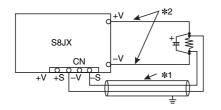
- 2. When mounting the Power Supply, mounting it to a metal plate (\*) is recommended.
- 3. Do not cover the air holes (provided at fan mounted side and the opposite side) to have enough air-cooling.

#### Remote sensing function

This function is used when compensating the voltage drop of the load line

The remote sensing function is operated by connecting +S terminal (2 pin on CN) to +side of the load terminal and -S terminal (4 pin on CN) to -side of the load terminal.

When the remote sensing function is not used, using a connector provided as standard enables the connection between +S and +V terminals (1 pin on CN) and between -S and -V terminals (3 pin on CN) respectively.



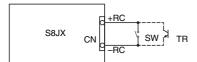
Note: 1. Use a two-core shield wire for connection line (\*1).

- 2. If the voltage drop on a load line (\*2) is large, the output voltage of the power supply may rise by the voltage drop amount and activate the overvoltage protection. Therefore, be sure to use as thick a wire as possible.
- 3. Be sure to use the voltage drop at 0.3 V or less.
- 4. If the load line is long, be sure to use an electrolytic capacitor between the load terminals. As the used electrolytic capacitor may be heated by ripple current due to the connected load, be sure to use an electrolytic capacitor having an allowable ripple current exceeding the used ripple current.
- 5. Opening status of +S and -S terminals may deteriorate the output stability and accuracy. Therefore, be sure to connect -S and -S terminals
- 6. Remove a connector provided as standard and prepare a harness separately.

#### Remote control function

This function is to turn ON/OFF the output by an external signal using +RC terminal (7 pin on CN) and -RC terminal (8 pin on CN) while input voltage remains applied. To use this function, connect a switch or a transistor to +RC and -RC terminals.

When not in use, use the standard supplied connector to short-circuit +RC and -RC terminals.



Level	Output voltage	Built-in fan		
Short or L (0-0.8 V)	ON	Rotation		
Open or H (2.4-12 V)	OFF	Stop		

Max. applied voltage: 12 V max., Counter voltage: -1 V max., Sink current: 3.5 mA

- Note: 1. If counter voltage is applied to remote control terminals, output voltage cannot be turned ON/OFF. Please remember this when wiring. Use a twist wire or a two-core shield wire for connection line.

  - 3. Remote control circuit is disconnected from input and output circuits.
  - 4. Remove a connector provided as standard and prepare a harness separately.

#### Alarm detection function

When output voltage drops due to overcurrent protection, overvoltage protection, or overheat protection in operation or input voltage drop, when the built-in fan stops, or when the Power Supply goes standby by remote control, the alarm indicator (LED: red) lights up to indicate the output voltage trouble. In addition, the transistor outputs that outside.

Transistor output: 30 VDC max., 50 mA max.

Residual voltage when the function is ON: 2 V max., leakage current when the function is OFF: 0.1 mA max.

Detection voltage: approximately 80% of the output voltage setting value

When trouble is detected, the transistor output is turned OFF (nonconductive pins 11-12 on CN) and the LED (red) lights up.



- Note: 1. The alarm detection function monitors the voltage at the Power Supply output end. To check an accurate voltage, measure a voltage at the load end.
  - 2. Remove the standard supplied connector and prepare a connector separately.

#### **Overload Protection**

The Power Supply is provided with an overload protection function that protects the power supply from possible damage by overcurrent. When the output current rises above 105% to 160% min. of the rated current, the protection function is triggered, decreasing the output voltage. When the output current falls within the rated range, the overload protection function is automatically cleared.

- Note: 1. When a load is connected that has a built-in DC-DC converter, the overload protection may operate at startup
  - and the power supply may not start. 2. Internal parts may occasionally deteriorate or be damaged if a short-circuited or overcurrent state continues during operation.
  - 3. Internal parts may possibly deteriorate or be damaged if the Power Supply is used for applications with frequent inrush current or overloading at the load end. Do not use the Power Supply for such applications.

#### (Reference value)

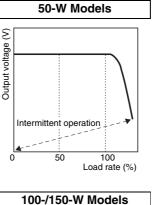
Output voltage (V)

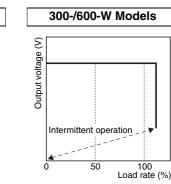
Ő

50

100

Load rate (%)





OMRON

S8JX-G

## **Overvoltage Protection**

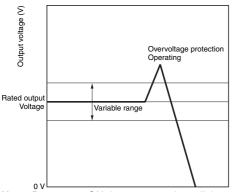
#### 50-/100-/150-W Models

Consider the possibility of an overvoltage and design the system so that the load will not be subjected to an excessive voltage even if the feedback circuit in the power supply fails. When an excessive voltage that is approximately 130% of the rated voltage or more is output, the output voltage is shut OFF, preventing damage to the load due to overvoltage. Reset the input power by turning it OFF for at least three minutes and then turning it back ON again.

#### 300-/600-W Models

Consider the possibility of an overvoltage and design the system so that the load will not be subjected to an excessive voltage even if the feedback circuit in the Power Supply fails. When an excessive voltage that is approximately 130% of the rated voltage or more is output, the output voltage is shut OFF, preventing damage to the load due to overvoltage and simultaneously the alarm indicator will be lit. Reset the input power by turning it OFF for at least three minute and then turning it back ON again.

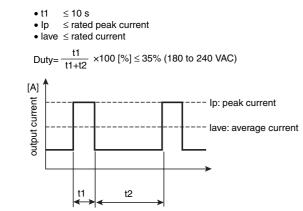
#### (Reference value)



Note: Do not turn ON the power again until the cause of the overvoltage has been removed.

# Output peak current (300-W 24V, 600-W 24V Models)

The following conditions should be satisfied for the peak current value.



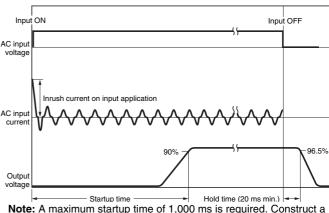
- Note: 1. Do not hold peak load current over 10 seconds. In addition, you should not use duty cycle under conditions beyond above figure.
  - It may cause damage in its power supply.Please derate peak load current depending on ambient temperature and mounting orientation.
  - 3. Please keep the average current of peak load cycle from becoming more than the rated value.

#### **Overheat Protection**

#### 300-/600-W Models

If the internal temperature rises excessively as a result of fan failure or any other reason, the overheat protection circuit will be triggered to shut OFF the output voltage and simultaneously the protection-ON alarm indicator will be lit. Reset the input power by turning it OFF for at least three minutes and then turning it back ON again.

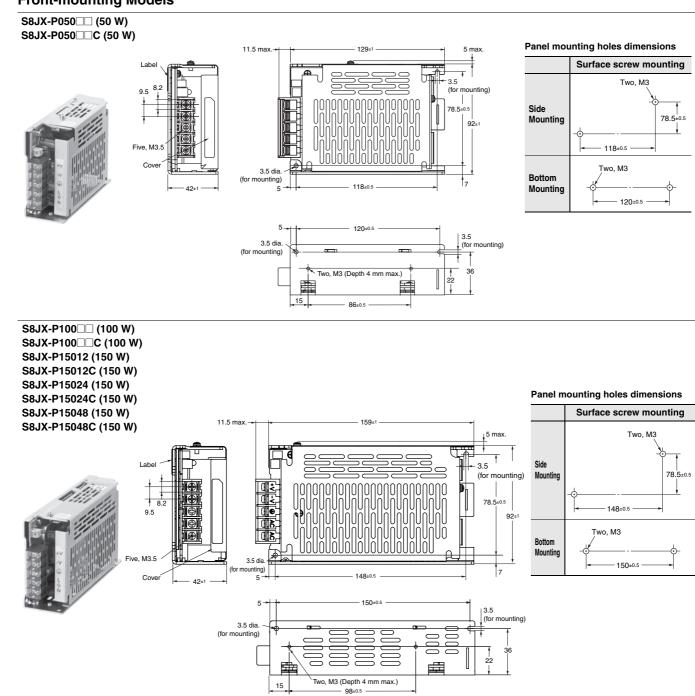
## Inrush Current, Startup Time, Output Hold Time

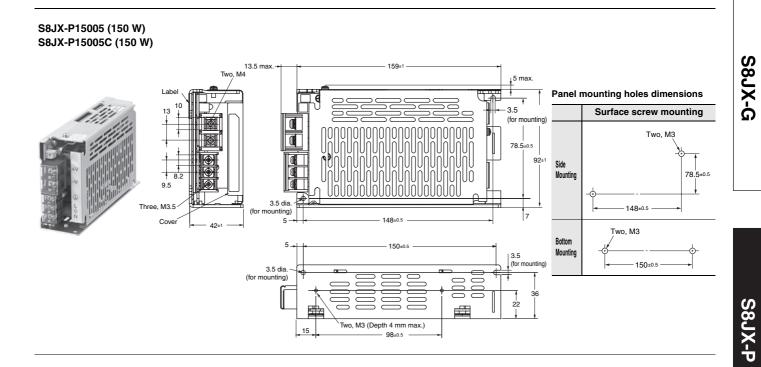


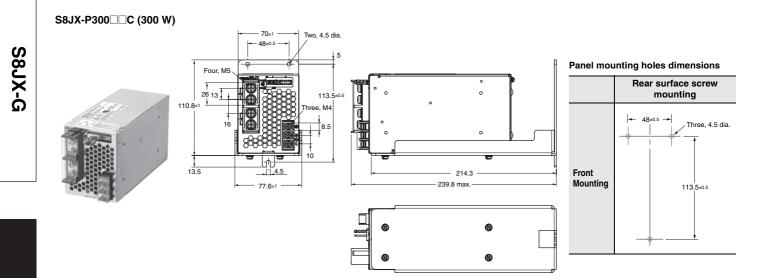
**Note:** A maximum startup time of 1,000 ms is required. Construct a system configuration that considers the startup time of other devices.

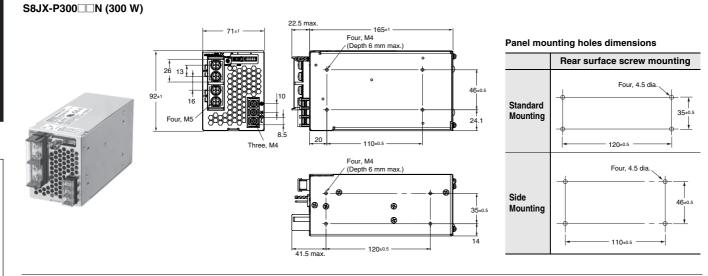
S8JX-P

# Dimensions









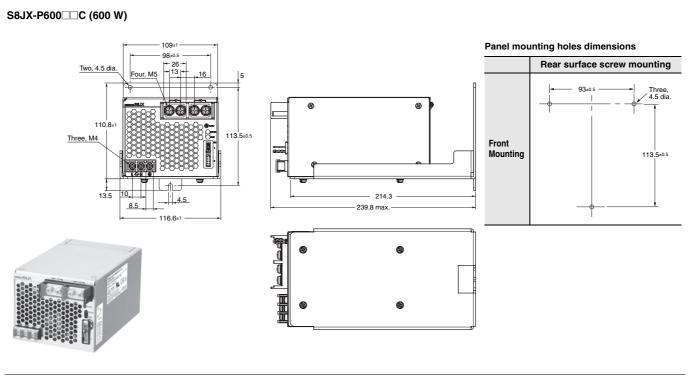
**Common Precautions** 

S8JX-P

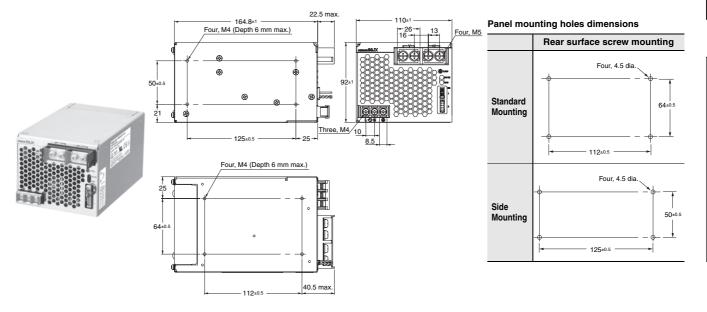
S8JX-G

S8JX-P

**Common Precautions** 

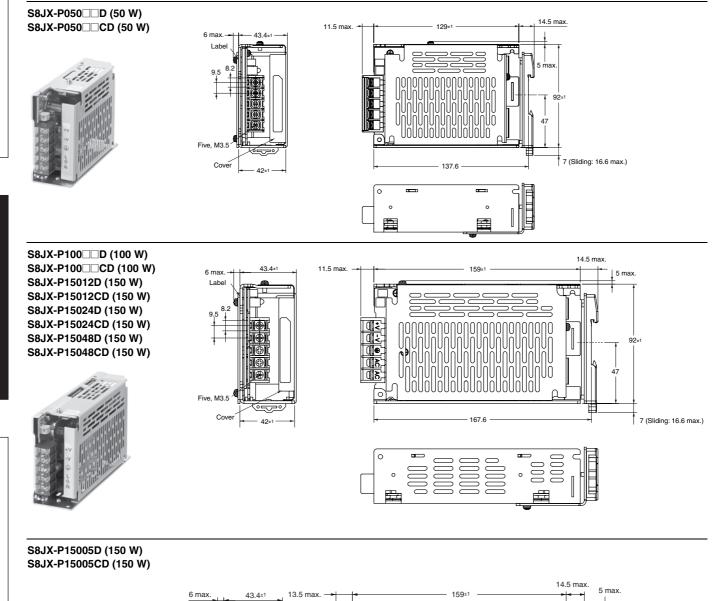


#### S8JX-P600 N (600 W)

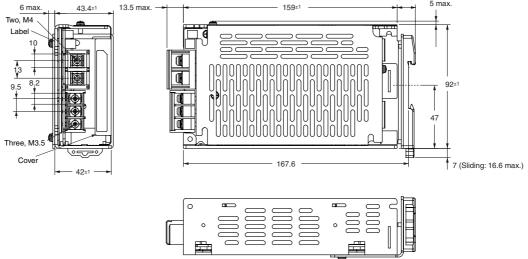


S8JX-G

## **DIN Rail-mounting Models**





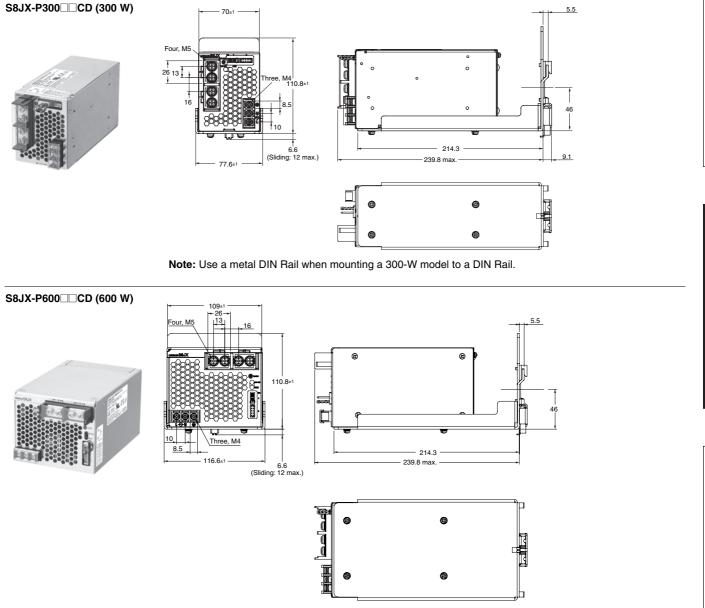


S8JX-P

S8JX-G

S8JX-P

**Common Precautions** 



## Note: Use a metal DIN Rail when mounting a 600-W model to a DIN Rail.

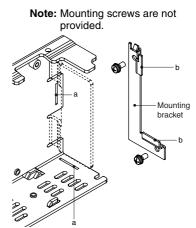
# Mounting Bracket Provided with Front-mounting Power Supplies (A)

#### S82Y-J00F Front-mounting Bracket

Mounting Dimensions dimensions 4.6 15±0.2 screws. Two, M3 60 . Two. 3.5 dia 20 20

## **Front-mounting Method**

Temporarily attach the enclosed mounting bracket as shown in the illustration on the right, hook the holes (parts a) in the Power Supply on hooks on the mounting bracket (parts b), and secure the Power Supply with two mounting



Model

PFP-M

# **DIN Rail (Order Separately)**

# **Mounting Rail**

Material: Stainless steel

60

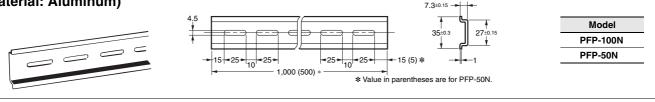
5

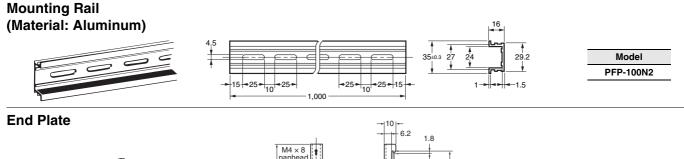
t = 1.0

+31.5

20.5









If there is a possibility that the Unit will be subject to vibration or shock, use a steel DIN Rail. Otherwise, metallic filings may result from Note: 1. aluminum abrasion.

M4 spring washer

-1.3

-4.8

2. If the Unit may be subjected to sliding to either side, attach an End Plate (model PFP-M) on each side of the Unit.

10

sore

11.5

# **Terminal Cover (Order Separately)**

Terminal Cover model	Applicable Power Supply and applicable location		
	S8JX-P50W		
S82Y-JTC1	S8JX-P100W		
	S8JX-P150W 12-V, 24-V or 48-V output		

# **Replacement Fan (sold separately)**

Product	Model
Replacement fan unit for 300-W models	S82Y-JXP30FAN
Replacement fan unit for 600-W models	S82Y-JXP60FAN

# **Safety Precautions**

# Refer to Safety Precautions for All Power Supplies.

# 

Minor electric shock, fire, or Product failure may occasionally occur. Do not disassemble, modify, or repair the Product to touch the interior of the Product.

Minor burns may occasionally occur. Do not touch the Product while power is being supplied or immediately after power is turned OFF.



Fire may occasionally occur. Tighten terminal screws to the specified torque.

M3.5, M4:1.13 N·m.

(The DC output terminal of S8JX-G15005 and S8JX-P15005:1.56 N·m.) M5:2.25 N·m.

Minor injury due to electric shock may occasionally occur. Do not touch the terminals while power is being supplied. Always close the terminal cover after wiring.

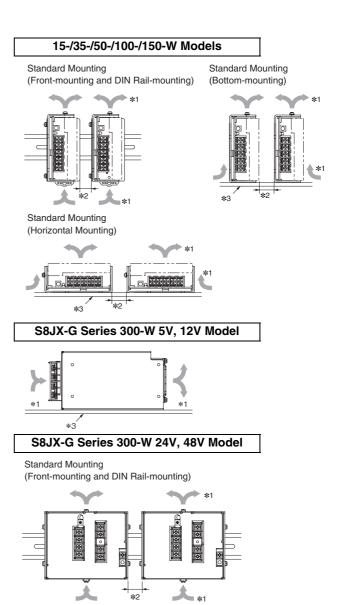


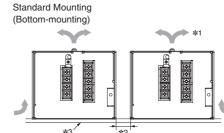
Minor electric shock, fire, or Product failure may occasionally occur. Do not allow any pieces of metal or conductors or any clippings or cuttings resulting from installation work to enter the Product.

## **Precautions for Safe Use**

#### Mounting

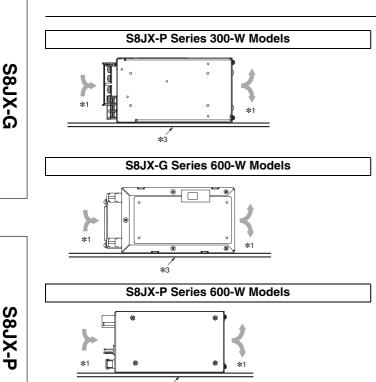
- Take adequate measures to ensure proper heat dissipation to increase the long-term reliability of the Product.
- The 300 W 24V, 48V models of S8JX-G series are designed to radiate heat by means of natural air-flow. Be sure to allow convection in the atmosphere around devices when mounting. Do not use in locations where the ambient temperature exceeds the range of the derating curve.
- The 300 W 5V, 12V, 600 W models of S8JX-G series, and 600 W models of S8JX-P series are designed to radiate heat by means of forced air-flow. Do not cover the air holes (provided at fan mounted side and the opposite side) to have enough air-cooling.
- The screws must not protrude beyond the following values inside the Power Supply when screw holes provided on the chassis are used.
  - 15 W, 35 W, 50 W, 100 W, or 150 W: 4 mm
- 300 W or 600 W of S8JX-P series: 6 mm
- 300 W or 600 W of S8JX-G series: 8 mm
- Mounting screw tightening torque (recommended value) : 0.54 N-m. • Front mounting is possible using provided mounting bracket.
- When cutting out holes for mounting, make sure that cuttings do not enter the interior of the Products.
- Improper mounting will interfere with heat dissipation and may occasionally result in deterioration or damage of internal parts. Use the standard mounting method only.
- The internal parts may occasionally deteriorate and be broken due to adverse heat radiation. Do not loosen the screw on the side face of the main body.
- When mounting two or more Power Supplies side-by-side, allow at least 20 mm for S8JX-G series and 15 mm for S8JX-P series spacing between them.
- Provide a space of at least 20 mm back and forth for S8JX-G series, and 50 mm back and forth for S8JX-P series when mounting 300-W and 600-W models as well.
- Use the metal plate as the mounting panel.
- Minor fire may occasionally occur. Set the input voltage switch to the input voltage that is to be used (150-W, 5-V models of S8JX-G series only).





\*1. Convection of air

**\*2.** 20 mm min. (15 mm min. for S8JX-P series) **\*3.** Use a metal plate as the mounting surface.



**\*1.** Convection of air

\*2.20 mm min. (15 mm min. for S8JX-P series)

\*3

\*3. Use a metal plate as the mounting surface.

#### Wiring

- Connect the ground completely. A protective earthing terminal stipulated in safety standards is used. Electric shock or malfunction may occur if the ground is not connected completely.
- Minor fire may possibly occur. Ensure that input and output terminals are wired correctly.
- Do not apply more than 75 N force to the terminal block when tightening it.
- Be sure to remove the sheet covering the Product for machining before power-ON so that it does not interfere with heat dissipation.
- Use the following material for the wires to be connected to the S8JX to prevent smoking or ignition caused by abnormal loads.

#### **Recommended Wire Type**

15 W, 35 W		AWG12 to AWG20 (a cross section of 0.517 to 3.309 mm <sup>2</sup> ) UL-certified temperature of at least 75°C		
50W, 100W, 150 W (except for 5 V)		AWG12 to AWG16 (a cross section of 1.309 to 3.309 mm <sup>2</sup> ) UL-certified temperature of at least 60°C or 60/75°C		
150 W at 5 V	Input side	AWG12 to AWG16 (a cross-section of 1.309 to 3.309 mm <sup>2</sup> ) UL-certified temperature of at least 60°C or 60/75°C		
	Output side	AWG8 to AWG14 (a cross-section of 2.08 to 8.368 mm <sup>2</sup> ) UL-certified temperature of at least 60°C of 60/75°C		
S8JX-G series 300W 5V, 12V	Input side	AWG12 to AWG20 (a cross section of 0.517 to 3.309 mm <sup>2</sup> ) UL-certified temperature of at least 60°C or 60/75°C		
600W 5V, 12V S8JX-P series 300 W, 600 W	Output side	AWG6 to AWG20 (a cross section of 0.517 to 13.30 mm <sup>2</sup> ) UL-certified temperature of at least 60°C or 60/75°C		
S8JX-G series 300 W 24V, 48V, 600 W 24V, 48V		AWG12 to AWG20 (a cross section of 0.517 to 3.309 mm <sup>2</sup> ) UL-certified temperature of at least 60°C or 60/75°C		

\* The rated current for the output terminals on the S8JX-G30005 , S8JX-G30012 , S8JX-G60005 , S8JX-G60012 , S8JX-F300 and S8JX-P600 is 60A for each terminal. The rated current for the output terminals on the S8JX-G30024 , S8JX-G30048 , S8JX-G60024 , and S8JX-G60048 is 20 A for each terminal. Use two terminals together if the current flow is higher than the rated terminal current.

# Method of Manufacturing Connector Harness for Signal I/O

For S8JX-P Series 300-/600-W models, PHD connectors manufactured by JST Mfg. Co., Ltd. should be used.

Connector used	S12B-PHDSS	Manufactured	
Housing	PHDR-12VS	by JST Mfg. Co., Ltd.	
Terminal	SPHD-001T-P0.5 or BPHD-001T-P0.5	,	

To ensure correct wiring, the following points should be borne in mind when manufacturing the connector. It is recommended that the JST Mfg. Co., Ltd. catalog be read for further details.

- Electric cable size AWG26 to AWG22 should be used.
- The electric cable sheath stripping length should be approximately 2.3 mm.
- Dedicated tool YC (Manufactured by JST Mfg. Co., Ltd.) should be used for crimping of terminals and wiring.
- Although UL12007 (Twisted wire) and other equivalent twisted wires can be used for electric cables, UL1061 with a small outer sheath shape and equivalent twisted wires should be used for AWG22.
- When accommodating crimped terminal wiring in the housing, insert the wiring as far as possible to the back of the housing in a single movement and check for an audible click. In addition, check that wiring inserted in the housing is properly locked in place.

#### Installation Environment

- Do not use the Power Supply in locations subject to shocks or vibrations. In particular, install the Power Supply as far away as possible from contactors or other devices that are a vibration source.
- Install the Power Supply well away from any sources of strong, high-frequency noise and surge.

#### **Ambient Operating and Storage Environments**

- Store the Power Supply at a temperature of -25 to  $65^{\circ}$ C (-25 to  $75^{\circ}$ C for S8JX-P series) and a humidity of 25% to 90%.
- The Internal parts may occasionally deteriorate or be damaged. Do not use the Power Supply outside the derating range (i.e., the area shown by shading ① in the derating curve diagram on page 42.)
- Use the Power Supply at a humidity of 25% to 85%.
- Do not use the Power Supply in locations subject to direct sunlight.
- Do not use locations where liquids, foreign matter, or corrosive gases may enter the interior of the Product.

#### **Overload Protection**

- Internal parts may possibly deteriorate or be damaged if a shortcircuited, overload or peak load state continues during operation.
- Internal parts may possibly deteriorate or be damaged if the Power Supply is used for applications with frequent inrush current or overloading at the load end. Do not use the Power Supply for such applications.

#### **Charging a Battery**

When connecting a battery at the load, connect an overcurrent limiting circuit and overvoltage protection circuit.

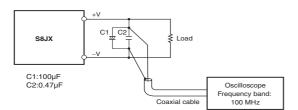
## Output Voltage Adjuster (V.ADJ)

- The output voltage adjuster (V.ADJ) may possibly be damaged if it is turned with unnecessary force. Do not turn the adjuster with excessive force.
- After completing output voltage adjustment, be sure that the output capacity or output current does not exceed the rated output capacity or rated output current.

# Ripple Noise Voltage

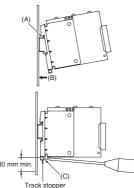
## (S8JX-G Series 300-W, 5 V and 600-W 5 V or 12 V Models)

The specified standard for the ripple voltage noise was measured with a measurement circuit that is based on JEITA standard RC-9131A.



## **DIN Rail-mounting**

To mount the Power Supply to a DIN Rail, pull down the rail stopper until you hear it clicks open, hook portion (A) of the Power Supply onto the DIN Rail, press the Power Supply in direction (B), and then push up the rail stopper to lock the Power Supply in place.



To dismount the Power Supply, pull down portion (C) with a flat-blade screwdriver and pull out the Power Supply.

# **Series Operation**

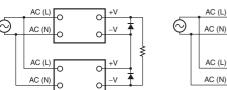
Two power supplies can be connected in series. The  $(\pm)$  voltage output can be accomplished with two Power Supplies.

#### Series Operation Correct

#### Output Voltage (±) Correct

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Note: 1. If the load is short-circuited, a reverse voltage will be generated inside the Power Supply. If this occurs the Power Supply may possibly deteriorate or be damaged. Always connect a diode as shown in the figure. Select a diode having the following ratings.

Туре	Schottky Barrier diode
Dielectric strength (VRRM)	Twice the rated output voltage or above
Forward current (IF)	Twice the rated output current or above

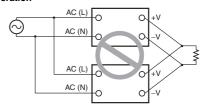
2. Although Products having different specifications can be connected in series, the current flowing through the load must not exceed the smaller rated output current.

## **Parallel Operation**

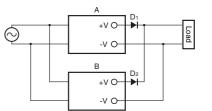
## 15-/35-/50-/100-/150-W Models

The Product is not designed for parallel operation.

#### Parallel Operation Incorrect



However, the following backup operation is possible. (Requires a mounting diode)



The same model should be used for power supplies A and B.

- Type: Schottky Barrier diode
- Withstand voltage (VRRM): Equivalent to or higher than the rated power supply output voltage
- Forward current (IF): Double the rated power supply output current or higher
- The output voltages of power supplies A and B output should be set higher only by a value equivalent to the drop in diode D<sub>1</sub> and D<sub>2</sub> forward voltages (V<sub>F</sub>).

In addition, since power loss occurs resulting from power supply output current ( $Iou\tau$ ) × diode forward voltage (VF), the diode should be cooled to ensure that its temperature is kept at the value indicated in the catalog or lower.

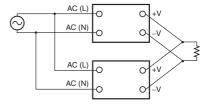
 Since power loss occurs due to load power and the diode, care should be exercised to ensure that the rated power (Rated output voltage × rated output current) for one power supply is not exceeded.

#### S8JX-G Series 300-/600-W Models

Parallel operation is possible under 80% of the rated value.

- To operate in parallel, set the switch to the "PARALLEL" side.
  The length and thickness of each wire connected to the load must be the same so that there is no difference in voltage drop value between the load and the output terminals of each Power Supply.
- It is desirable to set the same value on the voltage adjuster of each Power Supply.

#### Parallel Operation Correct



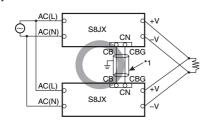
S8JX-(

-XP8S

#### S8JX-P Series 300-/600-W Models

Connecting CB terminal (5 pin on CN) and CBG terminal (6 pin on CN) enables the current balancing function and that allows the parallel operation at 80% or less of the total output capacity. Up to five Power Supplies can be connected.

- Use 2-conductor shielded cable as a connection wire (\*1).
- Adjust the output voltage difference of each Power Supply to 100 mV or less or 1% or less of the rated output voltage, whichever is smaller, using the output voltage adjuster (V. ADJ). During parallel operation, load current may be biased to one side,
- resulting in damage to internal components.Parallel operation is used to increase static capacity. The output voltage may drop with sudden load fluctuations.
- There may be steps in the rising waveform of the output voltage during parallel operation.
- Remove the standard supplied connector and prepare a connector separately.



#### In Case There Is No Output Voltage

#### S8JX-G Series S8JX-P Series 50-/100-/150-W Models

The possible cause for no output voltage may be that the overcurrent or overvoltage protection has operated. The internal protection may operate if a large amount of surge voltage such as a lightening surge occurs while turning ON the Power Supply.

In case there is no output voltage, please check the following points before contacting us:

- Checking overcurrent protected status: Check whether the load is in overcurrent status or is shortcircuited. Remove wires to load when checking.
- Checking overvoltage or internal protection:
- Turn the power supply OFF once, and leave it OFF for at least 7 minutes for S8JX-G series and 3 minutes for S8JX-P series. Then turn it ON again to see if this clears the condition.

#### S8JX-P Series 300-/600-W Models

There is a possibility that functions such as over-current protection, over-voltage protection or overheating protection are functioning. In addition, other possible causes include stoppage of the built-in fan and the remote control function (OFF). Please check the following 5 points and, if there is still no output voltage, contact your OMRON sales representative.

#### Method of Checking Over-current Protection

• Check (after removing load line) whether or not the load is in overcurrent status (including short circuits).

#### Method of Checking Over-voltage Protection

- Switch off the input power supply, and switch back on after at least 3 minutes have elapsed.
- Check whether or not the +S and -S terminals are open.

#### Method of Check Overheating Protection

• Switch off the input power supply and switch back on after allowing sufficient time for cooling.

#### **Checking for Built-in Fan Stoppage**

• Check whether or not the built-in fan has stopped. The fan is a replaceable component.

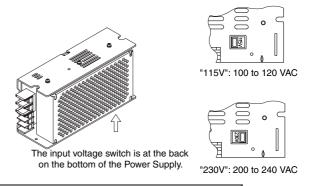
#### **Checking the Remote Control Function**

• Check whether or not the +RC and -RC terminals are in open status. Carry out the regulated connections.

#### Switching the AC Input Voltage between 100 and 200 VAC

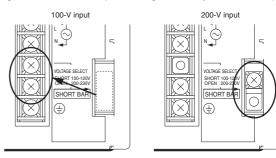
#### S8JX-G Series 150-W, 5-V Models

The input voltage can be switched between 100 V and 200 V by using the input voltage switch. Make the setting shown in the following figure for the voltage that will be used. (The input voltage is factoryset to 200 V.)



#### S8JX-G Series 300-/600-W Models

The input voltage can be switched between 100 and 200 V by shorting or opening the input voltage selection terminals. Set the required voltage as shown below. (The voltage is factory-set to 200 V.)



Short with the short bar

Remove the short bar and leave the terminals open.

Note: A 300-W model is shown above.

Common Precautions

# OMRON

## **Fan Replacement**

#### S8JX-G Series 300-W 5V, 12V/600-W Model

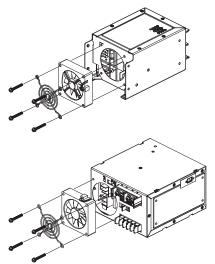
The service life of the fan is approximately 50,000 hours (at 25°C). The service life varies, however, depending on the ambient temperature or other surrounding environmental conditions such as dust. As a preventive maintenance measure, replace the fan within approx. two years if it is used at an ambient temperature of 40°C. Purchase the S82Y-JX FAN Replacement Fan (sold separately) to replace the fan.



Fan Set:

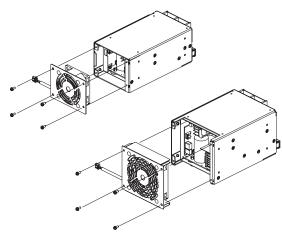
Fan (above), instruction sheet

Replace the fan as shown in the following illustration.



#### S8JX-P Series 300-/600-W Models

- Please contact your OMRON sales representative regarding fan replacement. Fans will be replaced at cost. In addition, a replacement fan unit (Model S82Y-JXP FAN) is available. Please use the curve below as a guideline for the timing of fan replacement.
- Fan replacements made by the customer fall outside the scope of safety standards.
- Replacement should be implemented as shown below.



S8JX-G

# **Typical Values**

# For Reference Only

## S8JX-G Series

Item			Power ratings	15 W	35 W	50 W	100 W	150 W	300 W	600 W
5-V models				75%	79%	80%	81%	83%	75%	78%
12-V models			80%	84%	85%	86%	85%	80%	83%	
Efficiency			15-V models	80%	84%					
24-V models		81%	84%	86%	88%	90%	88%	84%		
		48-V models	80%	84%	86%	89%	91%	88%	85%	
	Current		I	0.19 A	0.43 A	0.6 A	1.1 A	2.0 A	3.7 A	6.5 A
	Leakage current	000 1/ 1000		0.30 mA	0.30 mA	0.35 mA	0.30 mA	0.60 mA	0.7 mA	0.6 mA
Input	Inrush current (See Note 1.)	230 V input		40 A	40 A	40 A	37 A	42 A	35 A	35 A
			5-V models	0.35% (p-p)	0.35% (p-p)	0.60% (p-p)	1.25% (p-p)	1.40% (p-p)	0.55% (p-p)	1.80% (p-
	Ripplef =	f = 20 MHz measuring 15-V mod 24-V mod	12-V models	0.20% (p-p)	0.20% (p-p)	0.30% (p-p)	0.50% (p-p)	1.00% (p-p)	1.10% (p-p)	0.80% (p-
			15-V models	0.15% (p-p)	0.15% (p-p)					
			24-V models	0.10% (p-p)	0.15% (p-p)	0.15% (p-p)	0.25% (p-p)	0.45% (p-p)	0.75% (p-p)	0.60% (p
			48-V models	0.05% (p-p)	0.05% (p-p)	0.06% (p-p)	0.12% (p-p)	0.25% (p-p)	0.30% (p-p)	0.75% (p-
		5-V models 12-V models	5-V models	0.50% (p-p)	0.55% (p-p)	0.75% (p-p)	1.50% (p-p)	1.50% (p-p)	1.90% (p-p)	2.70% (p-
			0.30% (p-p)	0.35% (p-p)	0.35% (p-p)	0.70% (p-p)	1.25% (p-p)	1.90% (p-p)	1.30% (p-	
		f = 100 MHz measuring	15-V models	0.20% (p-p)	0.30% (p-p)					
		24-V m	24-V models	0.20% (p-p)	0.20% (p-p)	0.20% (p-p)	0.40% (p-p)	0.60% (p-p)	1.10% (p-p)	0.60% (p-
Output			48-V models	0.07% (p-p)	0.07% (p-p)	0.08% (p-p)	0.15% (p-p)	0.30% (p-p)	0.45% (p-p)	0.80% (p-
	Start up time	at 100% laad	5-V,12-V, 15-V models	200 ms	200 ms	210 ms	220 ms	250 ms	100 ms	110 ms
	(See note 1.)	at 100% load	24-V,48-V models	200 ms	200 ms	210 ms	220 ms	250 ms	350 ms	120 ms
		at 100% load	5-V models	200 ms	200 ms	190 ms	180 ms	54 ms	45 ms	45 ms
			12-V models	200 ms	200 ms	190 ms	170 ms	200 ms	50 ms	50 ms
	Hold time (See note 1.)		15-V models	210 ms	200 ms					
	(See note 1.)		24-V models	200 ms	200 ms	210 ms	170 ms	210 ms	50 ms	50 ms
			48-V models	190 ms	200 ms	200 ms	200 ms	210 ms	50 ms	50 ms

Note: 1. Refer to the Engineering Data on pages 16 to 20 for details.

2. The typical values indicate the values for an input condition of 230 VAC. All items are measured at a frequency of 50 Hz.

#### **S8JX-P Series**

Item			Power ratings	50 W	100 W	150 W	300W	600W
Efficiency 12-V m 24-V m		5-V models	78%	83%	85%			
		12-V models	81%	84%	85%			
		24-V models	81%	87%	88%	87.0%	86.6%	
		48-V models	85%	86%	88%			
	Current	230 V input		0.29 A	0.59 A	0.86 A	1.73A	3.42 A
Input	Leakage current			0.33 mA	0.59 mA	0.6 mA	0.68 mA	0.68 mA
	Inrush current (See Note 1.)			33 A	33 A	33 A	29.8 A	31.6 A
Output	Ripple	f = 20 MHz measuring	5-V models	0.32% (p-p)	1.40% (p-p)	1.32% (p-p)		
			12-V models	0.22% (p-p)	0.48% (p-p)	0.48% (p-p)		
			24-V models	0.17% (p-p)	0.36% (p-p)	0.28% (p-p)	0.27% (p-p)	0.20% (p-p)
			48-V models	0.08% (p-p)	0.21% (p-p)	0.23% (p-p)		
		f = 100 MHz measuring	5-V models	0.40% (p-p)	1.44% (p-p)	1.48% (p-p)		
			12-V models	0.22% (p-p)	0.50% (p-p)	0.55% (p-p)		
			24-V models	0.18% (p-p)	0.38% (p-p)	0.31% (p-p)	0.49% (p-p)	0.22% (p-p)
			48-V models	0.09% (p-p)	0.22% (p-p)	0.23% (p-p)		
	Start up time (See note 1.)	at 100% load	5-V models	460 ms	370 ms	360 ms		
			12-V models	460 ms	410 ms	410 ms		
			24-V models	480 ms	410 ms	430 ms	102 ms	70 ms
			48-V models	500 ms	420 ms	420 ms		
	Hold time (See note 1.)	at 100% load	5-V models	57 ms	42 ms	37 ms		
			12-V models	31 ms	34 ms	28 ms		
			24-V models	34 ms	35 ms	33 ms	34 ms	35.2 ms
			48-V models	44 ms	37 ms	33 ms		

Note: 1. Refer to the *Engineering Data* on pages 42 to 45 for details.

2. The typical values indicate the values for an input condition of 230 VAC. All items are measured at a frequency of 50 Hz.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

In the interest of product improvement, specifications are subject to change without notice.

# **Read and Understand this Catalog**

Please read and understand this catalog before purchasing the product. Please consult your OMRON representative if you have any questions or comments.

# Warranty and Limitations of Liability

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OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products.

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Know and observe all prohibitions of use applicable to this product.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

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## **CHANGE IN SPECIFICATIONS**

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## DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

#### PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

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Printed in Japan 1111





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Product	Code	Reference	Product link
Power & 50W / 5V / 10A With DIN rail housing	249068	S8JX- G05005CD	Buy on EAN
Power & 50W / 12V / 4.2A With DIN rail housing	249072	S8JX- G05012CD	Buy on EAN
Power & 50W / 24V / 2.1A With DIN rail housing	249076	S8JX- G05024CD	Buy on EAN
Power & 100W / 12V / 8,5A With DIN rail housing	249084	S8JX- G10012CD	Buy on EAN
Power & 100W / 24V / 4.2A With DIN rail housing	249088	S8JX- G10024CD	Buy on EAN
Power & 150W / 24V / 6.5A With housing	249091	S8JX-G15024C	Buy on EAN
Power & 150W / 24V / 6.5A With DIN rail housing	249092	S8JX- G15024CD	Buy on EAN
Power & 35W / 24V / 1.3A With DIN rail housing	307812	S8JX- G03524CD	Buy on EAN
Power & 300W / 24V / 14 A With DIN rail housing	307813	S8JX- G30024CD	Buy on EAN
Power & 600W / 24V / 27A With DIN rail housing	307814	S8JX-G60024C	Buy on EAN
Power & 15W / 24V / 0,65A With DIN rail housing	314654	S8JX- G01524CD	Buy on EAN
Power & 15W / 5V / 3A With DIN rail housing	324224	S8JX- G01505CD	Buy on EAN
Power & 15W / 12V / 1.3A With DIN rail housing	324225	S8JX- G01512CD	Buy on EAN
Power Supplies, Power supply, 35W, 100-240 VAC, 5VDC, 7 A DIN	324227	S8JX- G03505CD	Buy on EAN

Power & 35W / 12V / 3A With DIN rail housing	324228	S8JX- G03512CD	Buy on EAN
Power & 150W / 12V / 13A With Housing	352991	S8JX- G15012CD	Buy on EAN
Power & 50W / 24V / 2.1A With PFC DIN Rail housing	364878	S8JX- P05024CD	Buy on EAN
Power & 100W / 24V / 4.5A With PFC DIN Rail housing	364894	S8JX- P10024CD	Buy on EAN
Power & 150W / 24V / 6.5A With PFC DIN Rail housing	364910	S8JX- P15024CD	Buy on EAN
Power & 300W / 24V / 14A With PFC DIN Rail housing	364918	S8JX- P30024CD	Buy on EAN
Power & 600W / 24V / 27A With PFC DIN Rail housing	364921	S8JX- P60024CD	Buy on EAN
Power & 150W / 5V / 30A With PFC DIN Rail housing	364902	S8JX- P15005CD	Buy on EAN
Power & 150W / 12V / 13A With PFC DIN Rail housing	364906	S8JX- P15012CD	Buy on EAN
Power & 50W / 48V / 1.1A With PFC DIN Rail housing	364882	S8JX- P05048CD	Buy on EAN
Power & 50W / 24V / 2.1A	249074	S8JX-G05024	Buy on EAN
Power & 100W / 5V / 20A With Front housing	249079	S8JX-G10005C	Buy on EAN
Power & 150W / 48V / 3.3A With DIN rail housing	352987	S8JX- G15048CD	Buy on EAN
Power & 100W / 48V / 2.1A With DIN rail housing	352983	S8JX- G10048CD	Buy on EAN
Power & 600W / 48V / 13A With DIN rail housing	356120	S8JX-G60048C	Buy on EAN
Power & 100W / 5V / 20A DIN rail housing	249080	S8JX- G10005CD	Buy on EAN
Power & 100W / 24V / 4.5A With Front housing	249087	S8JX-G10024C	Buy on EAN
Power & 50W / 48V / 1.1A With DIN rail housing	352979	S8JX- G05048CD	Buy on EAN
Power & 35W / 48V / 0.75A With DIN rail housing	352975	S8JX- G03548CD	Buy on EAN
Power & 100W / 12V / with housing, DIN rail PFC and Class B	364890	S8JX- P10012CD	Buy on EAN
Power & 50W / 12V / with housing, DIN rail PFC and Class B	364875	S8JX- P05012CD	Buy on EAN
Monitoring relays, Electrofor Holder 5 pole	137185	BF-5	Buy on EAN
Power & 300W / 24V / 14 A With housing No DRA	352996	S8JX-G30024C	Buy on EAN
Power & 35W / 15V / 2.4A With DIN rail housing	324229	S8JX- G03515CD	Buy on EAN

Power & 300W / 48V / 7A With DIN rail housing	356117	S8JX- G30048CD	Buy on EAN
Power & 300W / 12V / 27A With DIN rail housing	356115	S8JX- G30012CD	Buy on EAN
Power & 600W / 12V / 53A With DIN rail housing	356119	S8JX-G60012C	Buy on EAN
Power & 600W / 5V / 120A With DIN rail housing	356118	S8JX-G60005C	Buy on EAN
Power & 15W / 15V / 1A DIN Rail housing	324226	S8JX- G01515CD	Buy on EAN