OMRON

Switch Mode Power Supply S8JX (15/35/50/100/150/300/600-W Models)

S8JX-G Series

Easy-to-use, Widely range from 15 W to 600 W (Output Voltage: 5 V to 48 V)

• Easy Mounting:

Front-mounted type, DIN rail-mounted type are available.

- Screw-mount at the top. (except 300-/600-W models) • Safety standards:
 - UL 508/60950-1 cUL CSA C22.2 No. 107.1 cUR CSA C22.2 No. 60950-1 EN 50178 (= VDE 0160) Over voltage category III
 - EN 60950-1 (= VDE 0805 Teil 1)
- EMC: Conforms to EN 61204-3. (EMI:EN55011 ClassA)

• Input conditions:

The input voltage range of 15-W, 35-W, 50-W, 100-W, and 150-W models has been increased to 80 to 370 VDC (EC Directives and safety standards do not apply.).

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S8JX-P

S8JX-G

S8JX-P Series

S8JX-P Series with EMI ClassB and Power Factor Correction is newly added to S8JX Series.

(Applicable to all capacities from 50 W to 600 W)

- Limits for harmonic current emissions (conforms to EN61000-3-2)
- Conforms to ÉMI EN55011 Class B
- Applicable to input free voltage: 100 to 240 VAC
- Extended DC input voltage range: 80 to 370 VAC
- * DC input is not subject to EC directives and safety standards.
- Easy mounting: Front-mounting bracket type and DIN-Rail mounting type are included as standard with the product. Screw-mount at the top. (except 300-/600-W models)
- Safety standards
 - UL508/60950-1, cUL CSA C22.2 No.107.1, cUR CSA C22.2 No.60950-1
 - EN50178 (=VDE0160) Over voltage category III * EN60950-1 (=VDE0805 Teil1) *
 - * Scheduled to be obtained in June, 2012 (5V, 12V, and 48V types of 300-W/600-W models).

<Applicable only for 300 W and 600 W>

- High capacity application-covered functions are included as standard with the product.
- Alarm detection function, Remote control function, Remote sensing function

Refer to Safety Precautions on page 53.



S8JX-G

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.

Configuration		Input voltage	Power ratings	Output voltage (VDC)	Output current	Built-in fan	Model
				5 V	3 A		S8JX-G01505
				12 V	1.3 A		S8JX-G01512
			15 W	15 V	1 A		S8JX-G01515
				24 V	0.65 A		S8JX-G01524
				48 V	0.35 A		S8JX-G01548
				5 V	7 A		S8JX-G03505
				12 V	3 A		S8JX-G03512
			35 W	15 V	2.4 A		S8JX-G03515
				24 V	1.5 A		S8JX-G03524
				48 V	0.75 A		S8JX-G03548
	Frank manufic a did			5 V	10 A		S8JX-G05005
	Front-mounting *1		50.14	12 V	4.2 A		S8JX-G05012
			50 W	24 V	2.1 A		S8JX-G05024
				48 V	1.1 A	-	S8JX-G05048
				5 V	20 A		S8JX-G10005
		100 to 240 VAC (free) (80 to 370 VDC * 3) S8JX-G15005⊡: Switchable between	100 W	12 V	8.5 A	- - - - No	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
Open-frame Power				48 V	3.3 A		S8JX-G15048
Supplies				5 V	3 A		S8JX-G01505D
		100 to 120 VAC and		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
				5 V	7 A	-	S8JX-G03505D
				12 V	3 A	-	S8JX-G03512D
			35 W	15 V	2.4 A		S8JX-G03515D
				24 V	1.5 A	-	S8JX-G03524D
				48 V	0.75 A	-	S8JX-G03548D
				5 V	10 A	1	S8JX-G05005D
	DIN Rail-mounting *2			12 V	4.2 A	1	S8JX-G05012D
			50 W	24 V	2.1 A	1	S8JX-G05024D
				48 V	1.1 A	-	S8JX-G05048D
				5 V	20 A	1	S8JX-G10005D
				12 V	8.5 A	1	S8JX-G10012D
			100 W	24 V	4.5 A	1	S8JX-G10024D
				48 V	2.1 A	_	S8JX-G10048D
				5 V	30 A		S8JX-G15005D
				12 V	13 A		S8JX-G15012D
			150 W	24 V	6.5 A	-	S8JX-G15024D
				48 V	3.3 A	1	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).

S8JX-P

Config	guration	Input voltage	Power ratings	Output voltage (VDC)	Output current	Built-in fan	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
	Front-mounting *1			5 V	10 A	-	S8JX-G05005C
			50 W	12 V	4.2 A		S8JX-G05012C
				24 V	2.1 A		S8JX-G05024C
				48 V	1.1 A		S8JX-G05048C
				5 V	20 A		S8JX-G10005C
			100 W	12 V	8.5 A	-	S8JX-G10012C
				24 V	4.5 A		S8JX-G10024C
				48 V	2.1 A	-	S8JX-G10048C
		100 to 240 VAC	150 W	5 V	30 A		S8JX-G15005C
		(Ree) (80 to 370 VDC * 3) S8JX-G15005 Switchable between 100 to 120 VAC and 200 to 240 VAC. (DC power cannot be input.)		12 V	13 A		S8JX-G15012C
				24 V	6.5 A		S8JX-G15024C
				46 V	3.3 A	No	Sell-G01505CD
				12 V	12A	-	Selv C01503CD
			15 W	12 V	1.3 A	-	S8 IX-G01512CD
			15 W	24.V	0.65 A	-	S8 IX-G01524CD
				24 V	0.05 A	-	S8 IX-G015/8CD
Covered Power			35 W		7 A		S& IX-G03505CD
Supplies				12 V	3.4		S&JX-G03512CD
				15 V	2.4 A		S8JX-G03515CD
				24 V	1.5 A		S8JX-G03524CD
				48 V	0.75 A		S8JX-G03548CD
			50 W	5 V	10 A		S8JX-G05005CD
	DIN Rail-mounting *2			12 V	4.2 A		S8JX-G05012CD
				24 V	2.1 A		S8JX-G05024CD
				48 V	1.1 A		S8JX-G05048CD
				5 V	20 A		S8JX-G10005CD
			100.14	12 V	8.5 A		S8JX-G10012CD
			100 W	24 V	4.5 A		S8JX-G10024CD
				48 V	2.1 A		S8JX-G10048CD
				5 V	30 A		S8JX-G15005CD
			150 W/	12 V	13 A		S8JX-G15012CD
			150 W	24 V	6.5 A		S8JX-G15024CD
				48 V	3.3 A		S8JX-G15048CD
				5 V	60 A	Ves	S8JX-G30005C
			300 W	12 V	27 A	163	S8JX-G30012C
			300 W	24 V	14A	No	S8JX-G30024C
	Front-mounting *1			48 V	7A	110	S8JX-G30048C
	one mounting wi	100 to 120 \/AC		5 V	120A		S8JX-G60005C
		200 to 240 VAC	600 W	12 V	53A		S8JX-G60012C
		(Switchable)	000 11	24 V	27A	Yes	S8JX-G60024C
		-		48 V	13A		S8JX-G60048C
				5 V	60 A		S8JX-G30005CD
	DIN Rail-mounting *2		300 W	12 V	27 A		S8JX-G30012CD
	, , , , , , , , , , , , , , , , , , ,			24 V	14A	No	S8JX-G30024CD
			1	48 V	7A		S8.IX-G30048CD

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

Ratings, Characteristics, and Functions

		Input specification	100 to 24	0 V input		
Item		Power ratings *1	15 W	35 W		
Efficiency			68% min.	73% min.		
	Voltage *2		100 to 240 VAC (allowable range: 85 to 264	VAC, 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.		
	ourient 45	200 V input	0.25 A max.	0.6 A max.		
Input	Harmonic current emis	sions		-		
	Leakage current #3	100 V input	0.5 mA max.			
	Leakage current #0	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.			
	Voltage adjustment ran	ge *5	–10% to 15% (with V. ADJ) (48-V models: \pm	10%)		
	Ripple *3		2% (p-p) max.			
	Input variation influence	e	0.4% max. with AC input voltage			
Output *4	Load variation influenc	e	0.8% max. (0 to 100% load, rated input volt	age)		
	Temperature variation	influence	0.05%/°C max. (at rated input and output)			
	Startup time		500 ms max. (up to 90% of output voltage a	t rated input and output)		
	Hold time *3		20 ms min.			
	Overload protection *6		105% to 175% of rated load current, voltage	e drop, intermittent, automatic reset		
	Overvoltage protection	*7	Yes			
Additional	Overheat protection		No			
functions	Parallel operation		No (However, backup operation is possible;	external diodes required.)		
-	Series operation		Yes (For up to two Power Supplies; externa	l diodes required.)		
	Protective circuit operation indicator		No			
	Ambient operating tem	perature	Refer to the derating curve in <i>Engineering L</i> condensation).	Data on page 16 (with no icing or		
	Storage temperature		-25 to $65^{\circ}C$ (with no icing or condensation)			
	Ambient operating hun	nidity	25% to 85% (Storage humidity: 25% to 90%	5)		
	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)			
	FMI	Conducted Emissions	Conforms to EN 55011 Group 1 Class A and	d based on FCC Class A *9		
O (h = 1		Radiated Emissions	Conforms to EN 55011 Group 1 Class A *9	1		
Other		Electrostatic Discharge	Conforms to EN61000-4-2			
		Radiated Electromagnetic Field	Conforms to EN61000-4-3			
	EMS	Electrical Fast Transient/Burst	Conforms to EN61000-4-4			
	LING	Surge	Conforms to EN61000-4-5			
		Conducted Disturbance	Conforms to EN61000-4-6			
		Voltage Dips/Short Interruptions	Conforms to EN61000-4-11			
			UL Listed: UL 508 (Listing), UL UR: UL 609	50-1 (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 (Terminal block: Based on DIN 50274 (VDE	e category III, EN 60950-1 (= VDE 0805 Teil 1) 0660-514))		
	SEMI		SEMI F47-0200 (200-VAC input)			
Weight *8			250 g max.			

*1. When a load is connected that has a built-in DC-DC converter, the overload protection may operate at startup and the Power Supply may not start. Refer to Overload Protection on page 19.
*2. Do not use an Inverter output for the Power Supply. Inverters with an output frequency of 50/60 Hz are available, but the rise in the internal

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 to 240 V input			
Item Power ratings *1			50 W	100 W		
5 V Models		76% min.	76% min.			
Efficiency		12 V Models	81% min.	81% min.		
Emclency		24 V Models	83% min.	83% min.		
48 V Models		48 V Models	82% min. 83% min.			
	Voltage *2	•	100 to 240 VAC (allowable range: 85 to 264 VAC, 80 to 370 VDC *9)			
	Frequency *2		50/60 Hz (47 to 450 Hz)			
	Current #2	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	Harmonic current emissions					
	Lookago current *3	100 V input	0.5 mA max.			
	Leakage current *5	200 V input	1 mA max.			
	Inrush current (for a	100 V input	20 A max.			
	cold start at 25°C) *3	200 V input	40 A max.			
	Voltage adjustment ran	nge *5	–10% to 15% (with V. ADJ) (48-V models: \pm	-10%)		
	Ripple *3		2% (p-p) max.			
	Input variation influence	e	0.4% max. (with AC input voltage)			
Output *4	Load variation influence	e	0.8% max. (0 to 100% load, rated input volt	age)		
	Temperature variation	influence	0.05%/°C max. (at rated input and output)			
	Startup time		500 ms max. (up to 90% of output voltage a	t rated input and output)		
	Hold time *3		20 ms min.			
Overload protection *		5	105% to 175% of rated load current, voltage drop, intermittent, automatic reset			
	Overvoltage protection	*7	Yes			
Additional	Overheat protection		No			
functions	Parallel operation		No (However, backup operation is possible;	external diodes required.)		
	Series operation		Yes (For up to two Power Supplies; externa	l diodes required.)		
	Protective circuit operation	ation indicator	No			
	Ambient operating tem	perature	Refer to the derating curve in <i>Engineering Data</i> on page 16 (with no icing or condensation)			
	Storage temperature	·	-25 to 65°C (with no icing or condensation)			
	Ambient operating hun	aidity	25% to 85% (Storage humidity: 25% to 90%			
	Ambient operating hun	indity	3.0 kVAC for 1 min. (between all inputs and	outputs: detection current: 20 mA)		
	Dielectric strength		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 $\text{M}\Omega$ 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 $\pm X$, $\pm Y$, $\pm Z$ direction	ons		
	Output indicator		Yes (Color: Green)			
	EMI	Conducted Emissions	Conforms to EN 55011 Group 1 Class A an	d based on FCC Class A *9		
0.1		Radiated Emissions	Conforms to EN 55011 Group 1 Class A *9			
Other		Electrostatic Discharge	Conforms to EN61000-4-2			
		Radiated Electromagnetic Field	Conforms to EN61000-4-3			
	EMS	Electrical Fast Transient/Burst	Conforms to EN61000-4-4			
	LWIS	Surge	Conforms to EN61000-4-5			
		Conducted Disturbance	Conforms to EN61000-4-6			
		Voltage Dips/Short Interruptions	Conforms to EN61000-4-11			
			UL Listed: UL 508 (Listing), UL UR: UL 609	50-1 (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 (Terminal block: Based on DIN 50274 (VDE	e category III, EN 60950-1 (= VDE 0805 Teil 1) 6 0660-514))		
	SEMI		SEMI F47-0200 (200-VAC input)			
Weight *8		300 g max.	550 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 switchable	100 to 2	40 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.				
- <i>tt</i> :-:		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: 85 to 132 VAC) and 200 to 240 VAC (allowable range: 170 to 264 VAC).	100 to 240 VAC (allowable range: 85 to 264 VAC, 80 to 370 VDC *9)			
	Frequency *2		50/60 Hz (47 to 450 Hz)	1			
		100 V input	3.5 A max.	3.6 A max.	3.5 A max.		
input	Current *3	200 V input	2.1 A max.	2.2 A max.	2.1 A max.		
	Harmonic current emis	sions					
		100 V input	0.5 mA max.				
	Leakage current *3	200 V input	1 mA max.				
	Inrush current (for a	100 V input	20 A max.				
	cold start at 25°C) *3	200 V input	40 A max.				
	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 vo	ltage)			
Output *4	Load variation influence		0.8% max. (0 to 100% load,	rated input voltage)			
	Temperature variation	influence	0.05%/°C max. (at rated inpu	ut and output)			
	Startup time		500 ms max. (up to 90% of c	output voltage at rated input a	and output)		
	Hold time *3		20 ms min.				
	Overload protection *6		105% to 175% of rated load current, voltage drop, automatic reset105% to 175% of rated load current, voltage drop, intermittent, automatic reset				
Additional	Overvoltage protection	ı * 7	Yes				
functions	Overheat protection		No				
	Parallel operation		No (However, backup operation	tion is possible; external diod	les required.)		
	Series operation		Yes (For up to two Power Su	upplies; external diodes requi	red.)		
	Protective circuit opera	ation indicator	No				
	Ambient operating tem	perature	Refer to the derating curve in <i>Engineering Data</i> on page 16 (with no icing or condensation).				
	Storage temperature		-25 to 55°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 $\pm X$	$X, \pm Y, \pm Z$ directions			
	Output indicator		Yes (Color: Green)				
	FMI	Conducted Emissions	Conforms to EN 55011 Grou	p 1 Class A and based on F	CC Class A *9		
Other		Radiated Emissions	Conforms to EN 55011 Grou	ıp 1 Class A *9			
other		Electrostatic Discharge	Conforms to EN61000-4-2				
		Radiated Electromagnetic Field	Conforms to EN61000-4-3				
	FMS	Electrical Fast Transient/Burst	Conforms to EN61000-4-4				
	Line	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 (Recogn	ition)		
	Approved standards *	9	cUL Listed: CSA C22.2 No.107.1 cUR: CSA C22.2 No. 60950-1				
	0510		EN/VDE: EN50178 (= VDE 01 (Terminal block: Based on D	60), Over voltage category III, NN 50274 (VDE 0660-514))	EN 60950-1 (= VDE 0805 Teil 1)		
	SEMI			SEMI F47-0200 (200-VAC	input)		
	Weight %8		I SUU a max	(UI) a max	L FULL CL 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 *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		
5 V models 7		71% min.	72% min.			
Efficiency		12 V models	75% min.	78% min.		
24 V models		24 V models	82% min.	80% min.		
	1	48 V models	82% min.	80% min.		
	Voltage *2		100 to 120 VAC (allowable range: 85 to 132 VAC) 200 to 240 VAC (allowable range: 170 to 264 VAC) (Switchable)			
	Frequency *2		50/60 Hz (47 to 450 Hz)			
	Current *3	100 V input	8 A max.	16 A max.(5V, 12V, 48V) 14 A max.(24V)		
Input		200 V input	4.5 A max.	9 A max.(5V, 12V, 48V) 8 A max.(24V)		
	Harmonic current emis	sions	-	-		
	Leakage current *3	100 V input	0.5 mA max.			
		200 V input	1 mA max.	20.4 mov		
	Inrush current (for a cold start at 25°C) *3	200 V input	25 A max.	SU A max		
	Voltage edjustment rer		50 A max.	10%)		
	voltage aujustment rai	ige x5	-10% to 13% (with V. ADJ) (48-V models. 3	3 8% (p. p) max (5)/) *6		
	Ripple *3		2.8% (p-p) max.(5V) *6 2% (p-p) max.(12V, 24V, 48V)	2% (p-p) max.(3V) *6 2% (p-p) max.(24V, 48V)		
Output *4	Input variation influence	e	0.4% max.			
	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, Inverted L voltage drop, the circuit will be shut OFF when the overload exceeds 5 s. *10		
Additional	Overvoltage protection	*8	Yes (5V, 12V) *10 Yes (24V, 48V) *10	Yes *10		
lanotiono	Overheat protection		Yes (5V, 12V) *10 N0 (24V, 48V) *10	Yes *10		
	Parallel operation		Yes (up to 5 units)			
	Series operation		Yes (For up to two Power Supplies; external diodes required.)			
	Protective circuit opera	ation indicator	Yes (color: red) (5V, 12V) No (24V, 48V)	Yes (color: red)		
	Ambient operating tem	perature	-25 to 65°C (with no icing or condensation)			
	Ambient operating hun	aidity	25% to 85% (Storage humidity: 25% to 90%)			
	Dielectric strength	incity	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 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)			
	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		
onici		Electrostatic Discharge	Conforms to EN61000-4-2			
		Radiated Electromagnetic Field	Conforms to EN61000-4-3			
	EMS	Electrical Fast Transient/Burst	Conforms to EN61000-4-4			
		Surge	Conforms to EN61000-4-5			
		Conducted Disturbance	Conforms to EN61000-4-6			
		Voltage Dips/Short Interruptions	Conforms to EN61000-4-11			
			UL UR: UL 508 (Recognition), UL 60950-1	(Recognition)		
	Approved standards *	13	cUR: CSA C22.2 No. 60950-1 EN/VDE: EN50178 (= VDE 0160), Over voltag (Terminal block: Based on DIN 50274 (VDE	e category III, EN 60950-1 (= VDE 0805 Teil 1) 0660-514))		
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

S8JX

Connections

Block Diagrams



S8JX-G01548 (15 W)



S8JX-G03505 (35 W) S8JX-G03512 (35 W) LOC (T) O-200--O +V -S8JX-G03515 (35 W) adia **⊳**I† \diamondsuit Fuse 3.15 A # Noise filter INPUT DC OUTPUT # S8JX-G03524 (35 W) LAC (N)O--0 -v Inrush current Rectifier/ Rectifier Smoothing Smoothing circuit protection circuit Ч Н Drive control 000 Circuit Voltage detection vercurrer etection ≱≈¥ Overvoltage letection circu િ≠₹

S8JX-G03548 (35 W)

⊕ 0-



Photocoupler

S8JX-G

S8JX-P







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Overcurrent detection circuit

Voltage detection

Overvoltage detection circui

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

S8JX-G30024 (300 W) S8JX-G30048 (300 W) Rectifier/ Smoothing circuit Fuse IPUT 10 A **→** -O +V -<u>~ ~</u> INPUT Noise filter DC OUTPUT \sim LAC (N)O -0 -v -Rectifier/ Smoothing circuit Inrush current protection 0 100/200V (Selectable) Ч Г - 0-Drive control Circuit đ Overcurre detection Voltage detection ⋡⋷¥ circuit Overvoltage detection circu]∕≠¥ Photocoupler ~ Parallel operation selector ⊕ O-



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.

Construction and Nomenclature

Nomenclature



above

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

Note: The S8JX-G05024CD is shown above.

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





*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.







S8JX-P

S8JX-G



Note: The S8JX-G60024C is shown above.

Reference Values

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Reliability (MTBF)	S8JX-G15012□□ and S8JX-G15005□□	S8JX-G30005□□ and S8JX-G300012□□	S8JX-G6000	Other models		
	240,000 hrs	200,000 hrs	170,000 hrs	250,000 hrs		
Definition	MTBF stands for Mean Time failures, and indicates reliabil Therefore, it does not necess	Between Failures, which is ca ity of devices. arily represent a life of the pro	Iculated according to the prob	ability of accidental device		
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

Engineering Data







OMRON

S8JX-G

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







- 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. 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.



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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- 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

S8JX-G

S8JX-P

Overload Protection

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

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

(Reference value)



150-W, 5-V Models







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

Overvoltage Protection

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

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

300-/600-W Models

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

(Reference value)



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

Overheat Protection

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

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

Inrush Current, Startup Time, Output Hold Time



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

S8JX-G



Dimensions



S8JX



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OMRON



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

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

S82Y-J00F Front-mounting Bracket

Mounting Dimensions dimensions 1.5 +11++-4.6 15±0.2 . Two, M3 60 . Īwo. 3.5 dia 60 20 20 31.5 t = 1.0 20.5 Material: Stainless steel

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.



300-/600-W Models

Front-mounting Bracket (S82Y-J30F)



Note: Mounting Brackets are provided in a set, one for the right side and one for the left side.

Dimensions with Mounting Brackets



600-W Model

Four, M4

120±0.5

Attaching the Mounting Brackets

300-W Model

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

600-W Model



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

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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
200 W/medele	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
Note: Mounting brackets (A, B, C, D	, E, F, G, H, I) are c	ompatible with S82J mounting holes.	

Mounting Bracket A S82Y-JX05B





Screws used A: Accessories (2 locations)

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





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S8JX-G

S8JX-P

Common Precautions





Mounting Bracket E S82Y-JX03B



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





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S8JX

DIN Rail (Order Separately)

Mounting Rail



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.

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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
SAJA IN CAD	S8JX-G-300W, 24-V or 48-V output
3021-JA-04F	S8JX-G-600W, 24-V or 48-V output
SOON IN CED	S8JX-G-300W, input
3021-JA-C3F	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

S8JX-G

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.



N: Without mounting bracket

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

S8JX

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	Built-in fan	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
		Front mounting std		100 \\	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 \\	12 V	13 A		S8JX-P15012
				150 W	24 V	6.5 A		S8JX-P15024
	Open-frame Power				48 V	3.3 A		S8JX-P15048
	Supplies				5 V	10 A		S8JX-P05005D
				50 M/	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 Doil mounting #2		100 W	12 V	8.5 A		S8JX-P10012D
		DIN Rail-mounting #2	100 to 240 VAC		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
			(100) (90 to 270 \/DC *2)	50 W	5 V	10 A		S8JX-P05005C
			(80 to 370 VDC *3)		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
_		Frank manufic a did		100 W	12 V	8.5 A		S8JX-P10012C
		From-mounting *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	J	S8JX-P15012C
				130 VV	24 V	6.5 A		S8JX-P15024C
	Covered Power				48 V	3.3 A		S8JX-P15048C
	Supplies				5 V	10 A		S8JX-P05005CD
				50 W	12 V	4.2 A		S8JX-P05012CD
				30 VV	24 V	2.1 A		S8JX-P05024CD
					48 V	1.1 A		S8JX-P05048CD
					5 V	20 A] [S8JX-P10005CD
		DIN Rail-mounting #2		100 \//	12 V	8.5 A	ļ	S8JX-P10012CD
				100 W	24 V	4.5 A	J	S8JX-P10024CD
					48 V	2.1 A	1	S8JX-P10048CD
					5 V	30 A	J	S8JX-P15005CD
				150 W/	12 V	13 A] [S8JX-P15012CD
				130 W	24 V	6.5 A	J	S8JX-P15024CD
					48 V	3.3 A		S8JX-P15048CD

 $\boldsymbol{*1.}$ 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).

Confi	guration	Input voltage	Power ratings	Output voltage (VDC)	Output current	Built-in fan	Model
				5 V	60 A		S8JX-P30005C
				12 V	27 A		S8JX-P30012C
			300 W	24 V	14 A peak current 16.5 A (200 VAC)		S8JX-P30024C
				48 V	7 A		S8JX-P30048C
	Front-mounting *1			5 V	120 A		S8JX-P60005C
				12 V	53 A		S8JX-P60012C
			600 W	24 V	27 A peak current 31 A (200 VAC)		S8JX-P60024C
				48 V	13 A		S8JX-P60048C
	DIN Rail-mounting *2			5 V	60 A		S8JX-P30005CD
		100 to 240 VAC (free) (80 to 370 VDC *3)	300 W	12 V	27 A		S8JX-P30012CD
				24 V	14 A peak current 16.5 A (200 VAC)	Yes	S8JX-P30024CD
Covered Power Sup-				48 V	7 A		S8JX-P30048CD
lies			600 W	5 V	120 A		S8JX-P60005CD
				12 V	53 A		S8JX-P60012CD
				24 V	27 A peak current 31 A (200 VAC)		S8JX-P60024CD
				48 V	13 A		S8JX-P60048CD
				5 V	60 A		S8JX-P30005N
				12 V	27 A		S8JX-P30012N
			300 W	24 V	14 A peak current 16.5 A (200 VAC)		S8JX-P30024N
	Without mounting			48 V	7 A	1	S8JX-P30048N
	brackets *2			5 V	120 A	1	S8JX-P60005N
				12 V	53 A	1	S8JX-P60012N
			600 W	24 V	27 A peak current 31 A (200 VAC)		S8JX-P60024N
				48 V	13 A		S8JX-P60048N

*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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S8JX

Ratings, Characteristics, and Functions

	Input specification		100 to 240 V input			
Item		Power ratings *1	50 W	100 W	150 W	
5 V Models		73% min.	78% min.	79% min.		
		12 V Models	76% min.	78% min.	78% min.	
Efficiency 24 V Models 48 V Models		24 V Models	77% min.	81% min.	81% min.	
		80% min.	81% min.	82% min.		
	Voltage *2		100 to 240 VAC (allowable ra	ange: 85 to 264 VAC, 80 to 37	70 VDC *9)	
	Frequency *2		50/60 Hz (47 to 63 Hz)			
	Current sk2	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.	
In	Power factor		0.9 min.			
input	Harmonic current emis	ssions	Conforms to EN61000-3-2			
	Lookago ourrent #2	100 V input	0.5 mA max.			
	Leakage current +5	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.			
	Voltage adjustment rai	nge *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 w	hen the ambient temperature is l	ess than 0°C (for only 5 V type).	
	Input variation influence	ce	0.4% max. with AC input volt	age		
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	it and output)		
	Startup time		1,000 ms max.			
	Hold time *3		20 ms min.			
	Overload protection *6		105% to 160% of rated load current, voltage drop, intermittent, automatic reset	105% to 160% of rated load automatic reset	current, voltage drop,	
Additional	Overvoltage protection *7		Yes	L		
functions	Overheat protection		No			
	Parallel operation		No (However, backup operat	tion is possible; external diode	es required.)	
	Series operation		Yes (For up to two Power Su	pplies; external diodes require	ed.)	
Protective circuit operation indicator		ation indicator	No			
Ambient operating temperature		Refer to the derating curve in condensation).	n <i>Engineering Data</i> on page 4.	2 (with no icing or		
	Storage temperature		-25 to 75°C (with no icing or	condensation)		
	Ambient operating humidity		25% to 85% (Storage humid	ity: 25% to 90%)		
	Dielectric strength		3.0 kVAC for 1 min. (betweet 2.0 kVAC for 1 min. (betweet 1.0 kVAC for 1 min. (betweet	n all inputs and outputs; detec n all inputs and PE terminals; n all outputs and PE terminals	tion current: 20 mA) detection current: 20 mA) ; 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	Output indicator		Yes (Color: Green)		
	EMI	Conducted Emissions	Conforms to EN 55011 Grou	p 1 Class B and based on FC	C Class B *9	
Other		Radiated Emissions	Conforms to EN 55011 Group 1 Class B *9			
ounor		Electrostatic Discharge	Conforms to EN61000-4-2			
		Radiated Electromagnetic Field	Conforms to EN61000-4-3			
	EMS	Electrical Fast Transient/Burst	Conforms to EN61000-4-4			
		Surge	Conforms to EN61000-4-5			
		Conducted Disturbance	Conforms to EN61000-4-6			
	Voltage Dips/Short Interruptions		Conforms to EN61000-4-11		• \	
	Approved standards *9		UL Listed: UL 508 (Listing), UL UR: UL 60950-1 (Recognition)			
			CUL LISTED: CSA C22.2 No.1 CUR: CSA C22.2 No. 60950-	1 1		
			EN/VDE: EN50178 (= VDE 0160) Over voltage category III, EN 60950-1 (= VDE 0805 Teil 1) (Terminal block: Based on DIN 50274 (VDE 0660-514))			
	SEMI		SEMI F47-0706 (200-VAC in	put)	I	
	Weight *8		370 g max.	550 g max.	590 g max.	

Weight *8370 g max.550 g max.590 g max.*1. When a load is connected that has a built-in DC-DC converter, the overload protection may operate at startup and the Power Supply may not start. Refer to Overload Protection on page 44.*2. Do not use an Inverter output for the Power Supply. Inverters with an output frequency of 50/60 Hz are available, but the rise in the internal temperature of the Power Supply may result in ignition or burning.*3. Rated input voltage: 100 or 200 VAC at 100% load.*4. Output characteristics: Specified at power supply output terminals.*5. If the output voltage adjuster (V. ADJ) is turned, the voltage will increase by more than the allowable voltage range. When adjusting the output voltage, confirm the actual output voltage from the Power Supply and be sure that load is not damaged.*6. For details, refer to Overload Protection on page 44.*7. To reset the protection, turn OFF the input power for three minutes or longer and then turn it back ON.*8. The weight indicated is for Front-mounting, Open-frame Power Supply.*9. The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC (85 to 264 VAC).

	Input specificatio		1 100 to 240 V input		
Item		Power ratings *1	300 W	600 W	
5 V models		5 V models	75% min.	76% min.	
Efficiency		12 V models	77% min.	76% min.	
24 V mode 48 V mode		24 V models	79% min.	78% min.	
		48 V models	78% min.	79% min.	
	Voltage *2		100 to 240 VAC (allowable range: 85 to 264	4 VAC, 80 to 370 VDC *8)	
	Frequency *2		50/60 Hz (47 to 63 Hz)		
	Current #2	100 V input	4.5 A max.	8.7 A max.	
	Guilent #5	200 V input	2.2 A max.	4.3 A max.	
Innut	Power factor		0.9 min.		
mput	Harmonic current emissions		Conforms to EN61000-3-2		
	Leakage current *3	100 V input	0.5 mA max.		
	Leakage current *5	200 V input	1 mA max.		
	Inrush current (for a	100 V input	17.5 A max.		
	cold start at 25°C) *3	200 V input	35 A max.		
	Voltage adjustment ran	ige *5	-10% to 15% (with V. ADJ) (5 V, 48 V mod	els: ±10%)	
	Ripple *3		2% (p-p) max. 3% (p-p) max. (for only 5 V type) *13		
0	Input variation influence	e	0.4% max.		
Output *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		1,000 ms max.		
Hold time *3			20 ms min.		
	Overload protection *6		105% to 160% of rated load current, voltage drop, intermittent, automatic reset.		
	Overvoltage protection	*7	Yes		
Additional	Overheat protection		Yes		
functions	Parallel operation		Yes (up to 5 Power Supplies)		
	Series operation		Yes (For up to two Power Supplies; externa	al diodes required.)	
	Ambient operating temperature		Yes (color: red)		
	Storage temperature		Refer to the derating curve in Engineering Da	ta on page 42 (with no icing or condensation).	
	Storage temperature		-25 to 75°C (with no icing or condensation)	<u></u>	
	Ambient operating humidity		25% to 85% (Storage humidity: 25% to 90%		
	Dielectric strength		3.0 kVAC for 1 min. (between all inputs and 2.0 kVAC for 1 min. (between all inputs and 1.0 kVAC for 1 min. (between all outputs ar 100 VAC for 1 min. (between all outputs an 500 VAC for 1 min. (between all outputs an	I Outputs; detection current: 20 mA) I PE terminals; detection current: 20 mA) d PE terminals; detection current: 100 mA) d RC terminals; detection current: 100 mA) d ALM 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 *11		
	Output indicator		Yes (Color: Green)		
	EMI	Conducted Emissions *3	Conforms to EN 55011 Group 1 Class B and based on FCC Class B *12		
Other		Radiated Emissions	Conforms to EN 55011 Group 1 Class B *12		
		Electrostatic Discharge	Conforms to EN61000-4-2		
		Radiated Electromagnetic Field	Conforms to EN61000-4-3		
	EMS	Electrical Fast Transient/Burst	Conforms to EN61000-4-4		
		Surge	Conforms to EN61000-4-5		
		Conducted Disturbance	Contorms to EN61000-4-6		
		voitage Dips/Short Interruptions		(Papagnitian)	
			UL UK: UL 508 (Recognition), UL 60950-1		
	Approved standards *	в	CUR. COA C22.2 NO.107.1, COA C22.2 NO.		
			ENVUE: EN50178 (= VDE 0160) Over volt EN 60950-1 (= VDE 0805 Teil 1) *9 (Terminal block: Based on DIN 50274 (VDE	age category III *9 , E 0660-514))	
	SEMI		SEMI F47-0706 (200-VAC input)		
	Weight		1,200 g max. *10	1,800 g max. *10	

- *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. Certification for 5V, 12V, and 48V of the 300-W model, and 5V, 12V, and 48V of the 600-W model, is scheduled to be obtained in June, 2012. ***10.**The weight is of the type without a mounting bracket.

*11.S8JX-P600 CD: 100 m/s2

- *12. The noise value will vary depending on wiring methods and other characteristics.
 - 300-W/600-W models conform to Class B with an aluminum plate set under the product.
- For the 300-W 5V and 600-W 5V and 12V models, insert a noise filter (TDK-Lambda RSEN-2016) in the input line.
- *13. Measurement method conform to RC-9131A of the JEITA standards. For details, refer to "Ripple Noise Voltage" on page 55.

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-G

Common Precautions

Construction and Nomenclature

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.

300-W Models

Note: The S8JX-P30024N is shown above.

600-W Models



1 2 Note: The S8JX-P60024N is shown above.

Reference Values

No.	Name	Function
1	Input Terminals (L), (N)	Connect the input lines to these terminals. *1
2	Protective Earth Terminal (PE) (😑)	Connect the ground line to these termi- nals. *2
3	DC Output Terminals (-V), (+V)	Connect the load lines to these terminals.
4	Output Indicator (DC ON: Green)	Lights green while a direct current (DC) output is ON.
5	Output Voltage Adjuster (V. ADJ)	It is possible to increase or decrease the output voltage.
6	Alarm indicator (ALM: Red)	This lamp lights up at the time of output voltage deterioration or fan stoppage, and in standby mode by remote control function.
7	Signal output connector $*3$ 11 $\square \square \square$ 12 9 $\square \square \square$ 10 7 $\square \square \square$ 8 5 $\square \square \square$ 6 3 $\square \square \square$ 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) (Not connected) (ALMC) (Collector side) Alarm detection output terminal (ALMC) (E) (E) (E)

*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).

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.

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.





150-W Models



Horizontal-side-mounting

(%)

rate

100 Load



- 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



(%)

-oad rate

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.

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Remote sensing function

Use this function when it is desirable to automatically compensate for voltage drops in 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. The voltage drop in the load line must be 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.
 - 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. 2. Use a twist wire or a two-core shield wire for connection line.
 - 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.
 - 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)



100-/150-W Models

50

100

Load rate (%)

Output voltage (V)

0



S8JX-I

S8JX-0

Overvoltage Protection

50-/100-/150-W Models

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

300-/600-W Models

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

(Reference value)



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

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

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



- Note: 1. Do not hold peak load current over 10 seconds. In addition, you should not use duty cycle under conditions beyond above figure.
 - It may cause damage in its power supply.Please derate peak load current depending on ambient temperature and mounting orientation.
 - 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. S8JX-P

Dimensions



S8JX-G



S8JX





Common Precautions

S8JX-P

S8JX

S8JX-G

S8JX-P

Common Precautions





S8JX-P

DIN Rail-mounting Models









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 **Front-mounting Method Bracket**

4.6 15±0.2

. Īwo. 3.5 dia

20

Temporarily attach the enclosed mounting bracket as shown in the illustration on the right, Mounting hook the holes (parts a) in the Power Supply on dimensions hooks on the mounting bracket (parts b), and secure the Power Supply with two mounting screws. Two, M3 60

Note: Mounting screws are not provided. Mounting bracket

Model

PFP-M

t = 1.0 20.5 Material: Stainless steel

20

+31.5

Dimensions

60

5

DIN Rail (Order Separately)

Mounting Rail





Mounting Rail (Material: Aluminum) Model 29.2 PFP-100N2 +25 10 10 1,000 **End Plate** 10 6.2 1.8 $M4 \times 8$ anhea screv

washer -4.8 If there is a possibility that the Unit will be subject to vibration or shock, use a steel DIN Rail. Otherwise, metallic filings may result from Note: 1. aluminum abrasion.

M4 spring

-1.3

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

1.5

Terminal Cover (Order Separately)

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

Replacement Fan (sold separately)

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

S8JX-G

OMRON

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).



(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.

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*1. Convection of air

*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
150 W at 5 V	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
	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
500W 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 S8JX-G30005 , S8JX-G30012 , S8JX-G60005 , S8JX-G60012 , S8JX-P300 and S8JX-P6000 is 60A for each terminal. The rated current for the output terminals on the S8JX-G30024 , S8JX-G30048 , S8JX-G60024 , and S8JX-G60048 is 20 A for each terminal. Use two terminals together if the current flow is higher than the rated terminal current.

Method of Manufacturing Connector Harness for Signal I/O

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

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

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

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

Installation Environment

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

Ambient Operating and Storage Environments

- Store the Power Supply at a temperature of -25 to 65° 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.

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

-0

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

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

Parallel Operation

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

The Product is not designed for parallel operation.

Parallel Operation Incorrect



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



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

- Type: Schottky Barrier diode
- Withstand voltage (VRRM): Equivalent to or higher than the rated power supply output voltage
- Forward current (IF): Double the rated power supply output current or higher
- The output voltages of power supplies A and B output should be set higher only by a value equivalent to the drop in diode D₁ and D₂ forward voltages (V_F).

In addition, since power loss occurs resulting from power supply output current (I_{OUT}) × diode forward voltage (V_F), 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-C

S8JX-

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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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

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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