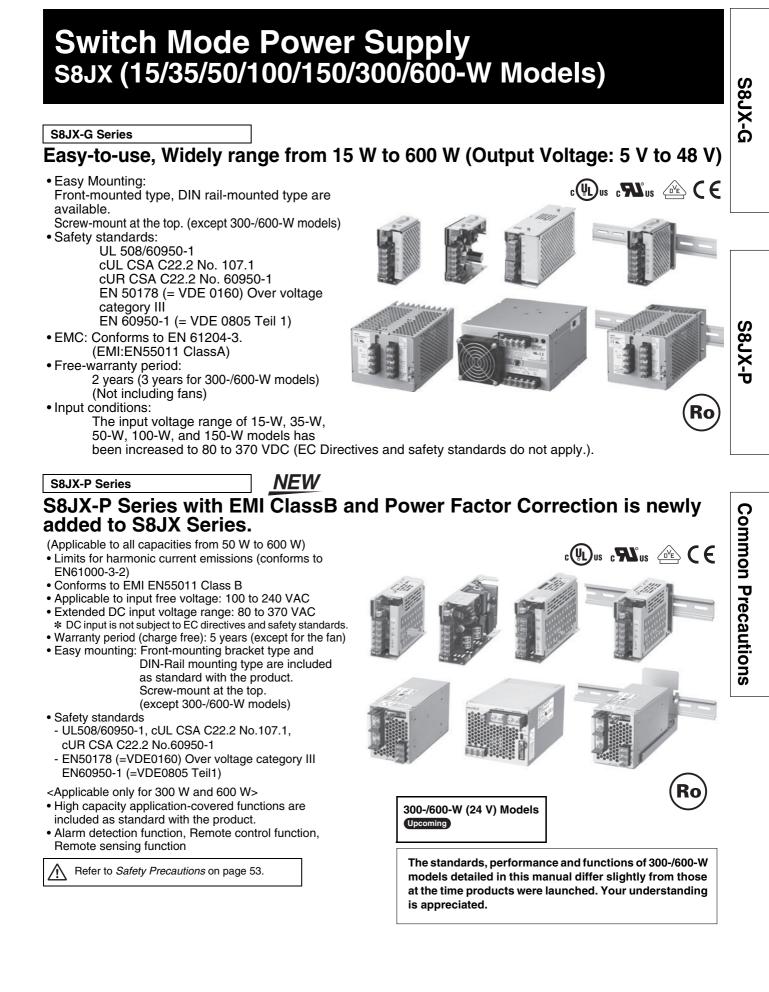
New Product

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.

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Ordering Information

List of Models

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

Conf	figuration	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
			35 W	5 V	7 A	S8JX-G03505
				12 V	3 A	S8JX-G03512
				15 V	2.4 A	S8JX-G03515
				24 V	1.5 A	S8JX-G03524
				48 V	0.75 A	S8JX-G03548
	Front mounting stat			5 V	10 A	S8JX-G05005
	Front-mounting *1		50 W	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 to 240 VAC (free) (80 to 370 VDC * 3) S8JX-G15005⊡: Switchable between 100 to 120 VAC and 200 to 240 VAC. (DC	100 W	12 V	8.5 A	S8JX-G10012
				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
n-frame Power				48 V	3.3 A	S8JX-G15048
plies				5 V	3 A	S8JX-G01505D
				12 V	1.3 A	S8JX-G01512D
		power cannot be	15 W	15 V	1 A	S8JX-G01515D
		input.)		24 V	0.65 A	S8JX-G01524D
				48 V	0.35 A	S8JX-G01548D
			35 W	5 V	7 A	S8JX-G03505D
				12 V	3 A	S8JX-G03512D
				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		50.14	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
			100.14/	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
			450.14	12 V	13 A	S8JX-G15012D
			150 W	24 V	6.5 A	S8JX-G15024D
				48 V	3.3 A	S8JX-G15048D

***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).

Con	figuration	Input voltage	Power ratings	Output voltage (VDC)	Output current	Model
				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
				24 V	1.5 A	S8JX-G03524C
				48 V	0.75 A	S8JX-G03548C
				5 V	10 A	S8JX-G05005C
	Front-mounting *1			12 V	4.2 A	S8JX-G05012C
			50 W	24 V	2.1 A	S8JX-G05024C
				48 V	1.1 A	S8JX-G05048C
			100 W	5 V	20 A	S8JX-G10005C
				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 (free) (80 to 370 VDC * 3) S8JX-G15005 Switchable between 100 to 120 VAC and 200 to 240 VAC. (DC power cannot be input.)		5 V	30 A	S8JX-G15005C
				12 V	13 A	S8JX-G15012C
			150 W	24 V	6.5 A	S8JX-G15024C
				48 V	3.3 A	S8JX-G15048C
				5 V	3 A	S8JX-G01505CD
			15 W	12 V	1.3 A	S8JX-G01512CD
				15 V	1 A	S8JX-G01515CE
				24 V	0.65 A	S8JX-G01524CD
				48 V	0.35 A	S8JX-G01548CD
averad Dawar			35 W	46 V 5 V	7 A	S8JX-G03505CD
overed Power upplies				12 V	3 A	S8JX-G03505CL
applies				12 V 15 V	2.4 A	S8JX-G03512CL
				24 V	1.5 A	S8JX-G03524CD
				48 V	0.75 A	S8JX-G03548CD
			50 W	46 V 5 V	10 A	S8JX-G05005CD
	DIN Rail-mounting *2			12 V	4.2 A	S8JX-G05005CL
				24 V	4.2 A 2.1 A	S8JX-G05012CL
				48 V	1.1 A	S8JX-G05024CL
			100 W	48 V 5 V	20 A	S8JX-G05048CE
				12 V	8.5 A	S8JX-G10005CL
				24 V 48 V	4.5 A 2.1 A	S8JX-G10024CE S8JX-G10048CE
				48 V 5 V	30 A	S8JX-G15005CD
				5 V 12 V	13 A	S8JX-G15005CL
			150 W	12 V 24 V	6.5 A	S8JX-G15012CL S8JX-G15024CL
				48 V 5 V	3.3 A	S8JX-G15048CE
					60 A	S8JX-G30005C
			300 W	12 V	27 A	S8JX-G30012C
				24 V 48 V	14A 7A	S8JX-G30024C S8JX-G30048C
	Front-mounting *1					
	-	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
		4		48 V	13A	S8JX-G60048C
				5 V	60 A	S8JX-G30005CD
	DIN Rail-mounting *2		300 W	12 V 24 V	27 A 14A	S8JX-G30012CD S8JX-G30024CD
			300 W			

 $\boldsymbol{*1}.$ 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).

Ratings, Characteristics, and Functions

		Input specification		100 to 240 V input		
Item		Power ratings *1	15 W	35 W		
Efficiency			68% min.	73% min.		
	Voltage *2		100 to 240 VAC (allowable range	ge: 85 to 264 VAC)		
	Voltage %2		80 to 370 VDC *9			
	Frequency *2		50/60 Hz (47 to 450 Hz)			
	Current *3	100 V input	0.4 A max.	1 A max.		
	Current %5	200 V input	0.25 A max. 0.6 A max.			
Input	Power factor					
mput	Harmonic current emis	sions				
	Leakage current *3	100 V input	0.5 mA max.			
	Leakage current 40	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	B-V models: ±10%)		
	Ripple *3		2% (p-p) max.			
	Input variation influence	ce	0.4% max. with AC input voltage	je		
Output *4	Load variation influence	ce	0.8% max. (0 to 100% load, rat	ted input voltage)		
	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	3	105% to 175% of rated load current, voltage drop, intermittent, automatic reset			
	Overvoltage protection *7		Yes			
	Overheat protection		No			
	Parallel operation		No (However, backup operation	n is possible; external diodes required.)		
	Series operation		Yes (For up to two Power Supp	blies; external diodes required.)		
	Protective circuit operation indicator		No			
	Ambient operating temperature		Refer to the derating curve in E condensation).	Engineering Data on page 16 (with no icing or		
	Storage temperature		-25 to 65°C (with no icing or condensation)			
	Ambient operating hun	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 Ω min. (between all outputs and all inputs/PE terminals) at 500 VDC			
	Vibration resistance		10 to 55 Hz, 0.375-mm single amplitude for 2 h each in X, Y, and Z directions			
	Shock resistance		150 m/s ² , 3 times each in $\pm X$, $\pm Y$, $\pm Z$ directions			
	Output indicator		Yes (Color: Green)			
	EMI	Conducted Emissions	Conforms to EN 55011 Group	1 Class A and based on FCC Class A *9		
	EMI	Radiated Emissions	Conforms to EN 55011 Group			
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 60950-1 (Recognition)		
	Approved standards *	9	cUL Listed: CSA C22.2 No.107 cUR: CSA C22.2 No. 60950-1			
			EN/VDE: EN50178 (= VDE 0160 (Terminal block: Based on DIN) Over voltage category III, EN 60950-1 (= VDE 0805 Teil 1) 50274 (VDE 0660-514))		
	SEMI		SEMI F47-0200 (200-VAC inpu	ut)		
	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 specif		n 100 to 240 V input			
Item		Power ratings *1	50 W	100 W		
		5-V Models	76% min.	76% min.		
		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 *9			
	Frequency *2		50/60 Hz (47 to 450 Hz)			
	Current *3	100 V input	1.4 A max.	2.5 A max.		
	Current 45	200 V input	0.8 A max.	1.5 A max.		
Input	Power factor		-			
	Harmonic current emis	sions	-			
	Leakage current *3	100 V input	0.5 mA max.			
		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	100()		
	Voltage adjustment rar	nge *5	-10% to 15% (with V. ADJ) (48-V models: 1	:10%)		
	Ripple *3		2% (p-p) max.			
Output did	Input variation influence		0.4% max. (with AC input voltage)			
Output *4	Load variation influend		0.8% max. (0 to 100% load, rated input voltage)			
	Temperature variation	Influence	0.05%/°C max. (at rated input and output) 500 ms max. (up to 90% of output voltage at rated input and output)			
	Startup time Hold time *3		20 ms min.			
	Overload protection *6		105% to 175% of rated load current, voltage drop, intermittent, automatic reset			
	Overvoltage protection		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 hur	nidity	25% to 85% (Storage humidity: 25% to 90%)			
	Dielectric strength		 3.0 kVAC for 1 min. (between all inputs and PE terminals; 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 in	. ,		
	Vibration resistance		10 to 55 Hz, 0.375-mm single amplitude for	2 h each in X, Y, and Z directions		
	Shock resistance		150 m/s ² , 3 times each in $\pm X$, $\pm Y$, $\pm Z$ directi	ons		
	Output indicator		Yes (Color: Green)			
	EMI	Conducted Emissions	Conforms to EN 55011 Group 1 Class A an			
Other		Radiated Emissions	Conforms to EN 55011 Group 1 Class A *9			
•		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 Conducted Disturbance	Conforms to EN61000-4-5 Conforms to EN61000-4-6			
		Voltage Dips/Short Interruptions	Conforms to EN61000-4-11			
		Voltage Dips/Short Interruptions	UL Listed: UL 508 (Listing), UL UR: UL 609	50-1 (Becognition)		
	Approved standards *	9	CUL Listed: CSA C22.2 No.107.1 cUR: CSA C22.2 No. 60950-1			
				e category III, EN 60950-1 (= VDE 0805 Teil 1) 5 0660-514))		
	SEMI		SEMI F47-0200 (200-VAC input)			
	Weight *8		300 g max.	550 g max.		
No When	1 11 1 11	these a built in DC DC convertor		startup and the Dower Cupply may not		

*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).

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		Input specification	100/200 V switchable	100 to 2	240 V input			
Item		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.				
Efficiency		24-V Models			86% min.			
		48-V Models			85% min.			
	Voltage *2		Switchable between 100 to 120 VAC (allowable range: 100 to 240 VAC (allowable range: 85 to 264 VAC) 85 to 132 VAC) and 200 to 240 VAC (allowable range: 170 to 264 VAC). 80 to 370 VDC *9					
	Frequency *2		50/60 Hz (47 to 450 Hz)					
	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	sions						
	Lookogo ourront #2	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		Yes					
	Voltage adjustment rar	nge *5	-10% to 15% (with V. ADJ)	(48-V models: ±10%)				
	Ripple *3	<u> </u>	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 voltage)					
	Temperature variation		0.05%/°C max. (at rated input and output)					
	Startup time	initiachice	500 ms max. (up to 90% of output voltage at rated input and output)					
		Hold time *3		20 ms min.				
Overload protection *6		3	105% to 175% of rated load current, voltage drop, automatic reset	105% to 175% of rated load current, voltage drop, intermittent, automatic reset				
	Overvoltage protection	*7	Yes					
dditional unctions	Overheat protection							
unctions	Parallel operation		No No					
	Series operation		-	upplies; external diodes requ	ired)			
	Protective circuit opera	tion indicator	No	applies, external diodes requ	lieu.)			
	Ambient operating tem		Refer to the derating curve in condensation).	n <i>Engineering Data</i> on page	16 (with no icing or			
	Storage temperature		-25 to 65°C (with no icing or	condensation)				
	Ambient operating hun	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 Ω min. (between all outputs and all inputs/PE terminals) at 500 VDC					
	Vibration resistance		10 to 55 Hz, 0.375-mm single amplitude for 2 h each in X, Y, and Z directions					
	Shock resistance		150 m/s ² , 3 times each in ±X, ±Y, ±Z directions					
	Output indicator		Yes (Color: Green)					
		Conducted Emissions	Conforms to EN 55011 Grou	up 1 Class A and based on F	CC Class A *9			
	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 EN61000-4-4					
	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 *		UL Listed: UL 508 (Listing), cUL Listed: CSA C22.2 No.1 cUR: CSA C22.2 No. 60950	107.1	ition)			
	0511		EN/VDE: EN50178 (= VDE 01 (Terminal block: Based on D	IN 50274 (VDE 0660-514))	EN 60950-1 (= VDE 0805 Teil 1			
	SEMI			SEMI F47-0200 (200-VAC				
	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	100/200 V	(Selected)		
Item		Power ratings *1	300 W	600 W		
		5V models	71% min.	72% min.		
Efficiency		12V models	75% min.	78% min.		
Enclency		24V models	82% min.	80% min.		
		48V models	82% min.	80% min.		
	Voltage *2		100 to 120 VAC (allowable range: 85 to 132 200 to 240 VAC (allowable range: 170 to 26 (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)			
	Power factor		-			
	Harmonic current emis	sions				
	Leakage current *3	100 V input	0.5 mA max.			
	Loundgo ourroint no	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 rai	nge *5	-10% to 15% (with V. ADJ) (48-V models:	±10%)		
·	Ripple *3		2.8% (p-p) max.(5V) *6 2% (p-p) max.(12V, 24V, 48V)	3.8% (p-p) max.(5V) *6 2% (p-p) max.(12V) *6 2% (p-p) max.(24V, 48V)		
Output *4	Input variation influence		0.4% max.	· · · · · ·		
- acpar 1.4	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; externa	al diodes required.)		
	Protective circuit oper		Yes (color: red) (5V, 12V) No (24V, 48V)	Yes (color: red)		
	Ambient operating ter	iperature	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%	6)		
	Dielectric strength		 3.0 kVAC for 1 min. (between all inputs and outputs; detection current: 25 mA) 2.0 kVAC for 1 min. (between all inputs and PE terminals; detection current: 25 mA) 1.0 kVAC for 1 min. (between all outputs and PE terminals; detection current: 25 mA) 			
	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 ² , 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		
Other		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			
	FMC	Electrical Fast Transient/Burst	Conforms to EN61000-4-4			
	EMS	Surge	Conforms to EN61000-4-5			
		Conducted Disturbance	Conforms to EN61000-4-5			
		Voltage Dips/Short Interruptions	Conforms to EN61000-4-11			
			UL UR: UL 508 (Recognition), UL 60950-1	(Recognition)		
			cUR: CSA C22.2 No. 60950-1	\·		
	Approved standards *	13	EN/VDE: EN50178 (= VDE 0160), Over voltag (Terminal block: Based on DIN 50274 (VDE			
	Weight *9		1,800 g max. (5V, 12V) 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.

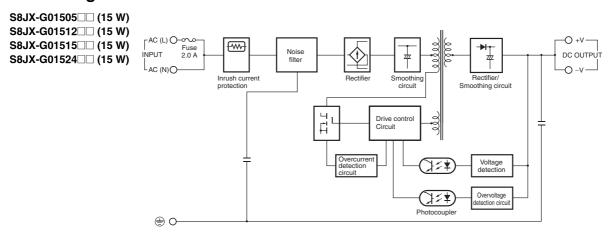
*9. The weight indicated is for Front-mounting Power Supply.

- ***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).

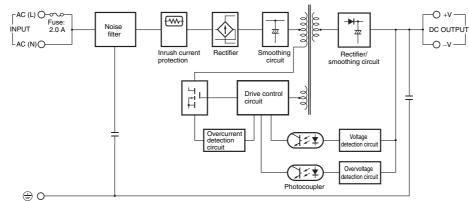
S8JX-G

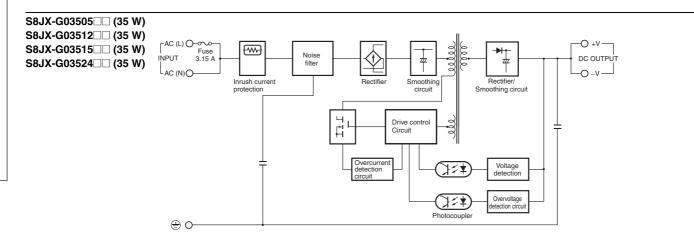
Connections

Block Diagrams



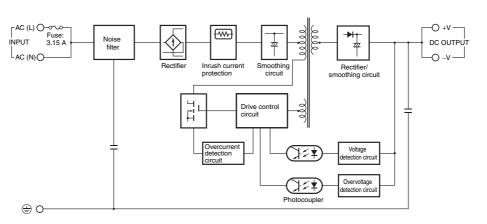
S8JX-G01548 (15 W)





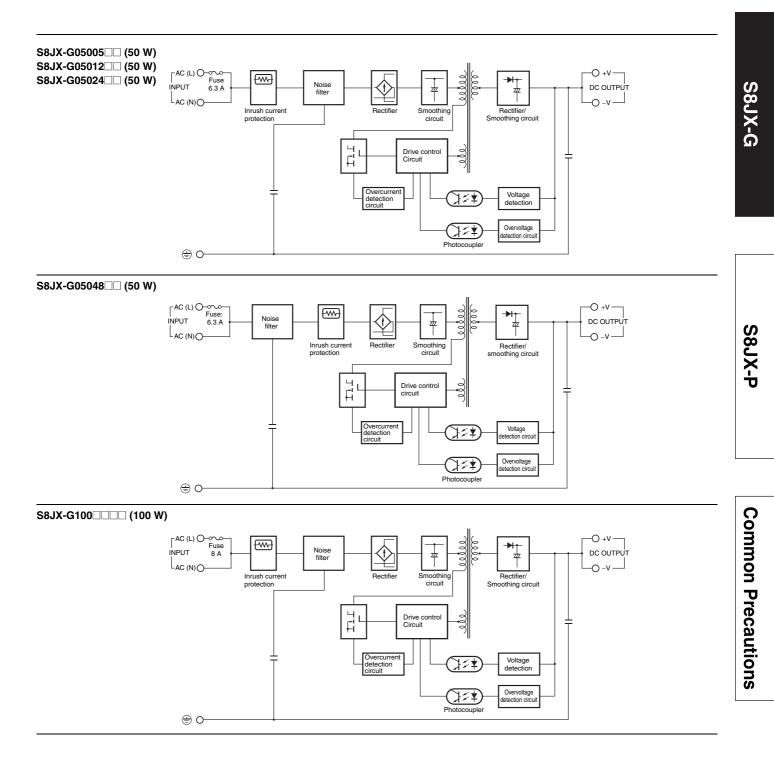
S8JX-G03548 (35 W)

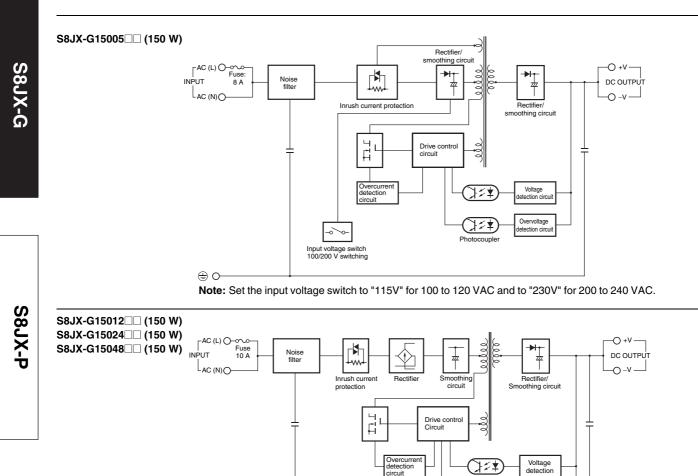
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S8JX-P

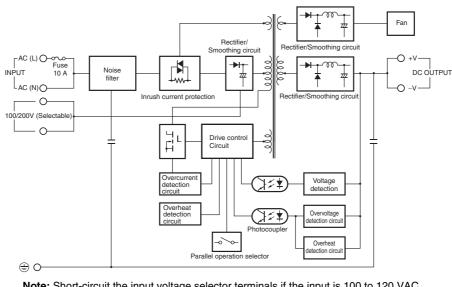






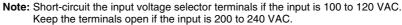
S8JX-G30005 (300 W) S8JX-G30012 (300 W)

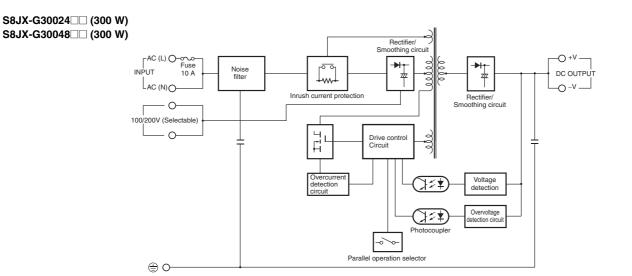
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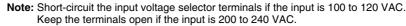


Overvoltage detection circu

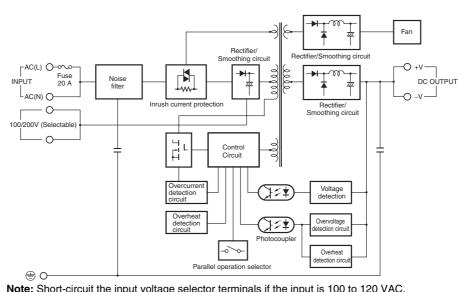
Photocouple

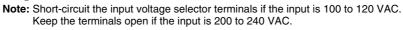




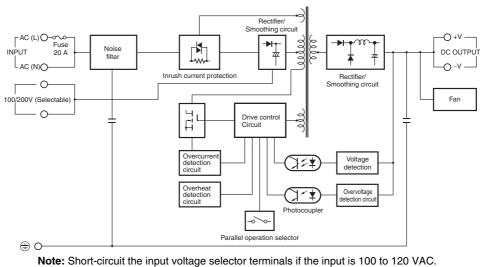


S8JX-G60005 (600 W) S8JX-G60012 (600 W) S8JX-G60048 (600 W)





S8JX-G60024 (600 W)



Keep the terminals open if the input is 200 to 240 VAC.

S8JX-G

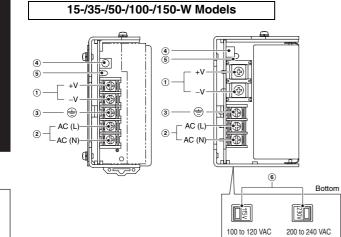
S8JX-P

Construction and Nomenclature

Nomenclature

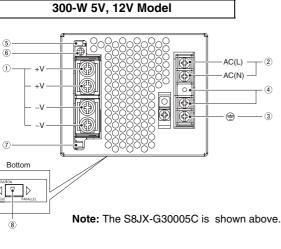
Note: The S8JX-G05024CD is

shown 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

*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. Note: The S8JX-G15005C is shown *2. This is the protective earth terminal specified in the safety standards. Always ground this terminal.



above.

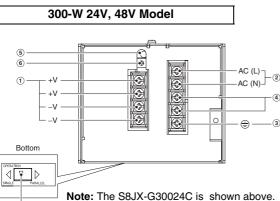
	300-W Model					
No.	Name	Function				
1	DC Output Terminals (+V), (-V)	Connect the load lines to these terminals.				
2	AC Input Terminals (L), (N)	Connect the input lines to these terminals. *1				
3	Protective Earth Terminal (PE) (🚖)	Connect the ground line to these terminals. *2				
4	Input Voltage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

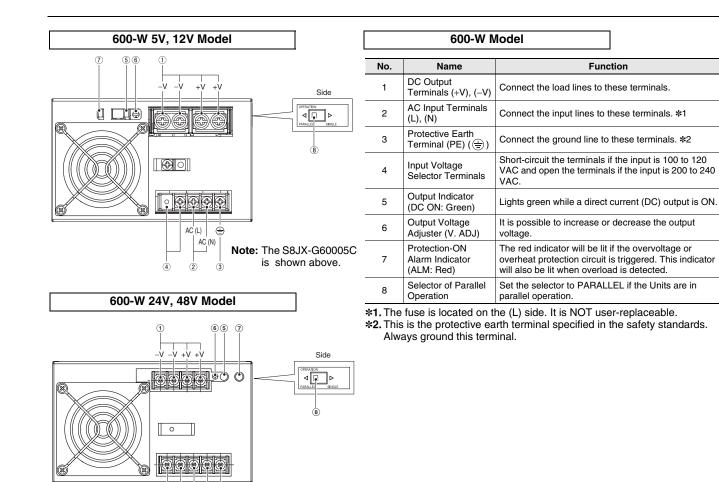
.....

4 💽 🗅 (5) 6 1 +V -V -V Bottom



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(8)



Reference Values

AC'(L) 🚊

Note: The S8JX-G60024C is shown above.

AC

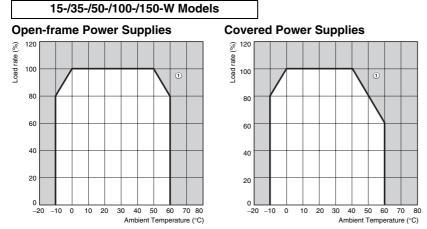
2 3

(4)

	Value
Reliability (MTBF)	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.

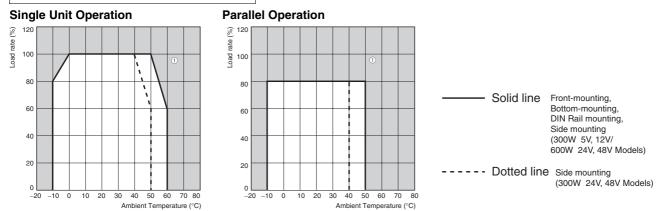
Engineering Data

Derating Curves (Standard Mounting)

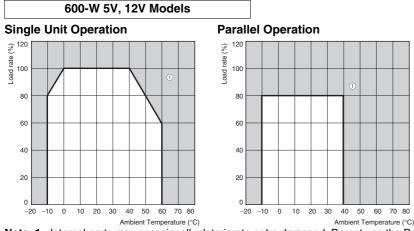


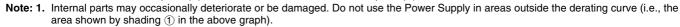
- Note: 1. Internal parts may occasionally deteriorate or be damaged. Do not use the Power Supply in areas outside the derating curve (i.e., the area shown by shading ① in the above graph).
 - 2. If there is a derating problem, use forced air-cooling.
 - 3. For Customers Using a DC Input
 - When using 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 50-W/150-W models: 0.9
 - 15-W and 100-W (24-V or 48-V output):

300-/600-W 24V, 48V 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. If there is a derating problem, use forced air-cooling.





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RAAM

Mounting

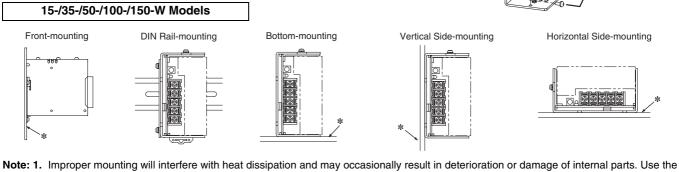
15-/35-/50-/100-/150-W Models

The following three mounting methods are possible.

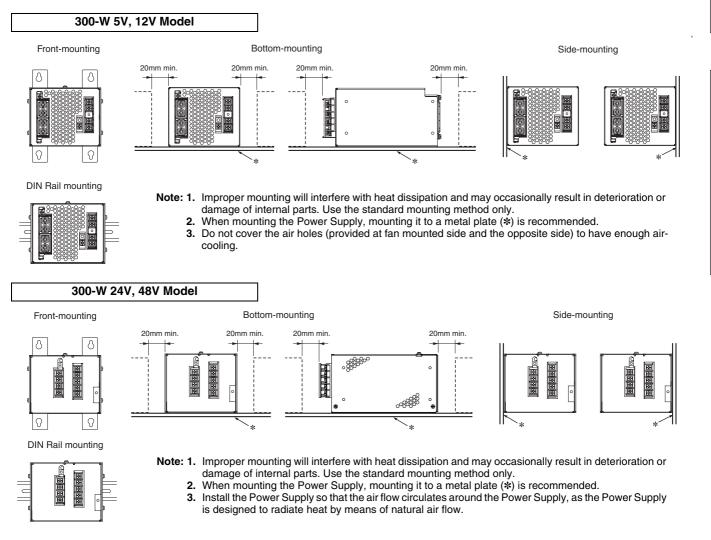
- (A). Front-mounting: Refer to Mounting Bracket Provided with Front-mounting Power Supplies (A) on page 25.
- B. Bottom-mounting
- ©. Side-mounting

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

Standard Mounting



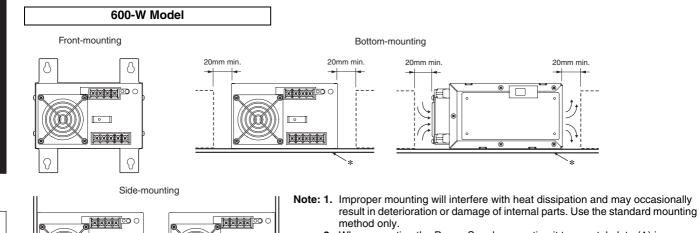
- standard mounting method only.
 - 2. When mounting the Power Supply, mounting it to a metal plate (*) is recommended.
 - 3. Install the Power Supply so that the air flow circulates around the Power Supply, as the Power Supply is designed to radiate heat by means of natural air flow.



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8 0000



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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-G

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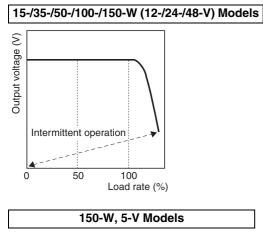
S8JX-P

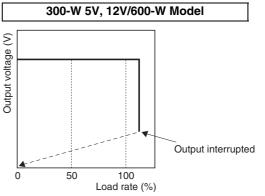
Overload Protection

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.

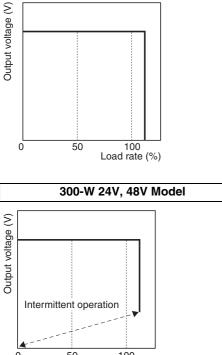
- Note: 1. When a load is connected that has a built-in DC-DC converter, the overload protection may operate at startup and the power supply may not start.
 - 2. Internal parts may occasionally deteriorate or be damaged if a short-circuited or overcurrent state continues during operation. 3. Internal 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)





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.



50 100 0

Load rate (%)

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Overvoltage Protection

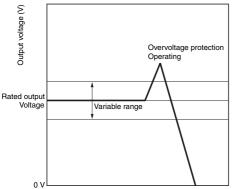
15-/35-/50-/100-/150-W Models

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)



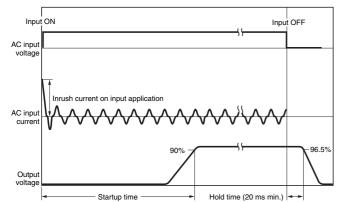
Note: Do not turn ON the power again until the cause of the overvoltage has been removed.

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.

S8JX-P

S8JX-G

300-W 5V, 1 If the internal temperatu OFF the output voltage minutes and then turnin Inrush Current, \$

75±0.5

75±0.5 ŧ

75±0



Front-mounting Models S8JX-G015 (15 W) S8JX-G015 C (15 W) S8JX-G035 (35 W) S8JX-G035 C (35 W) Panel mounting holes dimensions 10 max Surface screw mounting Labe Two, M3 3.5 0.6 Side 91 Mounting 75 82±0.5 Five, M3.8 0 3.5 di Two, M3 Cov Bottom 35.5± 7.5 Mounting 39.5 78±0. 8.5 3.5 3.5 dia 26.5 EH: ----Two, M3 (Depth 4 mm max.) 15 50±0. S8JX-G050 (50 W) S8JX-G050 C (50 W) Panel mounting holes dimensions 5 m 10 Surface screw mounting Two, M3 Side Mounting 92+0.5 (illa 3.5 dia Ţwo, M3 Bottom 4.5 92±0. Mounting 92±0.5 40± 4.5 3.5 dia Two, M3 (Depth 4 mm 20 65±0. S8JX-G100 (100 W) S8JX-G100 C (100 W) S8JX-G15024 (150 W) 10 max S8JX-G15024C (150 W) Panel mounting holes dimensions 150 W 5 max 100 W 100-150 W S8JX-G15048 (150 W) Surface screw mounting S8JX-G15048C (150 W)La Two M3 3.5 Side 75 Mounting ve, 8 141±0.5 3.5 dia C

Dimensions

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- 122±0.5

0

141±0.5

141±0.8

 $\overline{}$

48±

50±

Two, M3 (Depth 4 mm max.

3.5 dia

+ 16+

S8JX-G

S8JX-P

Two, M3

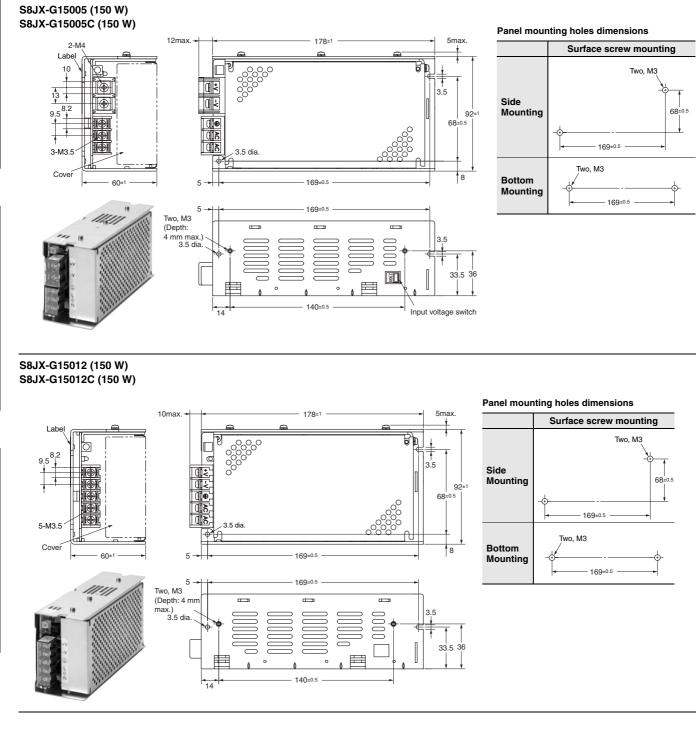
141±0.5

8 |

3 5

Bottom

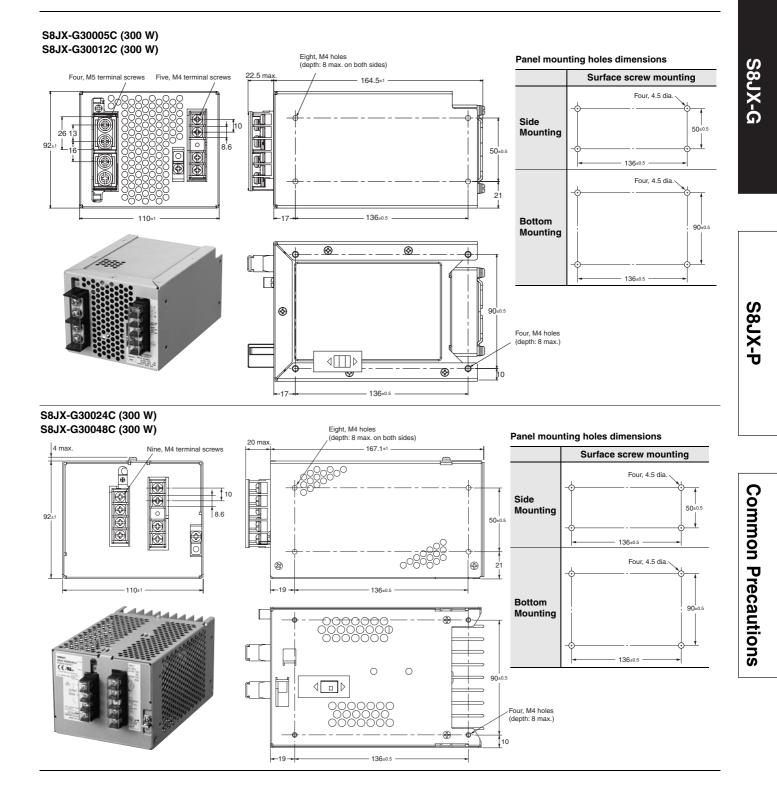
Mounting



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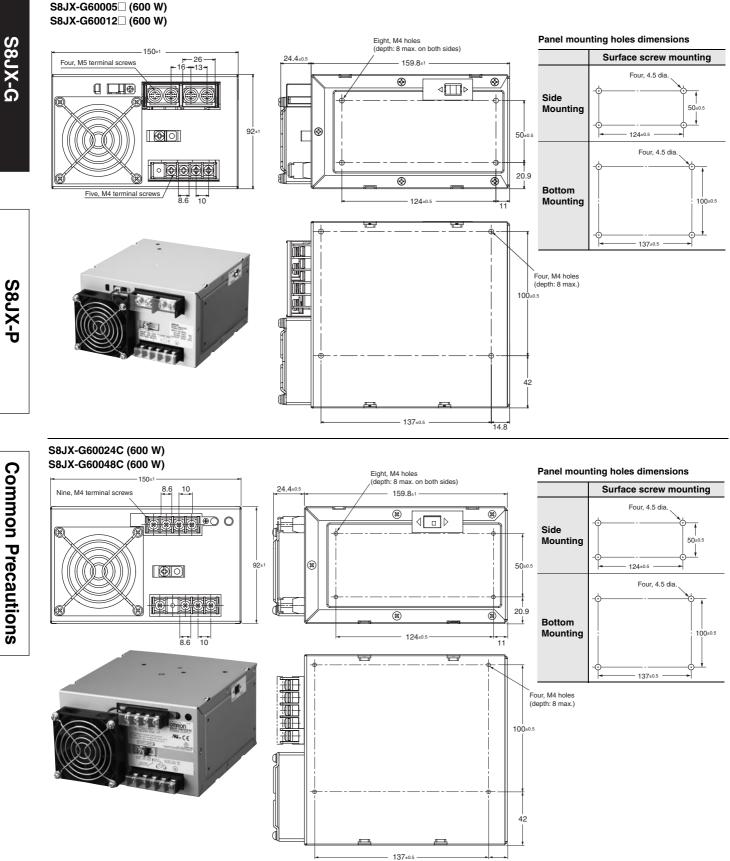
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Common Precautions



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14.8

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S8JX-P

Common Precautions

Mounting Bracket Provided with Front-mounting Power Supplies (A) 15-/35-/50-/100-/150-W Models S82Y-J00F Front-mounting **Front-mounting Method** Note: Mounting screws are Bracket Temporarily attach the enclosed mounting not provided. bracket as shown in the illustration on the right, Mounting Dimensions dimensions hook the holes (parts a) in the Power Supply on hooks on the mounting bracket (parts b), and 0 +11+ + 4.6 15±0.2 secure the Power Supply with two mounting screws. Two. M3 60 Mounting bracket wo. 3.5 Power Supply 60 20 20 -31.5 t = 1.0 20.5 Material: Stainless steel 300-/600-W Models Front-mounting Bracket (S82Y-J30F) **Dimensions with** Attaching the Mounting Brackets **Mounting Brackets** 10 dia. 300-W Model ,R2.5 300-W Model €Ĥ Æ \$ ᠿ 7.5 7.5 145±0.3 C 160 Two, 5 dia t = 1.6 92 ¢ Note: To provide ventilation space, the body 32±0.2 will shift forward by 21.6 mm from the mounting surface. ¢ ₽ Note: Mounting Brackets are provided in a set, one for the right side and one for the left side. Four. M4 600-W Model 600-W Model \$ \$ 145±0 0 00000 Note: To provide ventilation space, the body ₽ will shift forward by 23.6 mm from the mounting surface. 120±0.5 Four, M4

S8JX-P

Common Precautions

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

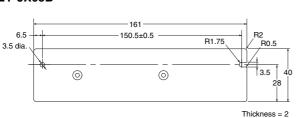
The mounting-hole pitch of mounting brackets A - I below is identical to that of our product S82J. These brackets can be used for switchover with the S82J-series.

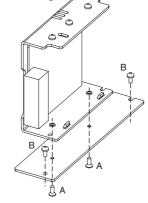
Models compatible with the S82J-series	Mounting Orientation	Products names	Model
50-W models		Mounting bracket A (For S8JX-G-series 50-W models)	S82Y-JX05B
100-W 24 V models	Underside mounting	Mounting bracket B (For S8JX-G-series 100-W 24 V models)	S82Y-JX10B
100-W 5 V, 12 V, 150-W 24 V models	_	Mounting 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

Note: Mounting brackets (A, B, C, D, E, F, G, H, I) are compatible with S82J mounting holes.

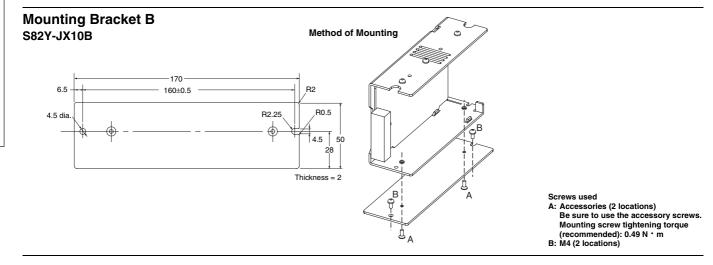
Mounting Bracket A S82Y-JX05B



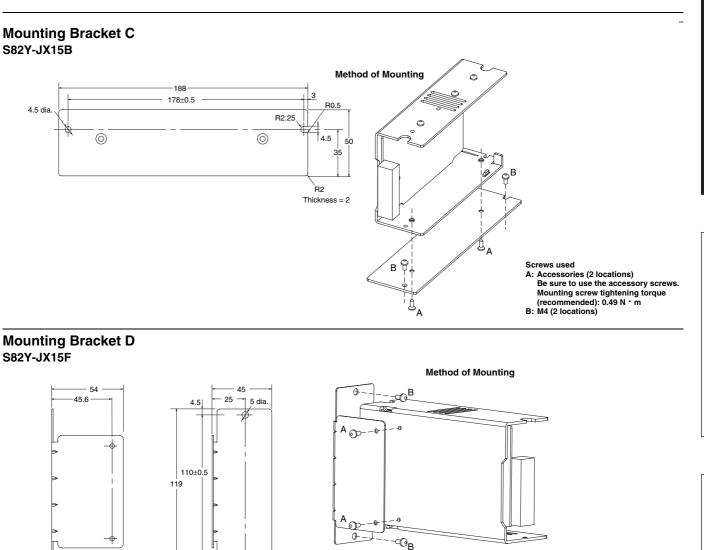


Screws used A: Accessories (2 locations)

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

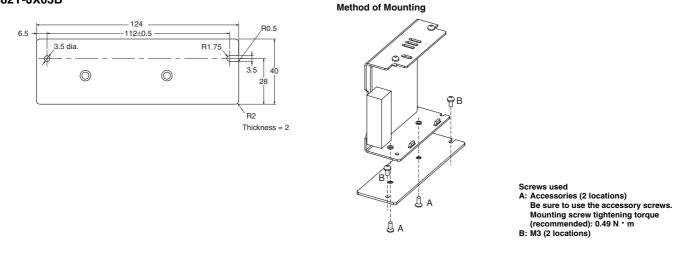


S8JX-P

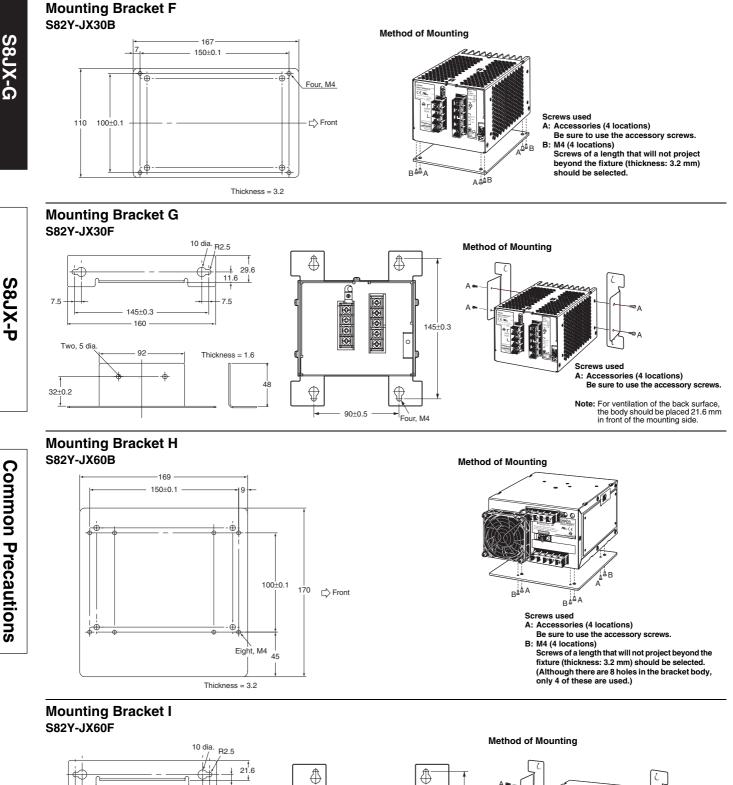


Screws used A: Accessories (2 locations) Be sure to use the accessory screws Mounting screw tightening torque (recommended): 0.49 N • m B: M4 (2 locations)

Mounting Bracket E S82Y-JX03B



Thickness = 1.6



92 145±0.3 Two, 5 dia П 0 Thickness = 3.2 00000 Screws used 32±0.2 A: Accessories (4 locations) Be sure to use the accessory screws \bigoplus ¢ Note: For ventilation of the back surface, the body should be placed 23.6 mm in front of the mounting side. 140+0.5Four. M4

10

6.6

7.5

145±0.3

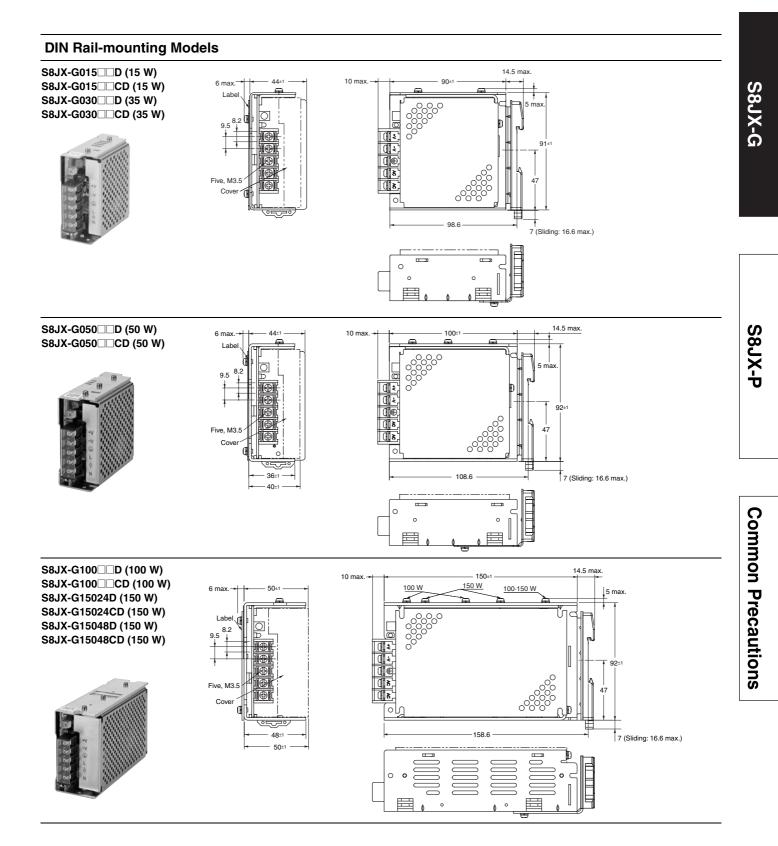
-160

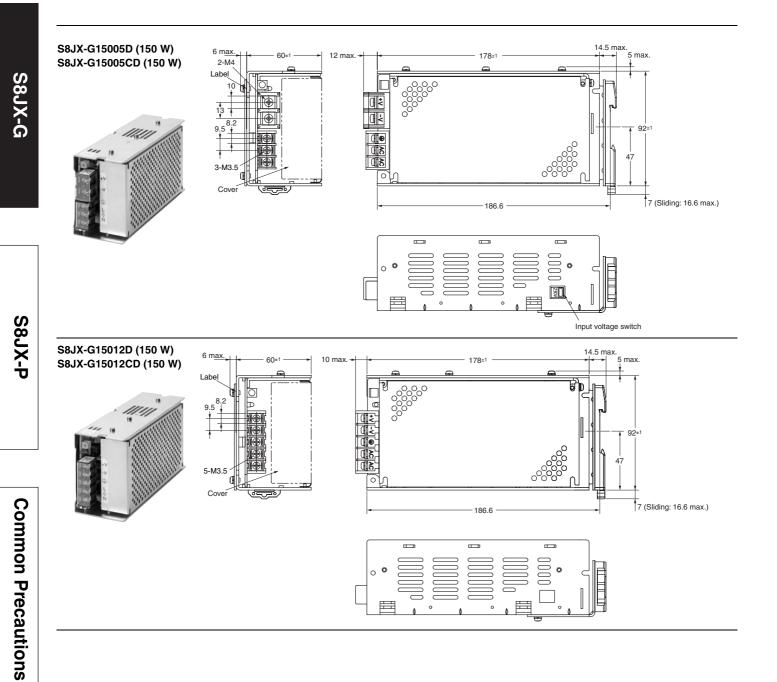
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7.5

S8JX-G

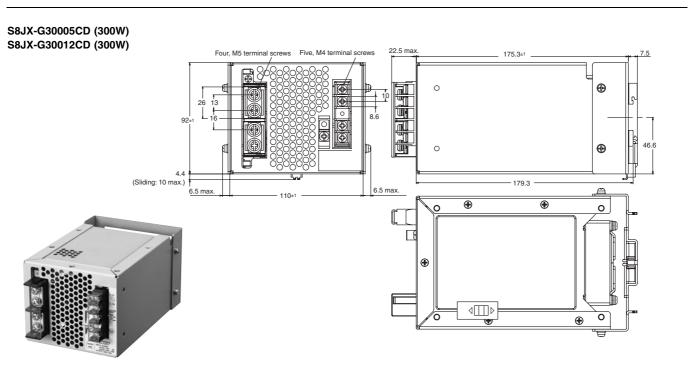
Common Precautions



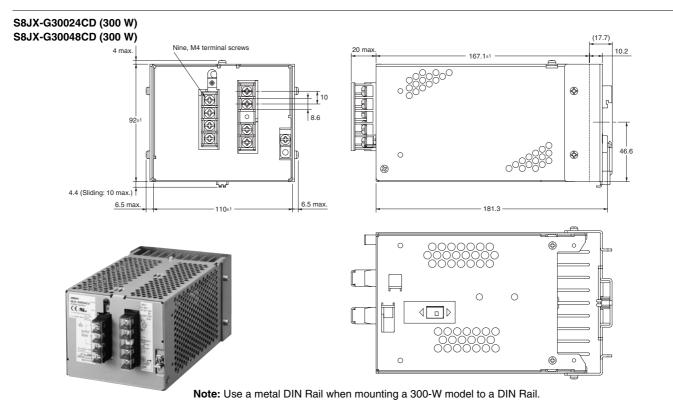


S8JX-P

Common Precautions



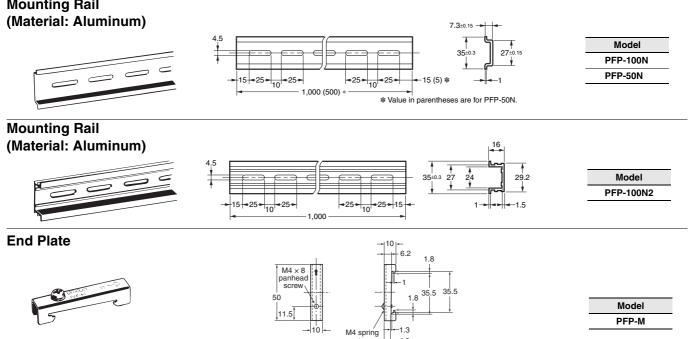




DIN Rail (Order Separately)

Mounting Rail

S8JX-G



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.

-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.

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)

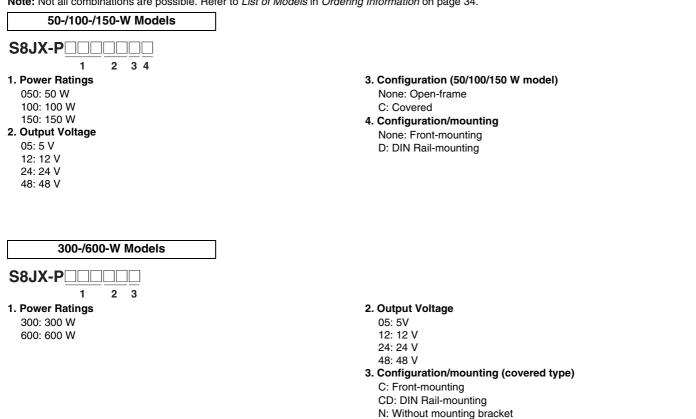
Model S82Y-JXFAN

S8JX-P

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.

	Confi	guration	Input voltage	Power ratings	Output voltage (VDC)	Output current	Model
_					5 V	10 A	S8JX-P05005
				50.144	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
		Frank manualized		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
				150 W	12 V	13 A	S8JX-P15012
				150 W	24 V	6.5 A	S8JX-P15024
C	Open-frame Power				48 V	3.3 A	S8JX-P15048
5	Supplies				5 V	10 A	S8JX-P05005D
				50 W	12 V	4.2 A	S8JX-P05012D
				50 W	24 V	2.1 A	S8JX-P05024D
				48 V	1.1 A	S8JX-P05048D	
					5 V	20 A	S8JX-P10005D
	DIN Rail-mounting *2	100 to 240 VAC (free)	100 W	12 V	8.5 A	S8JX-P10012D	
			100 W	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 * 1	(80 to 370 VDC * 3)	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
					5 V	20 A	S8JX-P10005C
				100 W	12 V	8.5 A	S8JX-P10012C
1					24 V	4.5 A	S8JX-P10024C
					48 V	2.1 A	S8JX-P10048C
					5 V	30 A	S8JX-P15005C
				150 W	12 V	13 A	S8JX-P15012C
				150 W	24 V	6.5 A	S8JX-P15024C
c	Covered Power				48 V	3.3 A	S8JX-P15048C
5	Supplies				5 V	10 A	S8JX-P05005CD
				50 W	12 V	4.2 A	S8JX-P05012CD
				50 W	24 V	2.1 A	S8JX-P05024CD
					48 V	1.1 A	S8JX-P05048CD
					5 V	20 A	S8JX-P10005CD
		DIN Boil mounting #0		100 W	12 V	8.5 A	S8JX-P10012CD
		DIN Rail-mounting *2		100 W	24 V	4.5 A	S8JX-P10024CD
					48 V	2.1 A	S8JX-P10048CD
					5 V	30 A	S8JX-P15005CD
				150.14	12 V	13 A	S8JX-P15012CD
_				150 W	24 V	6.5 A	S8JX-P15024CD
					48 V	3.3 A	S8JX-P15048CD

***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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OMRON

S8JX

Configuration		Input voltage	Power ratings	Output voltage (VDC)	Output current	Model
Covered Power Sup- plies	Front-mounting *1	100 to 240 VAC (free) (80 to 370 VDC *3)	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		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
	Without mounting brackets *2		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				
ltem		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 r	ange: 85 to 264 VAC)				
	Voltage *2		80 to 370 VDC *9					
Input	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	200 V input	0.9 min.	0.75 A IIIdx.	1.1 A IIIdA.			
	Harmonic current emis	alana	Conforms to EN61000-3-2					
	Harmonic current enns		0.5 mA max.					
	Leakage current *3 Inrush current (for a	100 V input						
		200 V input	1 mA max.					
		100 V input	17.5 A max.					
	cold start at 25°C) *3	200 V input	35 A max.					
	Noise filter		Yes					
	Voltage adjustment range *5		-10% to 15% (with V. ADJ) (48-V models: ±10%)					
	Ripple *3		2% (p-p) max. This shall be 3% (p-p) or less when the ambient temperature is less than 0°C (for only 5 V type					
+	Input variation influence		0.4% max. with AC input voltage					
Output *4	Load variation influence	ce	0.8% max. (0 to 100% load, rated input voltage)					
	Temperature variation	influence	0.05%/°C max. (at rated input and output)					
	Startup time		1.000 ms max.					
	Hold time *3		20 ms min.					
	Tiolu tille 45		105% to 160% of rated load					
Additional functions	Overload protection *6		intermittent, automatic reset					
	Overvoltage protection *7		Yes	l.				
	Overheat protection		No					
Tunetions	Parallel operation		No (However, backup operation is possible; external diodes required.)					
	Series operation		Yes (For up to two Power Supplies; external diodes required.)					
	Protective circuit oper	ation indicator	No					
	Ambient operating ten		Refer to the derating curve in <i>Engineering Data</i> on page 42 (with no icing or					
	01	<u> </u>	condensation).					
	Storage temperature	·	-25 to 75°C (with no icing or condensation)					
	Ambient operating humidity		25% to 85% (Storage humidity: 25% to 90%)					
	Dielectric strength		 3.0 kVAC for 1 min. (between all inputs and outputs; detection current: 20 mA) 2.0 kVAC for 1 min. (between all inputs and PE terminals; detection current: 20 mA) 1.0 kVAC for 1 min. (between all outputs and PE terminals; detection current: 20 mA) 					
	Insulation resistance		100 M Ω min. (between all outputs and all inputs/PE terminals) at 500 VDC					
	Vibration resistance	Vibration resistance		10 to 55 Hz, 0.375-mm single amplitude for 2 h each in X, Y, and Z directions				
	Shock resistance		150 m/s², 3 times each in ±X, ±Y, ±Z directions					
	Output indicator		Yes (Color: Green)					
		Conducted Emissions	Conforms to EN 55011 Group 1 Class B and based on FCC Class B *9					
	EMI	Radiated Emissions	Conforms to EN 55011 Group 1 Class B and based on FCC Class B *9 Conforms to EN 55011 Group 1 Class B *9					
Other		Electrostatic Discharge		14 1 01033 0 1.3				
	EMS	<u>_</u>	Conforms to EN61000-4-2					
		Radiated Electromagnetic Field	Conforms to EN61000-4-3					
		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 60950-1 (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 voltage category III, EN 60950-1 (= VDE 0805 Teil (Terminal block: Based on DIN 50274 (VDE 0660-514))					
	SEMI		SEMI F47-0706 (200-VAC input)					
	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).

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	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 264 VAC) 80 to 370 VDC *8				
	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.				
put	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	200 V input	35 A max.				
	Noise filter	· ·	Yes				
	Voltage adjustment rar	nge *5	-10% to 15% (with V. ADJ)				
	Ripple *3		2% (p-p) max.				
	Input variation influence	ce	0.4% max.				
utput *4	Load variation influence		0.8% max. (0 to 100% load, rated input v	oltage)			
	Temperature variation		0.05%/°C max.				
	Startup time		1.000 ms max.				
	Hold time *3		20 ms min.				
	Overload protection *6	3	105% to 160% of rated load current, voltage	ge drop, intermittent, automatic reset.			
	Overvoltage protection		Yes				
Additional functions	Overheat protection		Yes				
	Parallel operation		Yes (up to 5 Power Supplies)				
	Series operation		Yes (For up to two Power Supplies; exter	real diadas required)			
	Protective circuit operation	ation indicator	Yes (color: red)	That diodes required.)			
	Ambient operating tem		. ,	Data on page 42 (with no icing or condensation			
	Storage temperature	perature	-25 to 75°C (with no icing or condensation				
	Ambient operating hun	aidity	25% to 85% (Storage humidity: 25% to 9	,			
	Dielectric strength	indity	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: 100 mA) 100 VAC for 1 min. (between all outputs and RC terminals; detection current: 100 mA) 500 VAC for 1 min. (between all outputs and ALM 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/s², 3 times each in ±X, ±Y, ±Z directions *11				
	Output indicator		Yes (Color: Green)				
		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			
Julier		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				
	voltage Dips/Short interfuptions			1 (Recognition)			
			UL UR: UL 508 (Recognition), UL 60950-1 (Recognition) cUR: CSA C22.2 No.107.1, CSA C22.2 No. 60950-1				
	Approved standards *8		EN/VDE: EN50178 (= VDE 0160) Over voltage category III *9 , EN 60950-1 (= VDE 0805 Teil 1) *9 (Terminal block: Based on DIN 50274 (VDE 0660-514))				
	SEMI		SEMI F47-0706 (200-VAC input)				
	Weight		1,200 g max. *10 1,800 g max. *10				

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- *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.

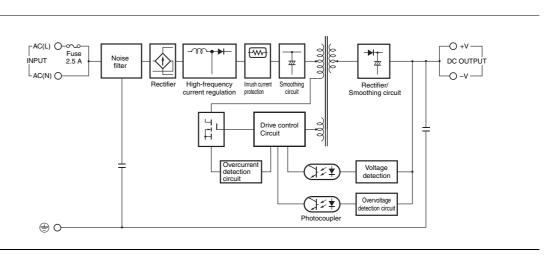
S8JX-G

S8JX-P

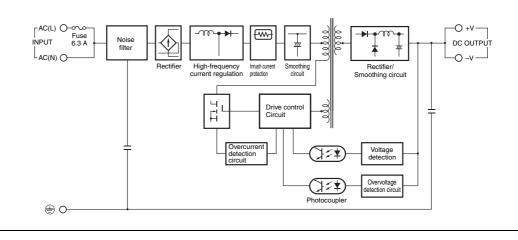
Connections

Block Diagrams

S8JX-P050 (50 W)

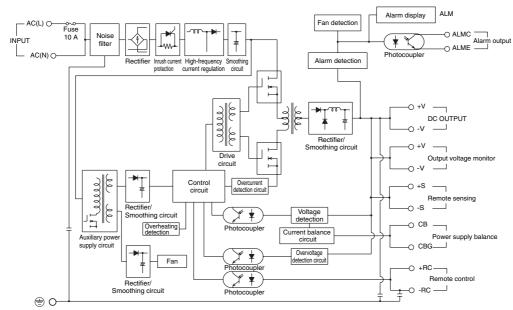


S8JX-P100 (100 W) S8JX-P150 (150 W)

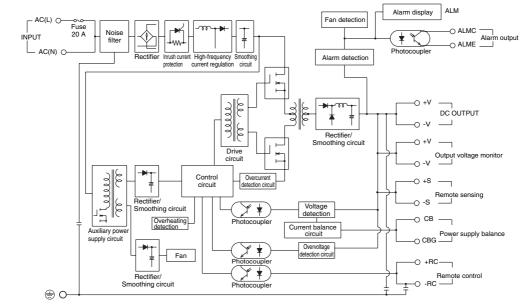


Common Precautions

S8JX-P300 (300 W)



S8JX-P600 (600 W)



S8JX-P

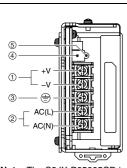
S8JX-G

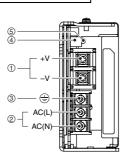
Construction and Nomenclature

300-W Models

50-/100-/150-W Models

Nomenclature





Note: The S8JX-P05005CD is shown above.

Note: The S8JX-P15005C is shown above.

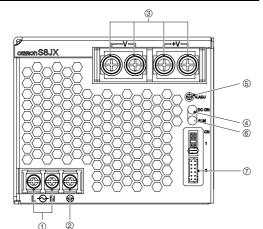
No.	Name	Function		
1	DC Output Terminals (-V), (+V)	Connect the load lines to these terminals.		
2	AC Input Terminals (L), (N)	Connect the input lines to these terminals. *1		
3	Protective Earth Terminal (PE) (🚖)	Connect the ground line to these terminals. *2		
4	Output Voltage Adjuster (V. ADJ)	It 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.		

*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.

Function

Name

5	No.	
omeon S8JX	1	Input T
	2	Protect
	3	DC Ou
	4	Output
	5	Output
	6	Alarm i
Note: The S8JX-P30024N is shown above.		Signal
600-W Models		



Note: The S8JX-P60024N is shown above.

Reference Values

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 $*3$ 11 $\square \square \square$ 12 9 $\square \square \square$ 10 7 $\square \square \square$ 8 5 $\square \square \square$ 4 1 $\square \square \square$ 2 CN 1/2	 Output voltage monitor terminal (+V) Remote sensing terminal (+S) Output voltage monitor terminal (-V) Remote sensing terminal (-S) Current balance terminal (CB) Current balance ground terminal (CBG) Remote control terminal (+RC) Remote control terminal (-RC) (Not connected) (Not connected) Alarm detection output terminal (ALMC) (Collector side) Alarm detection output terminal 				
		(ALME) (Emitter side)				

*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.

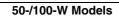
Never connect a load to the output voltage monitor terminal (+V, -V).

nelelence 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.

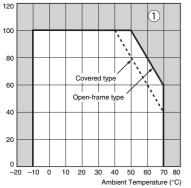
S8JX-G

Engineering Data

Derating Curves (Standard Mounting)



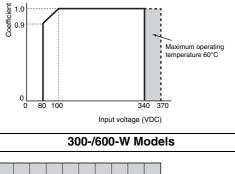
Front-mounting, DIN Rail mounting, Bottom-mounting, Side-mounting

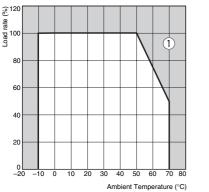


- Note: 1. Internal parts may occasionally deteriorate or be damaged. Do not use the Power Supply in areas outside the derating curve (i.e., the area shown by shading (1) in the above graph). 2. If there is a derating problem, use forced air-cooling.
 - (For Customers using 100-W type for a DC Input) When using an input voltage of less than 100 VDC, reduce 3. the load calculated with the above derating curve by at least the following coefficients.

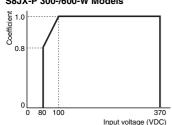
When using a voltage exceeding 340 VDC, the ambient temperature should be 60°C or less.

S8JX-P 100-W Models



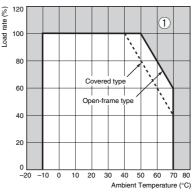


- Note: 1. Internal parts may occasionally deteriorate or be damaged. Do not use the Power Supply in areas outside the derating curve (i.e., the area shown by shading ① in the above graph). 2. The ambient temperature is defined at a location 50 mm
 - forward from the center of the front surface of the product.
 - (For Customers using 300-/600-W type for a DC Input) 3. Reduce the load calculated with the above derating curve by at least the following coefficients. S8JX-P 300-/600-W Models

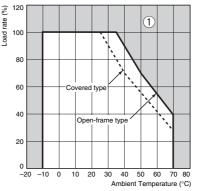


150-W Models

Front-mounting, DIN Rail mounting, Bottom-mounting



Horizontal-side-mounting

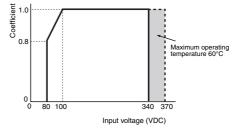


- Note: 1. Internal parts may occasionally deteriorate or be damaged. Do not use the Power Supply in areas outside the derating curve (i.e., the area shown by shading ① in the above graph). 2. If there is a derating problem, use forced air-cooling.

 - (For customers using 150-W type for a DC Input) 3 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 150-W Models



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(%)

-oad rate

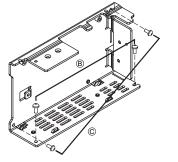
OMRON

Mounting

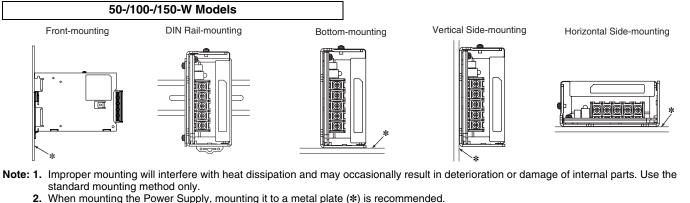
50-/100-/150-W Models

The following three mounting methods are possible.

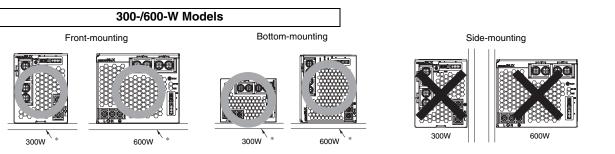
- (A). Front-mounting: Refer to Mounting Bracket Provided with Front-mounting Power Supplies (A) on page 52.
- (B). Bottom-mounting
- ©. Side-mounting
- Note: Additional mounting methods are also available using DIN Rail-mounting models.



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.

S8JX-P

S8JX-G

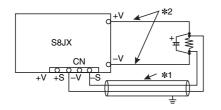
S8JX-0

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.

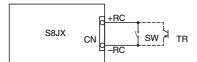


- Note: 1. Use a two-core shield wire for connection line (*1).
 - 2. If the voltage drop on a load line (*2) is large, the output voltage of the power supply may rise by the voltage drop amount and activate the overvoltage protection. Therefore, be sure to use as thick a wire as possible.
 - 3. Be sure 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.



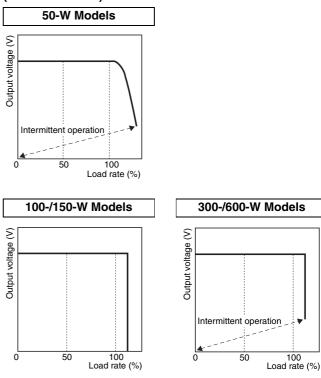
- Note: 1. The alarm detection function monitors the voltage at the Power Supply output end. To check an accurate voltage, measure a voltage at the load end.
 - 2. Remove the standard supplied connector and prepare a connector separately.

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)



ΔΔ

Common Precautions

S8JX-G

S8JX-P

Overvoltage Protection

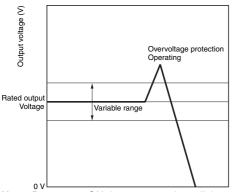
50-/100-/150-W Models

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.

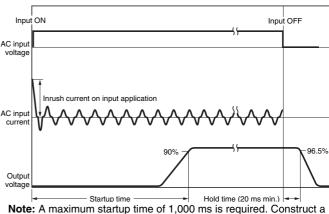
- t1 \leq 10 s • lp \leq rated peak current • lave \leq rated current Duty= $\frac{t1}{t1+t2} \times 100 \, [\%] \leq 35\%$ (180 to 240 VAC) [A]
- Note: 1. Do not hold peak load current over 10 seconds. In addition, you should not use duty cycle under conditions beyond above figure. It may cause damage 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



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

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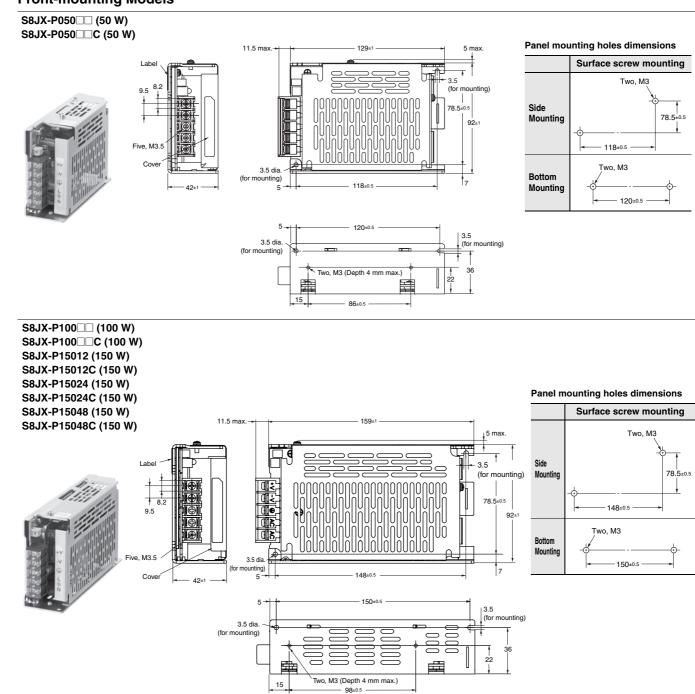


S8JX-G

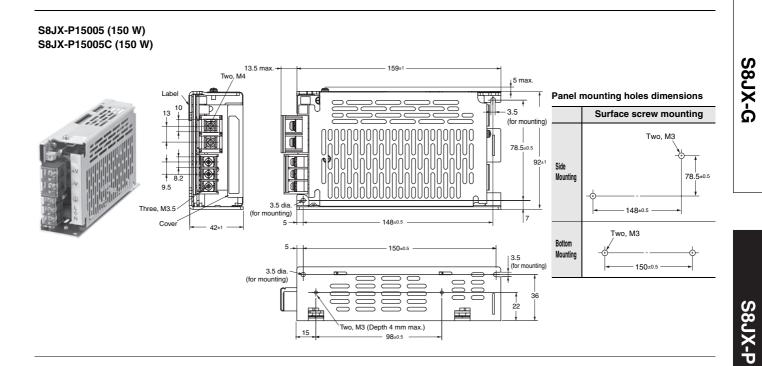
S8JX-P

Common Precautions

Dimensions



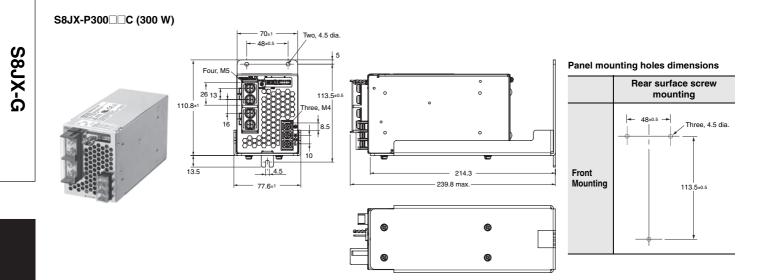
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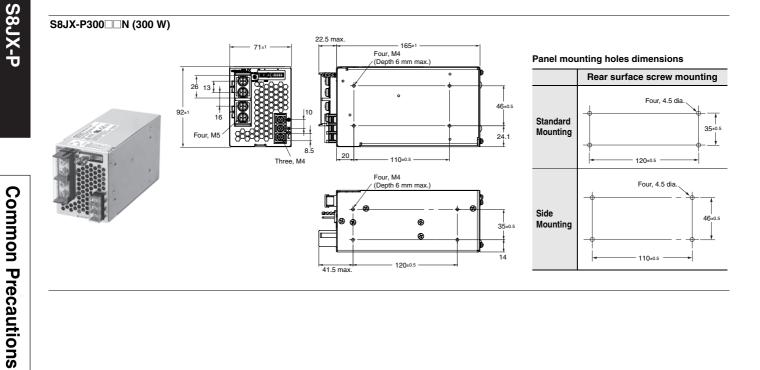


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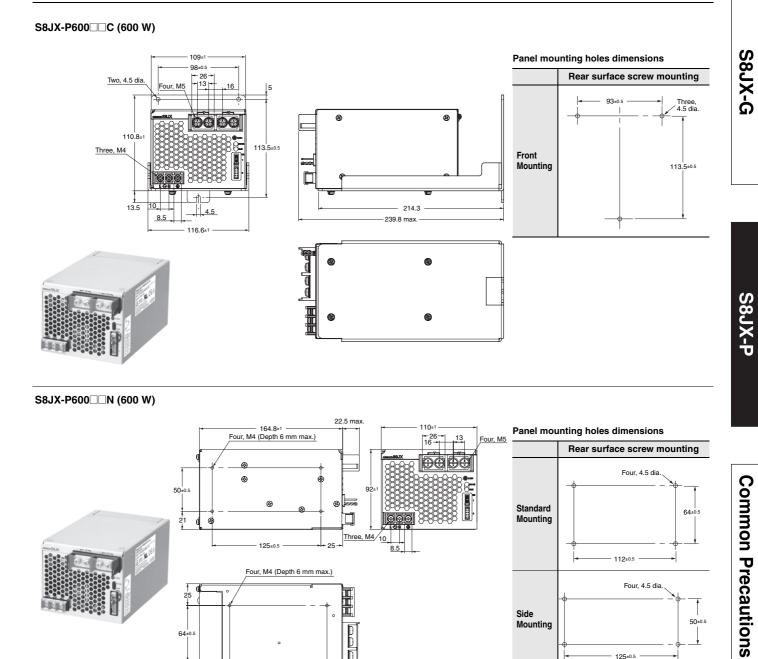
S8JX





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S8JX



D

40.5 max

- 112±0.5

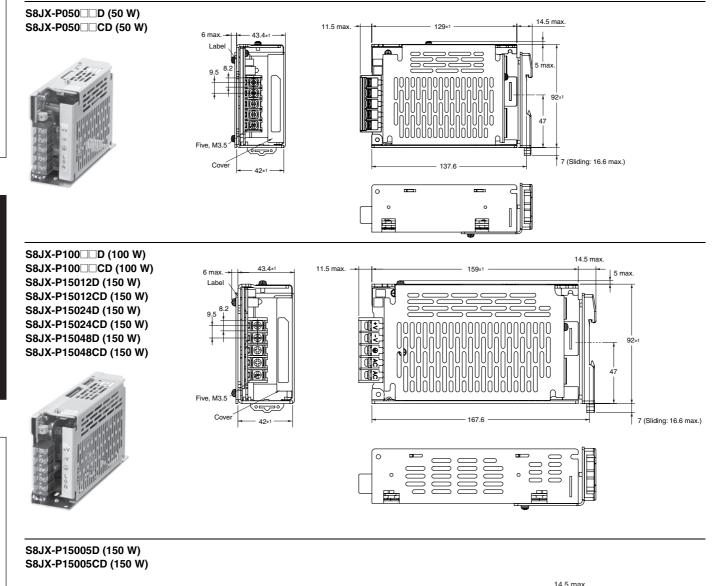


125±0.5

S8JX-G

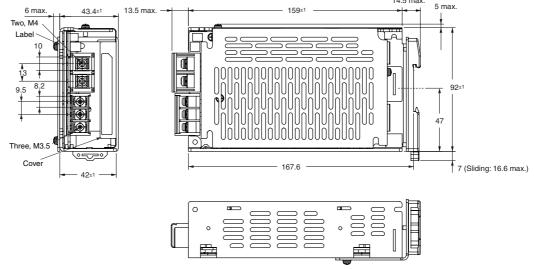
S8JX-P

DIN Rail-mounting Models

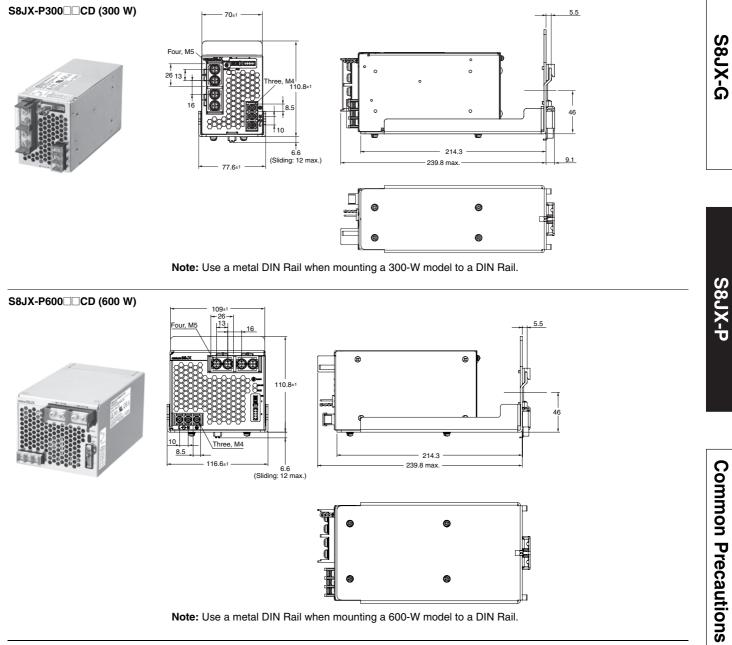


Common Precautions





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

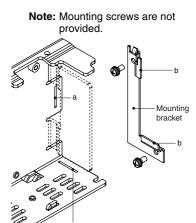
Mounting Bracket Provided with Front-mounting Power Supplies (A)

S82Y-J00F Front-mounting Frances Franc

 Dimensions
 Mounting dimensions
 Dimensions
 How the bracket as shown hook the holes (particular) hooks on the mound secure the Power screws.

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.



Model

PFP-M

DIN Rail (Order Separately)

Mounting Rail

Material: Stainless steel

60

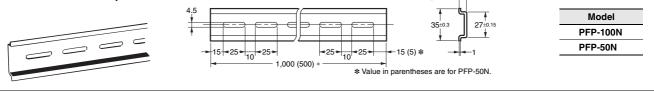
5

t = 1.0

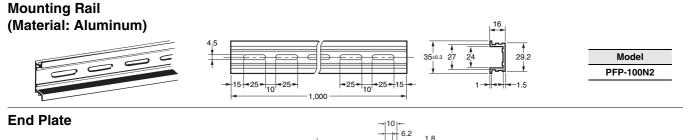
+31.5

20.5

(Material: Aluminum)



7.3±0.15





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

M4 × 8 panhea

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)

OMRON

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

S8JX-P

S8JX-G

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.

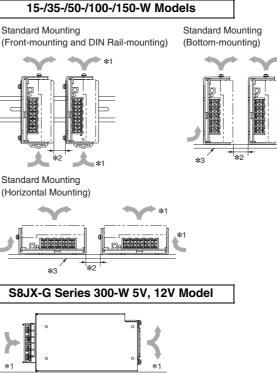


Minor electric shock, fire, or Product failure may occasionally occur. Do not allow any pieces of metal or conductors or any clippings or cuttings resulting from installation work to enter the Product.

Precautions for Safe Use

Mounting

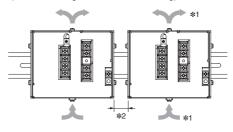
- Take adequate measures to ensure proper heat dissipation to increase the long-term reliability of the Product.
- The 300 W 24V, 48V models of S8JX-G series are designed to radiate heat by means of natural air-flow. Be sure to allow convection in the atmosphere around devices when mounting. Do not use 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).



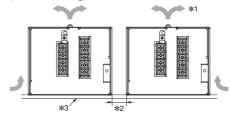
S8JX-G Series 300-W 24V, 48V Model

Standard Mounting

(Front-mounting and DIN Rail-mounting)



Standard Mounting (Bottom-mounting)

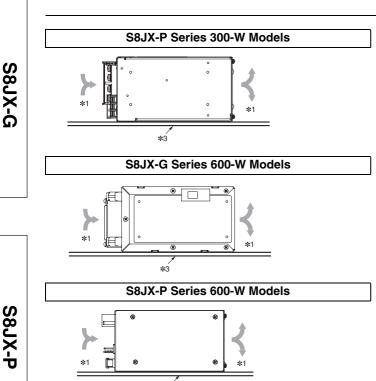


*1. Convection of air

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

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***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 ²) 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 ²) UL-certified temperature of at least 60°C or 60/75°C			
	Input side	AWG12 to AWG16 (a cross-section of 1.309 to 3.309 mm ²) UL-certified temperature of at least 60°C or 60/75°C			
150 W at 5 V	Output side	AWG8 to AWG14 (a cross-section of 2.081 to 8.368 mm ²) UL-certified temperature of at least 60°C or 60/75°C			
S8JX-G series 300W 5V, 12V	Input side	AWG12 to AWG20 (a cross section of 0.517 to 3.309 mm ²) 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 ²) 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 ²) UL-certified temperature of at least 60°C or 60/75°C			

The rated current for the output terminals on the S&JX-G30005□, S&JX-G30012□, S&JX-G60005□, S&JX-G60012□, S&JX-P300□ and S&JX-P600□ is 60A for each terminal. The rated current for the output terminals on the S&JX-G30024□, S&JX-G30048□, S&JX-G60024□, and S&JX-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° C (-25 to 75° 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.

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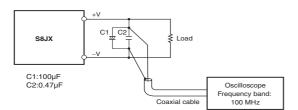
Output Voltage Adjuster (V.ADJ)

- 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

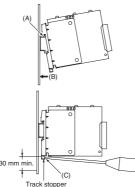
(S8JX-G Series 300-W, 5 V and 600-W 5 V or 12 V Models)

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

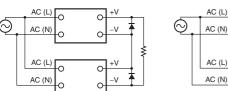
Two power supplies can be connected in series. The (\pm) voltage output can be accomplished with two Power Supplies.

Series Operation Correct

Output Voltage (±) Correct

ю

-0



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				

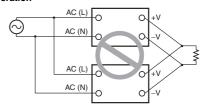
 Although Products having different specifications can be connected in series, the current flowing through the load must not exceed the smaller rated output current.

Parallel Operation

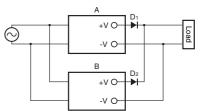
15-/35-/50-/100-/150-W Models

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 D₁ and D₂ forward voltages (V_F).

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.

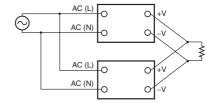
 Since power loss occurs due to load power and the diode, care should be exercised to ensure that the rated power (Rated output voltage × rated output current) for one power supply is not exceeded.

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-G

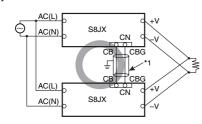
S8JX-(

-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.

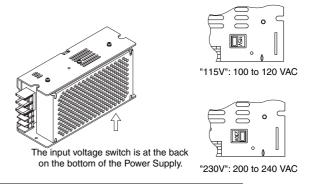
Checking the Remote Control Function

· 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

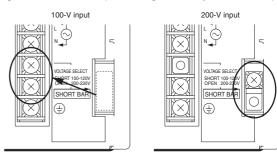
S8JX-G Series 150-W, 5-V Models

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.

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Common Precautions

Fan Replacement

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

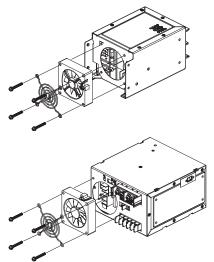
The service life of the fan is approximately 50,000 hours (at 25°C). The service life varies, however, depending on the ambient temperature or other surrounding environmental conditions such as dust. As a preventive maintenance measure, replace the fan within approx. two years if it is used at an ambient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



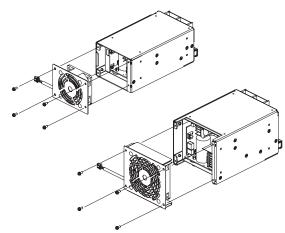
Fan Set:

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

S8JX

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
			75%	79%	80%	81%	83%	75%	78%	
			80%	84%	85%	86%	85%	80%	83%	
Efficiency			15-V models	80%	84%					
24-V model		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
	Ripple f = 100		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-
		f = 20 MHz measuring	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	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-
			12-V models	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)					
		measuring	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 (See note 1.) at 10	at 100% load	5-V,12-V, 15-V models	200 ms	200 ms	210 ms	220 ms	250 ms	100 ms	110 ms
			24-V,48-V models	200 ms	200 ms	210 ms	220 ms	250 ms	350 ms	120 ms
	Hold time (See note 1.)		5-V models	200 ms	200 ms	190 ms	180 ms	54 ms	45 ms	45 ms
		at 100% load	12-V models	200 ms	200 ms	190 ms	170 ms	200 ms	50 ms	50 ms
			15-V models	210 ms	200 ms					
			24-V models	200 ms	200 ms	210 ms	170 ms	210 ms	50 ms	50 ms
				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			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			0.29 A	0.59 A	0.86 A	1.73A	3.42 A
Input	Leakage current	230 V input		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		

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.

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Product specifications and accessories may be changed at any time based on improvements and other reasons.

It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the products may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

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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