

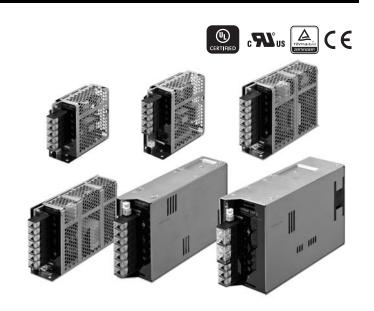
Switch Mode Power Supply S8FS-G (15/30/50/100/150/300/600-W Models)

Superior Basic Performance That **Ensures Reliability. Wide Range** of Standards Certification and Greater Usability.

- Superior basic performance that ensures reliability Ambient temperatures up to 70°C, greater resistance to rusting with aluminum/stainless steel case, and applications at altitudes up to 3,000 m.
- Certification for Global Standards North America: UL 508 (Listing)*, CSA C22.2 Europe: Overvoltage Category III (EN 50178) EMI: Class B (EN 61204-3)

No need for control circuit transformers for which the Machinery Directive is specified. (EN/IEC 61558-2-16) * Refer to pages 4 to 10 for certified models.

 Greater Usability The Terminal Block Cover prevents screws from dropping out and the Front Cover prevents ingress of foreign matter.



Refer to Safety Precautions for All Power Supplies and Safety Precautions on page 29.

Lineup

Output voltage	Power rating								
Output voltage	15 W	30 W	50 W	100 W	150 W	300 W	600 W		
5 V	Yes	Yes	Yes	Yes	Yes				
12 V	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
15 V	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
24 V	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
48 V					Yes	Yes	Yes		

Model Number Structure

Model Number Legend

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

S8FS-	G			<u></u>	<u>-</u>		
	1	2	3	4	5	6	7

i. Power Ratings	2. Output voitage
015: 15 W	05: 5 V
030: 30 W	12: 12 V
050: 50 W *1	15: 15 V
100: 100 W *2	24: 24 V
4 FO. 4 FO W 4.0	40. 40 \/

600: 600 W

150: 150 W ***3** 48: 48 V 300: 300 W

Output voltage 3. Configuration

C: With cover/Direct mounting CD: With cover/DIN Rail mounting

None: Screw terminal block Connectors *4

5. Option (2) *5 7. Option (4) *7 None: None None: None

Parallel operation Extended hold time

6. Option (3) *6 None: None Remote control

*1. The output electric power is 40 W for products with an output voltage of 5 V.

*2. The output electric power is 80 W for products with an output voltage of 5 V.

*3. The output electric power is 105 W for products with an output voltage of 5 V.

*5. Applicable only for 600 W and 24 V.

*6. Applicable only for 100 W or more and 24 V.

*7. Applicable only for 300 W or more and 24 V.

^{*4.} Applicable only for 150 W or less and 24 V.

Ordering Information

List of Models

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

With Cover/DIN Rail Mounting

ower ratings	Input voltage	Output voltage (VDC)	Output current	Built-in fan	Model
		5 V	3 A		S8FS-G01505CD
45 14/		12 V	1.3 A		S8FS-G01512CD
15 W		15 V	1 A		S8FS-G01515CD
		24 V	0.65 A		S8FS-G01524CD
		5 V	6 A		S8FS-G03005CE
30 W		12 V	3 A		S8FS-G03012CE
30 W		15 V	2.4 A		S8FS-G03015CE
		24 V	1.5 A		S8FS-G03024CI
		5 V	8 A * 1		S8FS-G05005CE
50 W	100 to 240 VAC (Permissible range	12 V	4.3 A		S8FS-G05012CE
50 VV	85 to 264 VAC,	15 V	3.5 A	None	S8FS-G05015CE
	80 to 370 VDC) *4	24 V	2.2 A		S8FS-G05024CE
	*4	5 V	16 A * 2		S8FS-G10005CE
100 W		12 V	8.5 A		S8FS-G10012C
		15 V	7 A		S8FS-G10015CE
		24 V	4.5 A		S8FS-G10024CE
		5 V	21 A * 3		S8FS-G15005CE
		12 V	13 A		S8FS-G15012CE
150 W		15 V	10 A		S8FS-G15015CE
		24 V	6.5 A		S8FS-G15024CE
		48 V	3.3 A		S8FS-G15048CD
	100 to 240 VAC	12 V	25 A		S8FS-G30012CE
300 W	(Permissible range	15 V	20 A		S8FS-G30015CE
300 W	85 to 264 VAC,	24 V	14 A		S8FS-G30024CE
	120 to 370 VDC)	48 V	7 A	Yes	S8FS-G30048CE
	100 to 240 VAC	12 V	50 A	168	S8FS-G60012CE
600 W	(Permissible range	15 V	40 A		S8FS-G60015CE
OUU VV	85 to 264 VAC,	24 V	27 A		S8FS-G60024CE
	120 to 350 VDC)	48 V	13 A		S8FS-G60048CD

Note: Ask your OMRON representative for pricing information on optional models.

With Cover/DIN Rail Mounting (Extended hold time type)

Power ratings	Input voltage	Output voltage (VDC)	Output current	Built-in fan	Model
300 W	100 to 240 VAC (Permissible range 85 to 264 VAC, 120 to 370 VDC)	24 V	14 A	Yes	S8FS-G30024CD-H
600 W	100 to 240 VAC (Permissible range 85 to 264 VAC, 120 to 350 VDC)	24 V	27 A	res	S8FS-G60024CD-H

^{*1.} The output electric power is 40 W.

^{*2.} The output electric power is 80 W.

^{*3.} The output electric power is 105 W.

^{*4.} Applicable to products produced from May 2018.

With Cover/Direct Mounting

Power ratings	Input voltage	Output voltage (VDC)	Output current	Built-in fan	Model
		5 V	3 A		S8FS-G01505C
15 W	-	12 V	1.3 A		S8FS-G01512C
15 W		15 V	1 A		S8FS-G01515C
		24 V	0.65 A		S8FS-G01524C
		5 V	6 A		S8FS-G03005C
30 W		12 V	3 A		S8FS-G03012C
30 W		15 V	2.4 A		S8FS-G03015C
		24 V	1.5 A		S8FS-G03024C
	100 1- 040 1/40	5 V	8 A * 1		S8FS-G05005C
50 W	100 to 240 VAC (Permissible range	12 V	4.3 A		S8FS-G05012C
50 W	85 to 264 VAC,	15 V	3.5 A	None	S8FS-G05015C
	80 to 370 VDC) *4	24 V	2.2 A		S8FS-G05024C
	*4	5 V	16 A * 2		S8FS-G10005C
100 W		12 V	8.5 A		S8FS-G10012C
100 vv		15 V	7 A		S8FS-G10015C
		24 V	4.5 A		S8FS-G10024C
		5 V	21 A * 3		S8FS-G15005C
		12 V	13 A		S8FS-G15012C
150 W		15 V	10 A		S8FS-G15015C
		24 V	6.5 A		S8FS-G15024C
		48 V	3.3 A		S8FS-G15048C
	100 to 240 VAC	12 V	25 A		S8FS-G30012C
000 14/	(Permissible range	15 V	20 A		S8FS-G30015C
300 W	85 to 264 VAC, 120 to 370 VDC)	24 V	24 V 14 A		S8FS-G30024C
		48 V	7 A	Yes	S8FS-G30048C
	100 to 240 VAC	12 V	50 A	res	S8FS-G60012C
600 W	(Permissible range	15 V	40 A		S8FS-G60015C
600 W	85 to 264 VAC,	24 V	27 A		S8FS-G60024C
	120 to 350 VDC)	48 V	13 A		S8FS-G60048C

Note: 1. Ask your OMRON representative for pricing information on optional models.

To mount a Power Supply from the front, purchase a DIN Rail-mounting Power Supply and a Front-mounting Bracket (sold separately). Refer to page 27.

With Cover/Direct Mounting (Extended hold time type)

Power ratings	Input voltage	Output voltage (VDC)	Output current	Built-in fan	Model
300 W	100 to 240 VAC (Permissible range 85 to 264 VAC, 120 to 370 VDC)	24 V	14 A	Yes	S8FS-G30024C-H
600 W	100 to 240 VAC (Permissible range 85 to 264 VAC, 120 to 350 VDC)	24 V	27 A	res	S8FS-G60024C-H

With Cover/Direct Mounting (Connector type)

Power ratings	Input voltage	Output voltage (VDC)	Output current	Built-in fan	Model
15 W	100 +- 040 1/40		0.65 A		S8FS-G01524CE
30 W	100 to 240 VAC (Permissible range		1.5 A		S8FS-G03024CE
50 W	85 to 264 VAC,	24 V	2.2 A	None	S8FS-G05024CE
100 W	80 to 370 VDC) *4		4.5 A		S8FS-G10024CE
150 W	~ 4		6.5 A		S8FS-G15024CE

^{*1.} The output electric power is 40 W.

^{2.} Front-mounting is not possible.

^{*2.} The output electric power is 80 W.

^{*3.} The output electric power is 105 W.
*4. Applicable to products produced from May 2018.

Specifications

		Power rating			15 W			
Item		Output voltage	5 V	12 V	15 V	24 V		
item		100 VAC input		84% typ.	84% typ.			
⊏fficion ou str		200 VAC input	80% typ.			85% typ.		
Efficiency *		•	80% typ.	84% typ.	84% typ.	86% typ.		
	1	230 VAC input	80% typ.	84% typ.	84% typ.	86% typ.		
	Voltage range *		Single phase, 85 to 264		;			
	Frequency *	1	50/60 Hz (47 to 450 Hz)					
	Current *	100 VAC input	0.32 A typ.					
		200 VAC input	0.2 A typ.					
Input	Power factor							
	Leakage current *	100 VAC input	0.5 mA max.					
	Leakage current *	200 VAC input	1 mA max.					
	Inrush current *	100 VAC input	14 A typ.					
	(for a cold start at	200 VAC input	28 A typ.					
	25°C)	The state of the s						
	Rated Output Currer		3 A	1.3 A	1 A	0.65 A		
	Voltage adjustment	range *	-10% to 15% (with V.A	DJ)				
	Ripple & Noise voltage *	100 to 240 VAC input	40 mVp-p max.	40 mVp-p max.	40 mVp-p max.	60 mVp-p max.		
	Input variation influe	Input variation influence *						
Output	Load variation influe	oad variation influence *						
Temperature variation influence		100 to 240 VAC input	0.05%/°C max.					
		100 VAC input	1,000 ms max.					
	Startup time *	200 VAC input	1,000 ms max.					
		100 VAC input	15 ms typ.	14 ms typ.	15 ms typ.	15 ms typ.		
	Hold time *	200 VAC input	75 ms typ.	70 ms typ.	75 ms typ.	70 ms typ.		
	Overload protection		Yes, automatic reset	70 mo typ.	70 ms typ.	70 ms typ.		
	Overload protection			rated output voltage	nower shut off (shut off th	ne input voltage and turn o		
	Overvoltage protect	ion *	the input again)	rated output voltage,	power shat on (shat on the	ie input voitage and turn c		
	Overheat protection		No Page 7					
Additional	Series operation		Yes (For up to two Pow	er Supplies external	diodes are required)			
functions	Parallel operation		` '		external diodes are requir	ed)		
	Remote sensing		No (Flowever, backup o	pperation is possible, t	external diodes are requir	eu.)		
	Remote control		No					
	+							
	Output indicator		Yes (LED: Green)					
	Wishesters december		3 kVAC for 1 min. (between all input terminals and output terminals) current cutoff 20 mA					
Insulation	Withstand voltage		2 kVAC for 1 min. (between all input terminals and PE terminals) current cutoff 20 mA 1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA					
			,	· · · · · · · · · · · · · · · · · · ·				
	Insulation resistance	e	100 MΩ min. (between all output terminals and all input terminals/PE terminals) at 500 VDC					
	Ambient operating to	emperature	-20 to 70°C (Derating is required according to the temperature.) (with no condensation or icing)					
	Storage temperature	•	-25 to 75°C (with no co	endensation or icing)				
Environment	Ambient operating h	numidity	90% max. (Storage hur	midity: 90% max.)				
	Vibration resistance		10 to 55 Hz, 4.5 G max., 0.375-mm half amplitude for 2 h each in X, Y, and Z directions					
	Shock resistance		150 m/s², 3 times each in ±X, ±Y, ±Z directions					
Deliebili	MTBF		135,000 hrs min.					
Reliability	Life expectancy *		10 years min.					
	Dimensions (W×H×E	0)	Refer to <i>Dimensions</i> on page 19.					
	Weight		250 g					
Construction	Cooling fan		No					
	Degree of protection	1						
	Harmonic current en		Conforms to EN 61000	-3-2				
	and the control of	Conducted Emissions						
	EMI *	Radiated Emissions						
	EMS	Tadiated Ellissions	Conforms to EN 61204-3 Class B, EN 55011 Class B					
Standards	Safety Standards			Conforms to EN 61204-3 high severity levels UL 508 (Listing, excluding models with connector option) UL 60950-1, UL 62368-1 (Recognition, OVCII [≤ 3,000 m], Pol2) CSA C22.2 No.107.1 (excluding models with connector option) CSA C22.2 No.60950-1, No.62368-1 (excluding models with connector option) EN 50178 (OVCIII [≤ 2,000 m], OVCII [> 2,000 m and ≤ 3,000 m], Pol2) EN/IEC 60950-1, EN/IEC 62368-1 (OVCII [≤ 3,000 m], Pol2) Conforms to EN/IEC 61558-2-16 Conforms to PELV (EN/IEC 60204-1)				
	Marine Standards		No					
	SEMI		Conforms to F47-0706	(200 VAC input)				
D (. D (inga Characteristics							

^{*} Refer to Ratings, Characteristics, and Functions on page 11.

		Power rating			30 W				
Item		Output voltage	5 V 12 V 15 V 24 V						
		100 VAC input	81% typ.	84% typ.	86% typ.	86% typ.			
Efficiency *		200 VAC input	81% typ.	86% typ.	88% typ.	88% typ.			
		230 VAC input	81% typ.	86% typ.	88% typ.	89% typ.			
	Voltage range *	200 TAO IIIput		264 VAC, 80 to 370 VDC	**	00 /0 typ.			
	Frequency *		50/60 Hz (47 to 450		<u> </u>				
	Troquency 4	100 VAC input	0.72 A typ.	, , , , ,					
	Current *	200 VAC input	0.43 A typ.						
	Power factor	200 TAO IIIput							
Input	T OWOT TUBE	100 VAC input	0.5 mA max.						
	Leakage current *	200 VAC input	1 mA max.						
	Inrush current *	100 VAC input	14 A typ.						
	(for a cold start at	•							
	25°C)	200 VAC input	28 A typ.	İ	İ	Ī			
	Rated Output Curre		6 A	3 A	2.4 A	1.5 A			
	Voltage adjustment	range *	-10% to 15% (with	V.ADJ)					
	Ripple & Noise	100 to 240 VAC input	50 mVp-p max.	60 mVp-p max.	50 mVp-p max.	60 mVp-p max.			
	voltage *	•							
	Input variation influ		0.5% max.						
Output	Load variation influ	erice क	1.0% max.						
	Temperature variation influence	100 to 240 VAC input	0.05%/°C max.						
		100 VAC input	1,000 ms max.						
	Startup time *	200 VAC input	1.000 ms max.						
		100 VAC input	11 ms typ.	10 ms typ.	11 ms typ.	10 ms typ.			
	Hold time *	200 VAC input	60 ms typ.	50 ms typ.	50 ms typ.	55 ms typ.			
	Overload protection		Yes, automatic rese		00 me typ:	oo me typ.			
			,		power shut off (shut off th	e input voltage and turn			
	Overvoltage protection *			· · · · · · · · · · · · · · · · · · ·	F	gg-			
	Overheat protection	•		No					
	Series operation		Yes (For up to two	Power Supplies, external	diodes are required.)				
Tunctions	Parallel operation		No (However, back	up operation is possible, e	external diodes are requir	ed.)			
	Remote sensing		No						
	Remote control		No						
	Output indicator		Yes (LED: Green)						
			3 kVAC for 1 min. (between all input terminals and output terminals) current cutoff 20 mA						
lmavilation	Withstand voltage		2 kVAC for 1 min. (between all input terminals and PE terminals) current cutoff 20 mA						
Insulation			1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA						
	Insulation resistance	e	100 M Ω min. (between all output terminals and all input terminals/PE terminals) at 500 VDC						
	Ambient operating	temperature	-20 to 70°C (Derating is required according to the temperature.) (with no condensation or icing)						
	Storage temperatur	е	-25 to 75°C (with n	o condensation or icing)					
Environment	Ambient operating I	humidity	90% max. (Storage	humidity: 90% max.)					
	Vibration resistance)	10 to 55 Hz, 4.5 G i	10 to 55 Hz, 4.5 G max., 0.375-mm half amplitude for 2 h each in X, Y, and Z directions					
	Shock resistance		150 m/s ² , 3 times e	ach in ±X, ±Y, ±Z directio	ns				
Daliabili	MTBF		135,000 hrs min.						
Reliability	Life expectancy *		10 years min.						
	Dimensions (W×H×	D)	Refer to <i>Dimensions</i> on page 19.						
0	Weight		250 g						
Construction	Cooling fan		No						
	Degree of protection	n							
	Harmonic current e		Conforms to EN 61	000-3-2					
		Conducted Emissions	Conforms to EN 61204-3 Class B, EN 55011 Class B						
	EMI *	Radiated Emissions		204-3 Class B, EN 55011					
	EMS			204-3 high severity levels					
Standards	Safety Standards		UL 508 (Listing, exc UL 60950-1, UL 62: CSA C22.2 No.107 CSA C22.2 No.609 EN 50178 (OVCIII EN/IEC 60950-1, E Conforms to EN/IEC	cluding models with conne 368-1 (Recognition, OVCI 1.1 (excluding models with 50-1, No.62368-1 (exclud 52,000 m], OVCII [> 2,00 N/IEC 62368-1 (OVCII [≤ C 61558-2-16	ector option) II [\leq 3,000 m], Pol2) connector option) ing models with connecto 00 m and \leq 3,000 m], Pol2				
	Marine Standards		Conforms to PELV (EN/IEC 60204-1) No						
				706 (200)/40 :====					
	SEMI	and Functions on na	Comorms to F47-0	706 (200 VAC input)					

^{*} Refer to Ratings, Characteristics, and Functions on page 11.

		Power rating			50 W			
Item		Output voltage	5 V 12 V 15 V 24 V					
		100 VAC input	81% typ.	84% typ.	86% typ.	86% typ.		
Efficiency *		200 VAC input	82% typ.	86% typ.	88% typ.	89% typ.		
, ,		230 VAC input	82% typ.	86% typ.	88% typ.	89% typ.		
	Voltage range *			264 VAC, 80 to 370 VDC		3071-5/61		
	Frequency *		50/60 Hz (47 to 450 Hz)					
		100 VAC input	1.1 A typ.					
	Current *	200 VAC input	0.62 A typ.					
Input	Power factor							
прис		100 VAC input	0.5 mA max.					
	Leakage current *	200 VAC input	1 mA max.					
	Inrush current *	100 VAC input	14 A typ.					
	(for a cold start at	200 VAC input	28 A typ.					
	25°C)	The state of the s		4.0.4	0.5.4	0.04		
	Rated Output Currer		8 A	4.3 A	3.5 A	2.2A		
	Voltage adjustment	range क	-10% to 15% (with	V.ADJ)				
	Ripple & Noise voltage *	100 to 240 VAC input	40 mVp-p max.	40 mVp-p max.	40 mVp-p max.	60 mVp-p max.		
	Input variation influe	ence *	0.5% max.	<u> </u>		<u> </u>		
	Load variation influe		1.0% max.					
Output	Temperature variation influence	100 to 240 VAC input	0.05%/°C max.					
	Startup time 4	100 VAC input	1,000 ms max.					
	Startup time *	200 VAC input	1,000 ms max.					
	Hold time ≭	100 VAC input	14 ms typ.	11 ms typ.	10 ms typ.	10 ms typ.		
	noid tille 4	200 VAC input	75 ms typ.	60 ms typ.	60 ms typ.	55 ms typ.		
	Overload protection		Yes, automatic reset					
	Overvoltage protect	ion *	Yes, 120% or higher the input again)	er of rated output voltage,	power shut off (shut off the	ne input voltage and turn		
	Overheat protection		No					
Additional functions	Series operation		Yes (For up to two	Power Supplies, external	diodes are required.)			
idilotions	Parallel operation		No (However, back	up operation is possible,	external diodes are requir	red.)		
	Remote sensing		No					
	Remote control		No					
	Output indicator		Yes (LED: Green)					
			3 kVAC for 1 min. (between all input terminals and output terminals) current cutoff 20 mA					
	Withstand voltage		`	between all input terminal	· · · · · · · · · · · · · · · · · · ·			
Insulation			1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA					
				(between all output termi				
	Insulation resistance		100 MΩ min. (between all output terminals and all input terminals/PE terminals) at 500 VDC					
	Ambient operating t	.	-20 to 70°C (Derating is required according to the temperature.) (with no condensation or icing)					
	Storage temperature		-25 to 75°C (with no condensation or icing)					
Environment	Ambient operating h	·	, -	humidity: 90% max.)	Incole for O.L. Control	(7		
	Vibration resistance			max., 0.375-mm half amp		, and ∠ directions		
	Shock resistance		· ·	each in ±X, ±Y, ±Z direction	ms			
Reliability	MTBF		135,000 hrs min.					
	Life expectancy * Dimensions (W×H×I	1)	10 years min.					
	•	'1	Refer to Dimensions on page 20.					
Construction	Weight Cooling fan		300 g No					
	Degree of protection	1						
	Harmonic current er		Conforms to EN 61	000-3-2				
		Conducted Emissions			Class B			
	EMI *	Radiated Emissions	Conforms to EN 61204-3 Class B, EN 55011 Class B Conforms to EN 61204-3 Class B, EN 55011 Class B					
	EMS	- Educate Elimotions		204-3 high severity levels				
Standards	Safety Standards			204-0 High seventy levels 368-1 (Recognition, OVC 1.1 (excluding models with 50-1, No.62368-1 (excluding models with [≤ 2,000 m], OVCII [> 2,00 N/IEC 62368-1 (OVCII [≤ C 61558-2-16 (EN/IEC 60204-1)	ector option) II [\leq 3,000 m], Pol2) connector option) ling models with connecton mand \leq 3,000 m], Pol 2			
			No					
	Marine Standards		No					

^{*} Refer to Ratings, Characteristics, and Functions on page 11.

		Power rating	100 W						
Item	tem Output voltage			5 V 12 V 15 V 24 V					
item		100 VAC input	79% typ.	84% typ.	85% typ.	87% typ.			
Efficiency *		200 VAC input	81% typ.	86% typ.	87% typ.	89% typ.			
Efficiency &		230 VAC input	81% typ.		- ''				
	Voltage range *	230 VAC IIIput	7.	86% typ. 264 VAC, 80 to 370 VDC	87% typ.	89% typ.			
	Frequency *		50/60 Hz (47 to 450		1				
	Frequency &	100 VAC immut	`	пи					
	Current *	100 VAC input 200 VAC input	2.1 A typ.						
	Danier factor	200 VAC Input	1.2 A typ.						
Input	Power factor	100 VAC immut							
	Leakage current *	100 VAC input	0.5 mA max.						
	In mark to a common to the	200 VAC input	1 mA max.						
	Inrush current * (for a cold start at	100 VAC input	14 A typ.						
	25°C)	200 VAC input	28 A typ.						
	Rated Output Curre	nt	16 A	8.5 A	7 A	4.5 A			
	Voltage adjustment range *			/.ADJ)	Ti-				
Ripple & Noise		100 to 240 VAC input	70 mVp-p max.	90 mVp-p max.	100 mVp-p max.	80 mVp-p max.			
	voltage *	100 to 240 VAC input	70 mvp-p max.	90 mvp-p max.	100 mvp-p max.	во тур-р тах.			
	Input variation influ	ence *	0.5% max.						
Output	Load variation influ	ence *	1.0% max.						
Temperature variation influence		100 to 240 VAC input	0.05%/°C max.						
	Startup time *	100 VAC input	1,000 ms max.						
	Startup time *	200 VAC input	1,000 ms max.						
	Hold time ∗	100 VAC input	12 ms typ.	11 ms typ.	11 ms typ.	10 ms typ.			
	noid tille •	200 VAC input	70 ms typ.	55 ms typ.	55 ms typ.	55 ms typ.			
	Overload protection		Yes, automatic rese	t					
	Overvoltage protection *			Yes, 120% or higher of rated output voltage, power shut off (shut off the input voltage and turn or					
	Overvoitage protect	11011 ক	the input again)						
	Overheat protection		No						
Additional functions	Series operation		Yes (For up to two F	ower Supplies, external	diodes are required.)				
iunctions	Parallel operation		No (However, backı	ip operation is possible, e	external diodes are require	ed.)			
	Remote sensing		No						
	Remote control		Yes (Only for model	s with remote control opt	ion)				
	Output indicator		Yes (LED: Green)						
			3 kVAC for 1 min. (between all input terminals and output terminals) current cutoff 20						
			2 kVAC for 1 min. (b	etween all input terminal	s and PE terminals) currer	nt cutoff 20 mA			
Insulation	Withstand voltage		1 kVAC for 1 min. (b	etween all output termina	als and PE terminals) curre	ent cutoff 20 mA			
ilisulation			Only Remote contro	I					
			500 VAC for 1 min. (between all output terminals and RC terminals) current cutoff 20 mA						
	Insulation resistanc	е	100 M Ω min. (between all output terminals and all input terminals/PE terminals) at 500 VDC						
	Ambient operating t	emperature	-20 to 70°C (Derating is required according to the temperature. Refer to Engineering Data) (with condensation or icing)						
Emples	Storage temperature	e	-25 to 75°C (with no	condensation or icing)					
Environment	Ambient operating h	numidity	90% max. (Storage humidity: 90% max.)						
	Vibration resistance		10 to 55 Hz, 4.5 G max., 0.375-mm half amplitude for 2 h each in X, Y, and Z directions						
	Shock resistance		150 m/s ² , 3 times ea	ach in ±X, ±Y, ±Z directio	ns				
Deliabilia.	MTBF		135,000 hrs min.						
Reliability	Life expectancy *		10 years min.						
	Dimensions (W×H×I	D)	Refer to <i>Dimensions</i> on page 21.						
0	Weight		400 g						
Construction	Cooling fan		No						
	Degree of protection	n							
	Harmonic current er		Conforms to EN 610	000-3-2					
		Conducted Emissions		204-3 Class B, EN 55011	Class B				
	EMI *	Radiated Emissions		204-3 Class B, EN 55011					
	EMS			204-3 high severity levels					
Standards	Safety Standards	Safety Standards		UL 508 (Listing, excluding models with connector option or remote control option) UL 508 (Recognition, models with remote control option) UL 60950-1, UL 62368-1 (Recognition, OVCII [≤ 3,000 m], Pol2) CSA C22.2 No.107.1 (excluding models with connector option or remote control option) CSA C22.2 No.60950-1, No.62368-1 (excluding models with connector option or remote control optio EN 50178 (OVCIII [≤ 2,000 m], OVCII [> 2,000 m and ≤ 3,000 m], Pol2) EN/IEC 60950-1, EN/IEC 62368-1 (OVCII [≤ 3,000 m], Pol2) Conforms to EN/IEC 61558-2-16 Conforms to PELV (EN/IEC 60204-1)					
	Marine Standards		No	,					
	SEMI		No Conforms to F47-0706 (200 VAC input)						
	JEIVII		00111011110 10 1 47-07	oo (200 vao iriput)					

^{*} Refer to Ratings, Characteristics, and Functions on page 11.

		Power rating			150 W		
Item		Output voltage	5 V	12 V	15 V	24 V	48 V
		100 VAC input	78% typ.	84% typ.	85% typ.	87% typ.	85% typ.
Efficiency *1		200 VAC input	81% typ.	87% typ.	88% typ.	89% typ.	88% typ.
•		230 VAC input	81% typ.	87% typ.	88% typ.	90% typ.	88% typ.
	Voltage range *		Single phase, 85 to 264 VAC, 80 to 370 VDC				
	Frequency *		50 /60 Hz (47 to 450 Hz)				
	Commont etc	100 VAC input	3 A typ.				
	Current * 200 VAC input		1.8 A typ.				
Input	Power factor						
·	Leakage current *	100 VAC input	0.5 mA max.				
	Leakage current 4	200 VAC input	1 mA max.				
	Inrush current *	100 VAC input	14 A typ.				
	(for a cold start at 25°C)	200 VAC input	28 A typ.				
	Rated Output Currer	nt	21 A	13 A	10 A	6.5 A	3.3 A
	Voltage adjustment	range *	-10% to 15% (with	n V.ADJ)			
	Ripple & Noise		,	, , , , , , , , , , , , , , , , , , ,	00 \	440 \(\sigma - \s	100 \/
	voltage *	100 to 240 VAC input	100 mVp-p max.	110 mVp-p max.	80 mVp-p max.	110 mVp-p max.	120 mVp-p max
	Input variation influe	ence *	0.5% max.				
Output	Load variation influe	ence *	1.0% max.				
	Temperature variation influence	100 to 240 VAC input	0.05%/°C max.				
	variation influence	100 VAC input	1,000 ms max.				
	Startup time *	200 VAC input	1,000 ms max.				
		100 VAC input	14 ms typ.	10 ms typ.	10 ms typ.	10 ms typ.	11 ms typ.
	Hold time *	200 VAC input	80 ms typ.	55 ms typ.	55 ms typ.	55 ms typ.	55 ms typ.
	Overload protection	•	Yes, automatic res		oo mo typ.	oo mo typ.	oo mo typ.
	•				oltage, power shut o	off (shut off the input)	oltage and turn or
	Overvoltage protection *		Yes, 120% or higher of rated output voltage, power shut off (shut off the input voltage and turn on the input again)				
	Overheat protection		No				
Additional functions	Series operation		Yes (For up to two Power Supplies, external diodes are required.)				
iunctions	Parallel operation		No (However, backup operation is possible, external diodes are required.)				
+	Remote sensing		No				
	Remote control		Yes (Only for models with remote control option)				
	Output indicator		Yes (LED: Green)				
			3 kVAC for 1 min.(between all input terminals and output terminals) current cutoff 20 mA				
			2 kVAC for 1 min.(between all input terminals and PE terminals) current cutoff 20 mA				
Insulation	Withstand voltage		1 kVAC for 1 min.(between all output terminals and PE terminals) current cutoff 20 mA				
			Only Remote control 500 VAC for 1 min.(between all output terminals and RC terminals) current cutoff 20 mA				
	Insulation resistance	Δ	100 M Ω min.(between all output terminals and all input terminals/PE terminals) at 500 VDC				
			-20 to 70°C (Derating is required according to the temperature. Refer to Engineering Data) (with no				
	Ambient operating t	emperature	condensation or ic		g .o ano tompere		
Farring	Storage temperature	е	-25 to 75°C (with	no condensation or i	icing)		
Environment	Ambient operating h	numidity	90% max. (Storage humidity: 90% max.)				
	Vibration resistance		10 to 55 Hz, 4.5 G max., 0.375-mm half amplitude for 2 h each in X, Y, and Z directions				
	Shock resistance		150 m/s², 3 times each in ±X, ±Y, ±Z directions				
Reliability	MTBF		135,000 hrs min.				
	Life expectancy *		10 years min.				
	Dimensions (W×H×I	0)	Refer to Dimensio	ns on page 23.			
Construction	Weight		500 g				
	Cooling fan		No				
	Degree of protection		Conforms to EN 6	1000 2 2 (Applied b)	a at 909/ cmlass -f.	bo rotod load \	
	Harmonic current er	Conducted Emissions		1000-3-2 (Applicable		ne rated load.)	
	EMI *	Radiated Emissions		1204-3 Class B, EN 1204-3 Class B, EN			
	EMS	naulateu EIIIISSIONS		1204-3 Class B, EN 1204-3 high severity			
Standards	Safety Standards		UL 508 (Listing, excluding models with connector option or remote control option) UL 508 (Recognition, models with remote control option) UL 60950-1, UL 62368-1 (Recognition, OVCII [≤ 3,000 m], Pol2) CSA C22.2 No.107.1 (excluding models with connector option or remote control option) CSA C22.2 No.60950-1, No.62368-1 (excluding models with connector option or remote control option) EN 50178 (OVCIII [≤ 2,000 m], OVCII [> 2,000 m and ≤ 3,000 m], Pol2) EN/IEC 60950-1, EN/IEC 62368-1 (OVCII [≤ 3,000 m], Pol2)				
	Marine Standards		Conforms to EN/IE		. e.i [= 0,000 iii], i 0	·,	
	SEMI			0706 (200 VAC input	t)		
		etics and Functions of		JI OU (ZUU VAU IIIPUI	y		

Note: Refer to Ratings, Characteristics, and Functions on page 11.

		Power rating	300 W				
Item Output voltage							
item		100 VAC input	81% typ.	81% typ.	82% typ.	82% typ.	
Efficiency ste		•	* '		**		
Efficiency *		200 VAC input	85% typ.	85% typ.	87% typ.	87% typ.	
	V-14 ***	230 VAC input	85% typ. 86% typ. 87% typ. 87% typ.				
			Single phase, 85 to 264 VAC, 120 to 370 VDC				
	Frequency *	400 VAO :	50/60 Hz (47 to 63 Hz)				
	Current *	100 VAC input	4.2 A typ.				
		200 VAC input	2.1 A typ.				
Input	Power factor	400 VAO :	0.9 min.				
	Leakage current *	100 VAC input	0.5 mA max.				
		200 VAC input	1 mA max.				
	Inrush current * 100 VAC input (for a cold start at 25°C) 200 VAC input		14 A typ.				
	,		28 A typ.	1	1	1	
	Rated Output Currer		25 A	20 A	14 A	7 A	
	Voltage adjustment	1	-10% to 15% (with V.A				
		100 to 240 VAC input	140 mVp-p max.	270 mVp-p max.	150 mVp-p max.	330 mVp-p max.	
	Input variation influe		0.5% max.				
	Load variation influe	ence *	1.0% max.				
	Temperature	100 to 240 VAC input	0.05%/°C max.				
Output	variation influence	•					
	Startup time *	100 VAC input	1,000 ms max.				
		200 VAC input	1,000 ms max.		20 ma t		
	Hold time *	100 VAC input	30 ms typ.	30 ms typ.	30 ms typ. 40 ms typ. (Extended hold time type)	30 ms typ.	
	Hold time *	200 VAC input	30 ms typ.	25 ms typ.	30 ms typ. 40 ms typ. (Extended hold time type)	30 ms typ.	
	Overload protection		Yes, automatic reset				
	Overvoltage protection *		Yes, 120% or higher of rated output voltage, power shut off (shut off the input voltage and turn on the input aga				
	Overheat protection		Yes, power shut off (shut off the input voltage and turn on the input again)				
A	Series operation		Yes (For up to two Power Supplies, external diodes are required.)				
unctions	Parallel operation		, ,	• • • • • • • • • • • • • • • • • • • •	ernal diodes are required.)	1	
	· · · · · · · · · · · · · · · · · · ·		No	peration is possible, ext	errial diodes are required.)		
	Remote sensing Remote control		Yes (Only for models with remote control option)				
	Output indicator		Yes (LED: Green)				
	Output malcator		3 kVAC for 1 min. (between all input terminals and output terminals) current cutoff 20 mA				
			2 kVAC for 1 min. (between all input terminals and output terminals) current cutoff 20 mA				
	Withstand voltage		1 kVAC for 1 min. (between all input terminals and PE terminals) current cutoff 20 mA				
Insulation	Williotana Voltago		Only Remote control				
			Only Remote control 500 VAC for 1 min. (between all output terminals and RC terminals) current cutoff 20 mA				
	Insulation resistance	nsulation resistance		100 MΩ min. (between all output terminals and all input terminals/PE terminals) at 500 VDC			
	Ambient operating to		-20 to 70°C (Derating is required according to the temperature.) (with no condensation or icing)				
	Storage temperature	•	-20 to 70°C (Derating is required according to the temperature.) (with no condensation or icing) -25 to 75°C (with no condensation or icing)				
Environment	Ambient operating h		-25 to 75°C (with no condensation or icing) 90% max. (Storage humidity: 90% max.)				
	Vibration resistance		10 to 55 Hz, 4.5 G max., 0.375-mm half amplitude for 2 h each in X, Y, and Z directions				
	Shock resistance		1 1 1				
	MTBF		150 m/s², 3 times each in ±X, ±Y, ±Z directions 135,000 hrs min.				
Reliability			· · · · · · · · · · · · · · · · · · ·				
	Life expectancy *	2)	10 years min.				
	Dimensions (W×H×E	J)	Refer to Dimensions on page 25				
Construction	Weight		700 g				
	Cooling fan		Yes				
	Degree of protection						
	Harmonic current en		Conforms to EN 61000-				
	EMI *	Conducted Emissions		-3 Class B, EN 55011 C			
	-	Radiated Emissions	Conforms to EN 61204-	-3 Class B, EN 55011 C	lass B		
	EMS		Conforms to EN 61204-3 high severity levels				
Standards	Safety Standards		UL 508 (Listing, excluding models with remote control option) UL 508 (Recognition, models with remote control option) UL 60950-1, UL 62368-1 (Recognition, OVCII [≤ 3,000 m], Pol2) CSA C22.2 No.107.1 (excluding models with remote control option) CSA C22.2 No.60950-1, No.62368-1 (excluding models with remote control option) EN 50178 (OVCIII [≤ 2,000 m], OVCII [> 2,000 m and ≤ 3,000 m], Pol2) EN/IEC 60950-1, EN/IEC 62368-1 (OVCII [≤ 3,000 m], Pol2) Conforms to EN/IEC 61558-2-16 Conforms to PELV (EN/IEC 60204-1)				
	Marine Standards		No				
	+			(200 VAC in ~:-t)			
	SEMI		Conforms to F47-0706 (200 VAC input)				

^{*} Refer to Ratings, Characteristics, and Functions on page 11.

		Power rating		60	00 W			
Item		Output voltage	12 V	15 V	24 V	48 V		
		100 VAC input	84% typ.	84% typ.	85% typ.	88% typ.		
Efficiency *		200 VAC input	88% typ.	88% typ.	89% typ.	92% typ.		
Efficiency &		230 VAC input	88% typ.	88% typ.	90% typ.	92% typ.		
	Valtaga yanga da	230 VAC IIIput						
	Voltage range *		Single phase, 85 to 264 VAC, 120 to 350 VDC					
	Frequency *	T	` ′	50 /60 Hz(47 to 63 Hz)				
	Current *	100 VAC input	7.7 A typ.					
		200 VAC input	3.8 A typ.					
Input	Power factor		0.9 min.					
	Lookaga aurrant *	100 VAC input	0.5 mA max.					
	Leakage current *	200 VAC input	1 mA max.					
	Inrush current *	100 VAC input	14 A typ.					
	(for a cold start at 25°C)	200 VAC input	28 A typ.					
	Rated Output Curre		50 A	40 A	27 A	13 A		
	Voltage adjustment		-10% to 15% (with V.A	DJ)				
		100 to 240 VAC input	170 mVp-p max.	170 mVp-p max.	280 mVp-p max.	340 mVp-p max.		
	Input variation influ		0.5% max.	170 mvp p max.	200 mvp p max.	очо шур р шах.		
	Load variation influ	ence *	1.0% max.					
	Temperature variation influence	100 to 240 VAC input	0.05%/°C max.					
Output	variation influence	100 VAC innet	1 000 ms may					
	Startup time *	100 VAC input	1,000 ms max.					
		200 VAC input	1,000 ms max.		00 /			
		100 VAC input	30 ms typ.	25 ms typ.	30 ms typ. 40 ms typ. (Extended	30 ms typ.		
		100 VAC IIIpat	ου ma typ.	20 mo typ.	hold time type)	ου ma typ.		
	Hold time *				30 ms typ.			
		200 VAC input	30 ms typ.	25 ms typ.	40 ms typ. (Extended	30 ms typ.		
			, see .yp.		hold time type)			
	Overload protection		Yes, automatic reset		II.	Ш.		
	Overvoltage protect	ion *	Yes, 120% or higher of rated output voltage, power shut off (shut off the input voltage and turn on the input aga					
	Overheat protection		Yes, power shut off (shut off the input voltage and turn on the input again)					
Additional	Series operation		Yes (For up to two Power Supplies, external diodes are required.)					
unctions	Parallel operation		'		models with parallel opera	tion option) only)		
			` '	oupplies, 301 3-G00024 (models with parallel opera	mon opnon) only).		
	Remote sensing		No					
	Remote control		Yes (Only Remote control)					
	Output indicator		Yes (LED: Green)					
			3 kVAC for 1 min. (between all input terminals and output terminals) current cutoff 20 mA					
			2 kVAC for 1 min. (between all input terminals and PE terminals) current cutoff 20 mA					
Insulation	Withstand voltage		1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA					
ouiution			Only Remote control 500 VAC for 1 min. (between all output terminals and RC terminals) current cutoff 20 mA					
			500 VAC for 1 min. (bet	tween all output terminals	s and RC terminals) currer	nt cutoff 20 mA		
	Insulation resistance	е	100 MΩ min. (between all output terminals and all input terminals/PE terminals) at 500 VDC					
	Ambient operating t	emperature	-20 to 70°C (Derating is	s required according to the	ne temperature.) (with no c	condensation or icing		
	Storage temperature	e	−25 to 75°C (with no condensation or icing)					
Environment	Ambient operating I	numidity	90% max. (Storage humidity: 90% max.)					
	Vibration resistance)	10 to 55 Hz, 4.5 G max., 0.375-mm half amplitude for 2 h each in X, Y, and Z directions					
	Shock resistance		150 m/s², 3 times each in ±X, ±Y, ±Z directions					
	MTBF		135,000 hrs min.					
Reliability	Life expectancy *		'					
	Dimensions (W×H×I	ח	10 years min.					
	<u> </u>	اد	Refer to <i>Dimensions</i> on page 26.					
Construction	Weight		1,050 g					
	Cooling fan		Yes					
	Degree of protection							
	Harmonic current er	missions	Conforms to EN 61000-	-3-2				
	EMI *	Conducted Emissions	Conforms to EN 61204	-3 Class B, EN 55011 Cla	ass B			
	LIVII T	Radiated Emissions	Conforms to EN 61204	-3 Class B, EN 55011 Cla	ass B			
	EMS		Conforms to EN 61204-3 diass B, EN 33011 diass B					
				ing models with remote of	ontrol option)			
			UL 508 (Recognition, m	nodels with remote contro	ol option)			
Standards			UL 508 (Recognition, models with remote control option) UL 60950-1, UL 62368-1 (Recognition, OVCII [≤ 3,000 m], Pol2)					
o.u.i.uai us	Safaty Standarda			excluding models with rer		ol option)		
	Safety Standards			i, No.62368-1 (excluding 000 m], OVCII [> 2,000 r	models with remote control n and < 3 000 ml Pol2)	οι ομιιοι1)		
				:C 62368-1 (OVCII [≤ 3,0				
			Conforms to EN/IEC 61	558-2-16	. ,			
			Conforms to PELV (EN/IEC 60204-1)					
	Marine Standards		No	·		·		
	SEMI		Conforms to F47-0706	(200 VAC input)				
	in and Ok a seed of the	and Functions on no		. ,				

^{*} Refer to Ratings, Characteristics, and Functions on page 11.

Ratings, Characteristics, and Functions

Efficiency			The value is when both rated output voltage and rated output current are satisfied.		
	Voltag	e range ency	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.		
	Currer	nt	The value is when both rated output voltage and rated output current are satisfied.		
Input	Leaka	ge current	The values are determined according to the Act on Power Supply Safety of Electrical Appliances and Materials.		
	1111111111	current	For a cold start at 25°C. Refer to the following figure.		
	Voltage adjustment range		If the output voltage adjuster (V. ADJ) is turned, the voltage will increase by more than +15 of the voltage adjustment range. When adjusting the output voltage, confirm the actual output voltage from the Power Supply and be sure that the load is not damaged.		
	Ripple	& Noise voltage	The value is when both rated output voltage and rated output current are satisfied. A characteristic when the ambient operating temperature is 25°C.		
Output	Input	variation influence	This is the maximum variation in the output voltage when the input voltage is gradually changed within the allowable input voltage range at the rated output voltage and rated output current.		
	Load v	variation influence	This is the value when the output current is changed from 0 A to the rated output current while the input voltage is within the allowable input voltage.		
	Startu	p time	The value is when both rated output voltage and rated output current are satisfied. For a cold start at 25°C. Refer to the following figure.		
	Hold time		The value is when both rated output voltage and rated output current are satisfied. At 25°C. Refer to the following figure.		
Additional functions	Overvoltage protection		Refer to Overvoltage Protection on page 18 for the time when input voltage shuts off and input turns on again.		
Reliability	Life expectancy		Refer to Recommended Replacement Periods and Periodic Replacement for Preventive Maintenance on page 33 for details.		
Ctondord:	ЕМІ	Conducted Emissions	The 150-W and higher models conform to Class B when an aluminum plate is set under the		
Standards EN	EIVII	Radiated Emissions	Power Supply.		

Standard Compliance

- The input voltage range for compliance with EC Directives and other safety standards (UL, EN, etc.) is 90 to 264 VAC.
- EN/IEC 61558-2-16

To comply with EN/IEC 60204-1 (Machine Safety), a transformer is required in the control circuit. If, however, a Power Supply that has a built-in transformer that complies with EN/IEC 6155-8-2-16 is used, an external transformer is not required.

• Safety standard targets during a DC input *

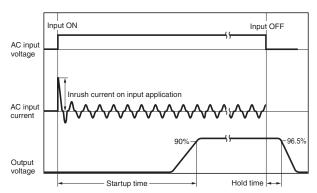
During a DC input, UL 62368-1, cUR (CSA C22.2 No. 62368-1), EN/IEC 62368-1, EN 50178, EN/IEC 61558-2-16, and EN/IEC 60204-1 are safety standard targets. (However, the input voltage range is 120 to 320 VDC. The safety standards during DC input are not acquired for the S8FS-G60048□.)

It is possible to comply with the safety standards by connecting a UL-authenticated fuse. Select a UL-authenticated fuse that satisfies the following conditions:

S8FS-G015 (320 VDC or above, 3 A) S8FS-G050 (320 VDC or above, 4 A) S8FS-G100 (320 VDC or above, 8 A) S8FS-G150 (320 VDC or above, 10 A) S8FS-G300 (320 VDC or above, 12 A) S8FS-G600 (320 VDC or above, 20 A)

- To comply with the PELV output of the EN/IEC 60204-1, ground the output negative side (-V) to PE. *
- * Applicable to products produced from May 2018

Inrush Current, Startup Time, Output Hold Time

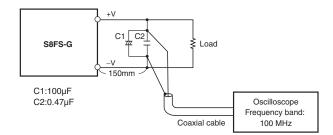


Note: The total inrush current of all of the Power Supplies will flow for parallel operation or backup operation.

Sufficiently check the fusing characteristics of fuses and the operating characteristics of breakers and select fuses and breakers so that external fuses will not burn out or breakers will not operate due to inrush current.

Ripple Noise Voltage

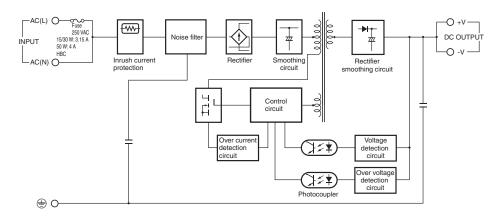
The specified standard for the ripple voltage noise was measured with a measurement circuit that is based on JEITA standard RC-9131A.



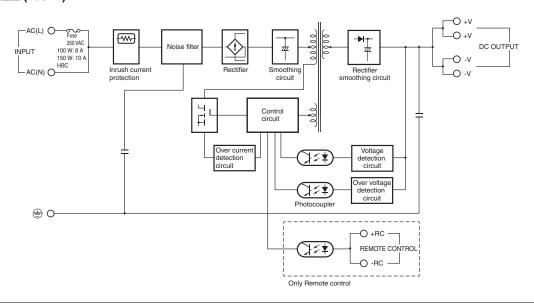
Connections

Block Diagrams

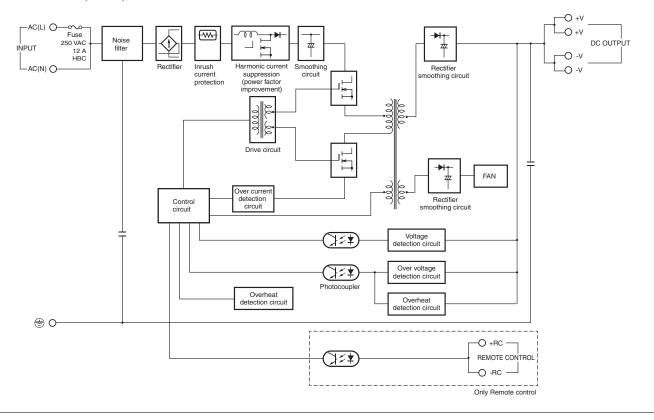
S8FS-G015□□□ (15 W) S8FS-G030□□□ (30 W) S8FS-G050□□□ (50 W)



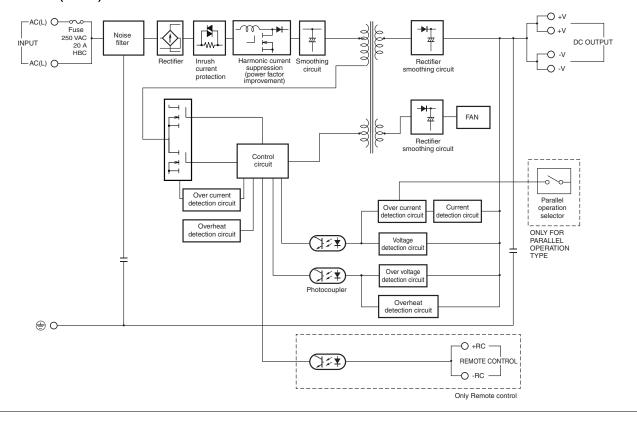
S8FS-G100□□□ (100 W) S8FS-G150□□□ (150 W)



S8FS-G300□□□ (300 W)



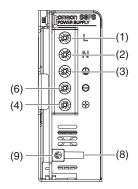
S8FS-G600□□□ (600 W)



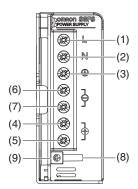
Construction and Nomenclature

Nomenclature

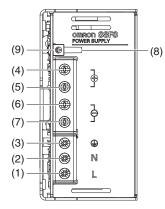




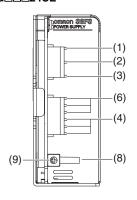
\$8FS-G100□□□ \$8FS-G150□□□



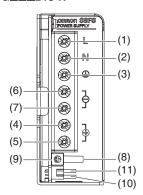
S8FS-G300□□□ S8FS-G600□□□



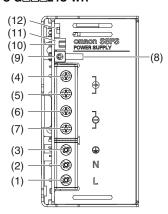
S8FS-G□□□24CE



S8FS-G□□□24C-R



S8FS-G□□□24C-WR



No.	Terminal name	Name	Function	
(1)	L	Input terminals	Connect the input lines to these terminals. *1	
(2)	N	Input terminais	Connect the input lines to these terminals. *1	
(3)	PE	Protective Earth terminal ()	Connect the ground line to this terminal. *2	
(4)	+V1			
(5)	+V2	DC output terminals	Connect the load lines to these terminals.	
(6)	-V1		Connect the load lines to these terminals.	
(7)	-V2			
(8)		Output indicator (DC ON: green)	Lights while a direct current (DC) output is ON.	
(9)		Output voltage adjuster (V.ADJ)	Use to adjust the voltage.	
(10)	+RC	Remote control terminals	Wire for remote control.	
(11)	-RC	nemote control terminals	wire for remote control.	
(12)		Parallel operation switch	To operate in parallel, set the switch to the "PARALLEL" side.	

^{*1.} The fuse is located on the (L) side. It is not user-replaceable. For a DC input, connect the positive voltage to the L terminal.

Input and Output Connectors (Connector type)

-	•	•				
			Applicable connector	Housing	Terminals	Applicable crimp tool
Input side	All models	CN110	B3P5-VH (LF) (SN)	VHR-5N		
Output side S8FS-S8FS-S8FS-	S8FS-G01524□E S8FS-G03024□E S8FS-G05024□E	CN510	B4P-VH (LF) (SN)	VHR-4N	Reel: SVH-21T-P1.1 Bulk: BVH-21T-P1.1	YC-160R
	S8FS-G10024□E S8FS-G15024□E		B6P-VH (LF) (SN)	VHR-6N		
Manufacturer		J.S.T. Mfg. Co., Ltd.				

Note: The female connectors that are required for wiring are not provided with the Power Supply.

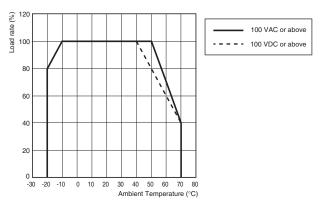
^{*2.} This is the protective earth terminal specified in the safety standards. Always ground this terminal.

Engineering Data

Derating Curves

Output Derating

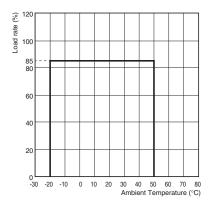
15 W, 30 W, 50 W, 100 W, and 150 W



- Note: 1. (For customers using the unit with an AC input)
 At a voltage below 100 VAC, reduce the load below the range of the derating curve shown above by the solid line, at the rate of 1.3%/V.s (40°C < Ambient temperature ≤ 70°C)
 - 2. (For customers using the unit with a DC input)
 At a voltage below 100 VDC, reduce the load below the range of the derating curve shown above by the dashed line, by multiplying with the coefficient 0.9.

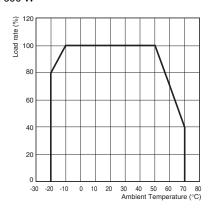
Parallel Operation

For Models with Parallel Operation Option



Note: At a voltage below 100 VAC, reduce the load at the rate of 1.3%/V.

300 W and 600 W

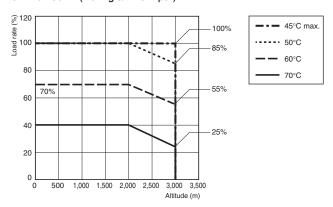


Note: At a voltage below 100 VAC, reduce the load at the rate of

This Power Supply can be used at an altitude of 3,000 m.

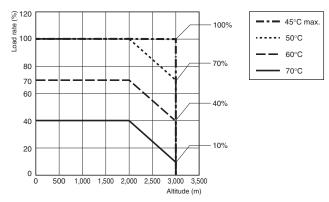
Between 2,000 and 3,000 m, derate the load according to the following derating curve.

15 W to 150 W (During an AC input)



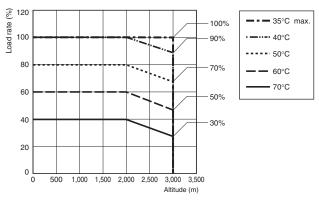
Note: At a voltage below 100 VAC, reduce the load at the rate of 1.3%/V. ($40^{\circ}C$ < Ambient temperature $\leq 70^{\circ}C$)

300 W and 600 W



Note: At a voltage below 100 VAC, reduce the load at the rate of 1.3%/V.

15 W to 150 W (During a DC input)

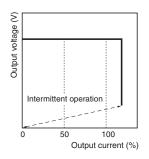


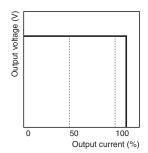
Note: At a voltage below 100 VDC, reduce the load by multiplying with the coefficient 0.9.

Engineering Data

Overload Protection

The load and the Power Supply are automatically protected from overcurrent damage by this function. Overload protection is activated if the output current rises above 105 to 160% of the rated current. When the output current returns within the rated range overload protection is automatically cleared.





Note: 1. 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.

Overvoltage Protection

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.

If an excessive voltage that is 120% of the rated voltage or more is output, the output voltage is shut OFF.

Reset the input power by turning it OFF for at least three minutes and then turning it back ON again.

Overheating Protection (300 W and 600 W)

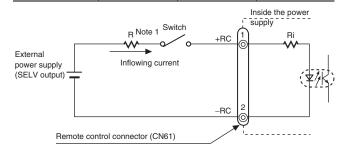
If the internal temperature of the Power Supply rises excessively as a result of fan failure or any other reason, the overheat protection circuit will be triggered to shut OFF the output voltage.

To restore operation, turn OFF the input power supply long enough for the Power Supply to cool sufficiently and then turn it ON again.

Remote Control Function (Only Remote control)

This function is to turn ON/OFF the output by applying a voltage to the remote control connector from a DC power Supply (external power supply) other than this Power Supply.

Built-in	Voltage between	Inrush current	
resistance Ri (Ω)	Output ON	Output OFF	(mA)
780	4.5 to 12.5	0 to 0.5	20 max.



Usage example of the remote control

Connectors used:

	CN61	Applicable connector	Applicable contact	
Model	B2B-XH-AM	XHP-2	SXH-001T-P0.6 or SXH-002T-P0.6	
Manufacturer	J.S.T. Mfg. Co., Ltd.			

Applicable crimp tool: YC-110R (J.S.T. Mfg. Co., Ltd.) or YRS-110 (J.S.T. Mfg. Co., Ltd.)

- Note: 1. When the external power supply is 4.5 to 12.5 V, the current limiting resistor R is not required. When it is 12.5 to 24.5 V, insert 1.5 k Ω as the current limiting resistor R.
 - 2. Reverse connection of the connector may cause damage on the internal parts.
 - The +RC and -RC terminals are the secondary circuit of the Power Supply. Use an SELV output power supply for an external power supply. The remote control circuit is insulated from the secondary output of the Power Supply (functional insulation).

Reference Value

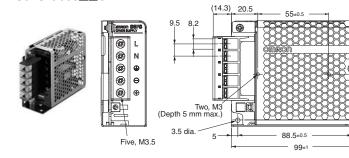
	Value			
Reliability (MTBF)	Single phase model 15W: 970,000 30W: 970,000 50W: 880,000 100W: 730,000 150W: 620,000 300W: 200,000 600W: 190,000			
Definition	MTBF stands for Mean Time Between Failures, which is calculated according to the probability of accidental device failures, and indicates reliability 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.			

Dimensions (Unit: mm)

Power Supplies

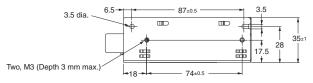
15 W and 30 W

S8FS-G015□□C S8FS-G030□□C



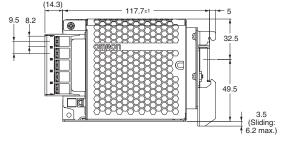
Panel mounting holes dimensions

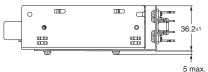
r unci mounting noics unichaiona				
	Using the mounting holes in the Power Supply	Using the screw holes in the Power Supply		
Side Mounting	Two, M3 40±0.5	Two, 3.5 dia.		
Bottom Mounting	Two, M3	Two, 3.5 dia.		



S8FS-G015□□CD S8FS-G030□□CD

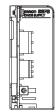


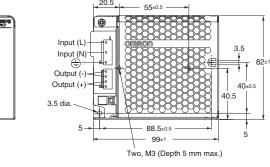


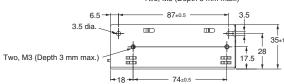


\$8FS-G015□□E \$8FS-G030□□E







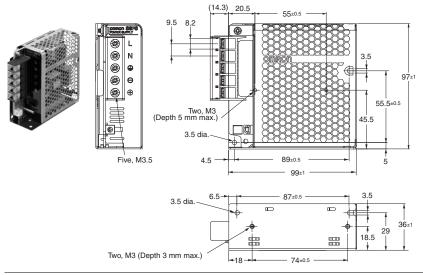


Panel mounting holes dimensions

r unor mounting notice dimensions					
	Using the mounting holes in the Power Supply	Using the screw holes in the Power Supply			
Side Mounting	Two, M3 40±0.5	Two, 3.5 dia.			
Bottom Mounting	Two, M3	Two, 3.5 dia.			

50W

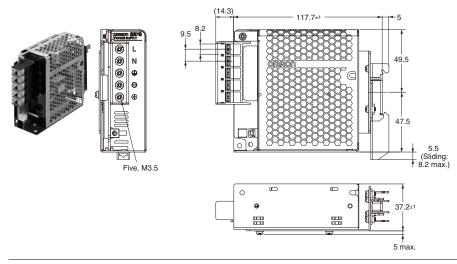
S8FS-G050□□C



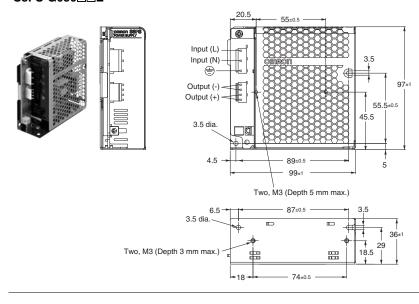
Panel mounting holes dimensions

	Using the mounting holes in the Power Supply	Using the screw holes in the Power Supply
Side Mounting	Two, M3	Two, 3.5 dia.
Bottom Mounting	Two, M3	Two, 3.5 dia.

S8FS-G050□□CD



S8FS-G050□□E



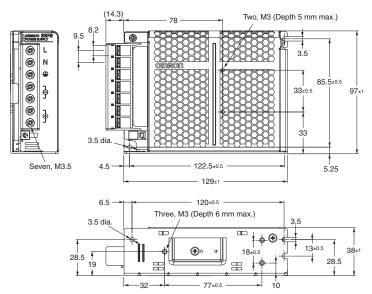
Panel mounting holes dimensions

	Using the mounting holes in the Power Supply	Using the screw holes in the Power Supply
Side Mounting	55.5±0.5 Two, M3	Two, 3.5 dia.
Bottom Mounting	Two, M3	Two, 3.5 dia.

100W

S8FS-G100□□C

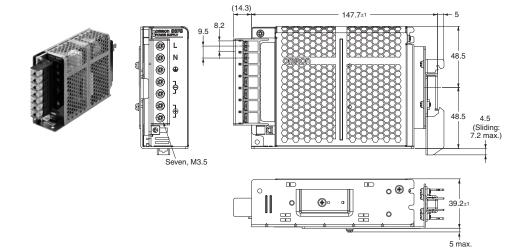




Panel mounting holes dimensions

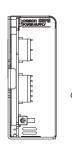
	Using the mounting holes in the Power Supply	Using the screw holes in the Power Supply
Side Mounting	Two, M3	Two, 3.5 dia.
Bottom Mounting	13±0.5 Three, M3	Three, 3.5 dia.

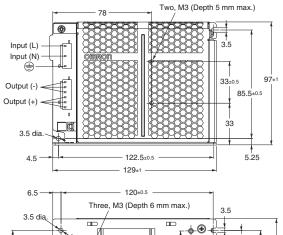
S8FS-G100□□CD

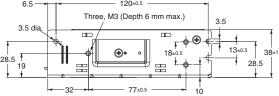


S8FS-G100□□E









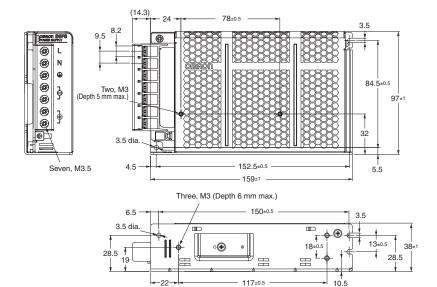
Panel mounting holes dimensions

	Using the mounting holes in the Power Supply	Using the screw holes in the Power Supply
Side Mounting	Two, M3	Two, 3.5 dia.
Bottom Mounting	Three, M3	Three, 3.5 dia.

150W

S8FS-G150□□C



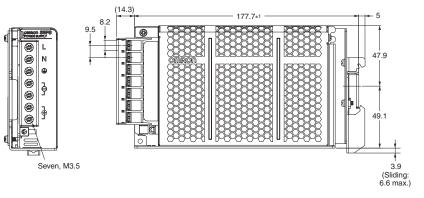


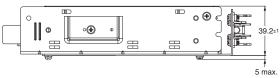
Panel mounting holes dimensions

	Using the mounting holes in the Power Supply	Using the screw holes in the Power Supply	
Side Mounting	Two, M3	Two, 3.5 dia.	
Bottom Mounting	Three, M3 13±0.5	Three, 3.5 dia.	

S8FS-G150□□CD

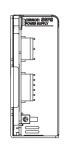


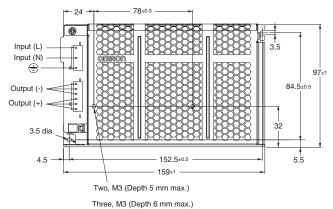


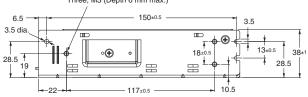


S8FS-G150□□E

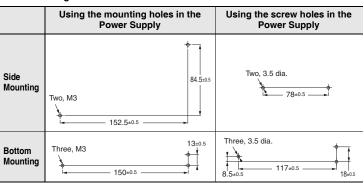






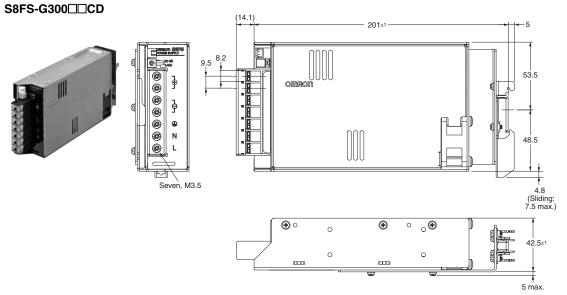


Panel mounting holes dimensions



300W

S8FS-G300□□C Two, M4 (Depth 5 mm max.) Panel mounting holes dimensions Using the screw holes in the Power Supply **⊗** Two, 4.5 dia. 102±1 Side Mounting 64±0.5 Four, 4.5 dia. 50.5 **Bottom** Mounting 74±0.5 Seven, M3.5 (3.5)170±1 60 74±0.5 • **(** \odot 20±0.5 12 Four, M4 (Depth 5 mm max.)

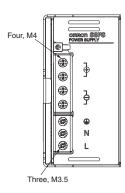


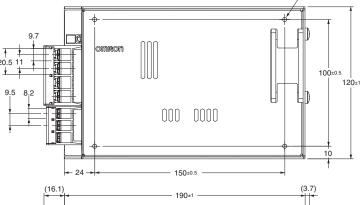
Note: Use a Front-mounting Bracket (S82Y-FSG-30F) when the DIN Rail is not strong enough for your usage environment.

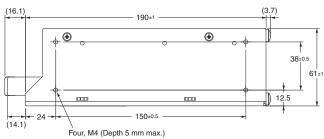
600W

S8FS-G600□□C

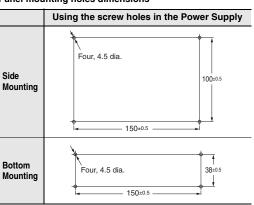








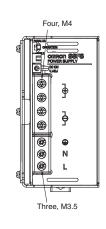
Panel mounting holes dimensions

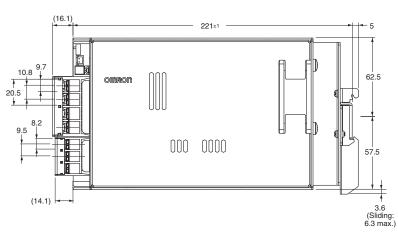


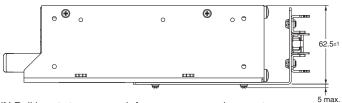
Four, M4 (Depth 5 mm max.)

S8FS-G600□□CD









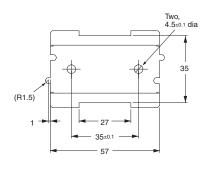
Note: Use a Front-mounting Bracket (S82Y-FSG-60F) when the DIN Rail is not strong enough for your usage environment.

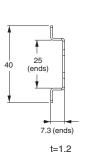
Mounting Brackets (Order Separately)

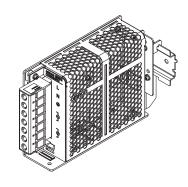
Use the Front-mounting Brackets together with DIN Rail-mounting Power Supplies (S8FS-G CD).

Power rating	Mounting direction	Model
15 W, 30 W, 50 W 100 W, 150 W and 300 W	Front-mounting	S82Y-FSG-30F
600 W	Front-mounting	S82Y-FSG-60F

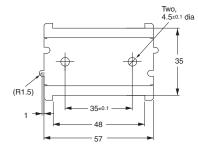
S82Y-FSG-30F

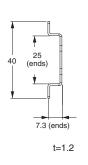


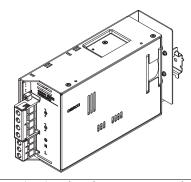




S82Y-FSG-60F







Note: Replacement brackets from the S8JX-N, S8JX-P, and S8VM series are available. Use these brackets for a front mounting configuration using direct mounting models.

Refer to the data sheet (Cat. No.: T216-E1, T217-E1, and T218-E1) for more information.

Terminal cover (Order Separately)

Power rating	Applicable models	Terminal Cover model number
15 W	S8FS-G015□□□	
30 W	S8FS-G030□□□	S82Y-FSG-C5P
50 W	S8FS-G050□□□	
100 W	S8FS-G100□□□	
150 W	S8FS-G150□□□	S82Y-FSG-C7P
300 W	S8FS-G300□□□	
600 W	S8FS-G600□□□	S82Y-FSG-C7P-L (Input Output)

Note: A Terminal Block Cover is provided with the Power Supply as a standard accessory. You can purchase another one if your Cover is damaged or lost.

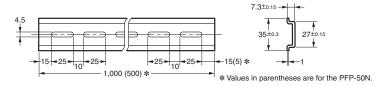
DIN Rail (Order Separately)

(Unit: mm)

Mounting Rail (Material: Aluminum)

PFP-100N PFP-50N

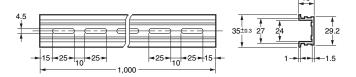




Mounting Rail (Material: Aluminum)

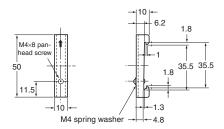
PFP-100N2





End Plate PFP-M

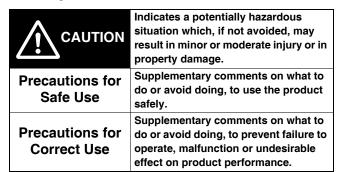




Note: If there is a possibility that the Unit will be subject to vibration or shock, use a steel DIN Rail. Otherwise, metallic filings may result from aluminum abrasion.

Safety Precautions

Refer to Safety Precautions for All Power Supplies. Warning Indications



Meaning of Product Safety Symbols



Used to warn of the risk of electric shock under specific conditions.



Used to warn of the risk of minor injury caused by high temperatures.



Use to indicate prohibition when there is a risk of minor injury from electrical shock or other source if the product is disassembled.



Used for general mandatory action precautions for which there is no specified symbol.

/!\CAUTION

Minor electric shock, fire, or Product failure may occasionally occur. Do not disassemble, modify, or repair the Product or 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: 0.74 to 1.13N·m M4: 1.08 to 1.32N·m



Minor injury due to electric shock may occasionally occur. Do not touch the terminals while power is being supplied.



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

Ambient Operating and Storage Environments

- Store the Power Supply at a temperature of –25 to 75°C and a humidity of 90% max.
- The internal parts may occasionally deteriorate or be damaged.
 Use the Power Supply within the derating curve.
- Use the Power Supply at a humidity of 90% max.
- Do not use locations where liquids, foreign matter, or corrosive gases may enter the interior of the Power supplies.

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 contractors or other devices that are a vibration source.
- Install the Power Supply well away from any sources of strong, high-frequency noise and surge.

Mounting

 Take adequate measures to ensure proper heat dissipation to increase the long-term reliability of the Power Supply.
 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 S8FS-G015 ot S8FS-G150 or are cooled by natural convection. Mount them so that air convection will occur around them.

The S8FS-G300 and S8FS-G600 are cooled by forced airflow. Do not allow the ventilation holes to be blocked. The effectiveness of cooling would be reduced.

- When cutting out holes for mounting, make sure that cuttings do not enter the interior of the Power supplies.
- The internal parts may occasionally deteriorate and be broken due to adverse heat radiation. Do not loosen the screws on the Power Supply.
- If you mount the Power Supply with the holes provided on the chassis, do not exceed the depth given in the dimensional diagrams.

Use the following tightening torques.

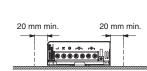
M3 screws: 0.48 to 0.59 N·m M4 screws: 1.08 to 1.32 N·m

Mounting

<Standard mounting> S8FS-G015□□□ to 150□□□ Bottom mounting

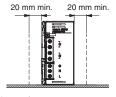
20 mm min. 20 mm min.

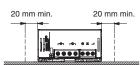
Side (horizontal orientation) mounting

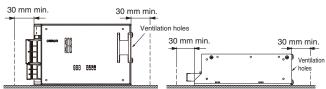


S8FS-G300 and S8FS-G600

Bottom mounting Side (horizontal orientation) mounting

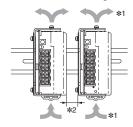






Note: Use a metal plate as the mounting surface.

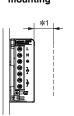
DIN rail mounting



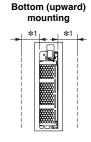
- *1. Convection of air.
- ***2.** 20 mm min.

<Other mounting types> *2 S8FS-G015 \square to 150 \square

Side (vertical orientation) mounting



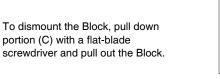




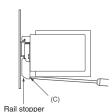
- ***1.** 20 mm min.
- *2. Applicable to products produced from May 2018

<DIN Rail Mounting>

To mount the Power Supply to a DIN Rail, hook portion (A) of the Power Supply onto the DIN Rail and press the Power Supply in direction (B) until you hear it lock into place.







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 150-N force to the terminal block when tightening it.
- Be sure to remove the sheet covering the Power Supply 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 S8FS-G to prevent smoking or ignition caused by abnormal loads.

Terminals and Wiring (Screw terminal block type)

Terminals	Model	Recommendes Wire Gauges	
	S8FS-G015□□□	AWG12-22	
Input	S8FS-G030□□□ to 100□□□	AWG12-20	
	S8FS-G150□□□ to 600□□□	AWG12-16	
	S8FS-G01512□ to 01524□	AWG12-22	
	S8FS-G03024□	AVVG12-22	
	S8FS-G01505□		
	S8FS-G03012□, 03015□	AWG12-20	
	S8FS-G05015□, 05024□	AVVG12-20	
	S8FS-G15048□		
	S8FS-G05012□	AWG12-18	
	S8FS-G10024□	AWG12-18	
	S8FS-G03005□		
Output	S8FS-G10015□	AWG12-16	
Output	S8FS-G15024□		
	S8FS-G30048□		
	S8FS-G05005□		
	S8FS-G10012□	AWG12-14	
S8FS-G15015□			
	S8FS-G10005□		
	S8FS-G15005□, 15012□	AWG12	
	S8FS-G30012□ to 30024□		
	S8FS-G60015□ to 60048□	AWG10-12	
	S8FS-G60012□	AWG10	
Protective earth terminal	S8FS-G015□□□ to 600□□□	AWG12-14	

Note: The current capacity per output terminal is given in the following table.

S8FS-G015 to S8FS-G300 : 20 A

S8FS-G600□□□: 30 A

Use two terminals together if the current flow is higher than the rated terminal current.

Terminals and Wiring (Connector type)

Terminals	Model	Recommendes Wire Gauges
Input	S8FS-G01524□E to 15024□E	AWG18
Output	S8FS-G01524□E to 15024□E	AWG18

- Note: 1. The current capacity per output terminal is 5 A.

 Use two or more terminals together if the current flow is higher than the rated terminal current.
 - Do not insert and remove any connector more than 20 times.
 - 3. Refer to Input and Output Connectors on page 15 for the model numbers of the input and output connectors.

Overcurrent Protection

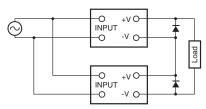
- Internal parts may possibly deteriorate or be damaged if a shortcircuited, overload, or boost load state continues during operation.
- Internal parts may possibly deteriorate or be damaged if the Power Supply is used for applications with frequent inrush current or overloading at the load end. Do not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

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.

Series Operation

Two Power Supplies can be connected in series operation.



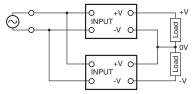
Note: 1. The diode is connected as shown in the figure. If the load is short-circuited, a reverse voltage will be generated inside the Power Supply. If this occurs the Power Supply may possibly deteriorate or be damaged. Always connect a diode as shown in the figure. Select a diode having the following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

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

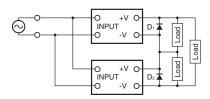
Although Power Supply having different specifications can be connected in series, the current flowing through connected in series, the current flowing through the load must not exceed the smaller rated output current.

<Making Positive/Negative Outputs>

• The outputs are floating outputs (i.e., the primary circuits and secondary circuits are separated). You can therefore make positive/negative outputs by using two Power Supplies. You can make positive/negative outputs with any of the models. If you use positive/negative outputs, connect two Power Supplies of the same model as shown below. You can combine models with different output capacities and output voltages. However, use the lower of the two rated rated output currents as the current to the loads.



 Depending on the model, internal circuits may be damaged due to startup failure when the power is turned ON if loads such as a servomotor or operational amplifier may operate in series.
 Therefore, connect bypass diodes (D1, D2) as shown in the following figure. If the list of models that support series connection of outputs says that an external diode is not required, an external diode is also not required for positive/negative outputs.

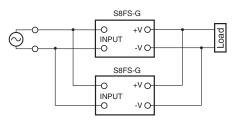


 Use the following information as a guide to the diode type, dialectic strength, and current.

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

Parallel Operation

Parallel operation is used when the output current from one Power Supply is insufficient for the load. Power Supplies are connected in parallel to increase the output current.



Power Supplies without the Parallel Operation Option

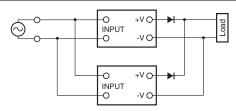
Parallel operation is not possible.

S8FS-G60024□-W□ (Models with the Parallel Operation Option)

Up to five Power Supplies can be connected in parallel operation. You must meet the following conditions to use parallel operation.

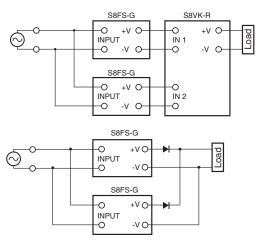
- The internal parts may occasionally deteriorate or be damaged. To operate in parallel, set the switch to the "PARALLEL" side.
- For parallel operation, always use Power Supplies with the same model number.
- Use the output voltage adjusters (V. ADJ) to adjust the difference in the output voltages to 50 mV or less between Power Supplies that are used in parallel operation.
- The length and thickness of each wire connected to the load must be the same so that there is no difference in the voltage drop value between the load and the output terminals of each Power Supply.
- Drastic fluctuations in the load (including fluctuations that occur
 when starting and starting the load) may reduce the output voltage.
 If fluctuations in the output voltage that result from drastic
 fluctuations in the load would be a problem, connect external
 diodes as shown in the following diagram.
- Use the following information as a guide to the diode type, dialectic strength, and current.

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



Backup Operation

Backup operation is possible if you use two Power Supplies of the same model. Even if one Power Supplies fails, operation can be continued with the other Power Supply. Make sure that the maximum load does not exceed the capacity of one Power Supply. Connect the S8VK-R or external diodes as shown in the following figure for backup operation. Refer to the S8VK-R datasheet (Cat. No.: T059) for information on using the S8VK-R.



Use the following information as a guide to the diode type, dialectic strength, and current.

Туре	Schottky Barrier diode
Dielectric strength (V _{RRM})	Twice the output voltage or above
Forward current (I _F)	Twice the rated output current or above

In Case There Is No Output Voltage

There is a possibility that overload protection, overvoltage protection, or overheating protection are functioning. The internal protection may operate if a large amount of surge voltage, such as a lightning inrush, is applied to the input. In addition, other possible causes for some models include stoppage of the built-in fan and the remote control function (OFF). Check the following five points. If there is still no output voltage, contact your OMRON representative.

- Checking Overload Protection: Remove the load wires and check whether the load is in an overload state or is short-circuited.
- Checking Overvoltage or Internal Protection:
 Turn the power supply OFF, leave it OFF for at least three minutes, and then turn it ON again to see if this clears the condition.
- Checking Overheating Protection (300 W/600 W): Turn OFF the input power supply long enough for the Power Supply to cool sufficiently and then turn it ON again.
- Checking for Built-in Fan Stoppage (300 W/600 W): Check whether or not the built-in fan has stopped.
- Confirming Remote Control Operation (Power Supplies with Remote Control):

Check whether or not the +RC and -RC terminals are open. Connect the terminals as specified.

Charging a Battery

If you connect a battery as the load, install overcurrent control and overvoltage protection circuits.

Built-in Fan Replacement

The built-in fan cannot be replaced. Audible Noise at Power ON

A harmonic current suppression circuit is built into the Power Supply. This circuit can create noise when the input is turned ON, but it will last only until the internal circuits stabilize and does not indicate any problem in the Power Supply.

Period and Terms of Warranty

Warranty Period

The Power Supply warranty is valid for a period of five years from the date of shipment from the factory.

Terms of Warranty

The warranty is valid only for the following operating conditions.

- 1. Average ambient operating temperature of the Power Supply: 40°C max. (See note.)
- 2. Average load rate of 80% max. (See note.)
- 3. Mounting method: Standard mounting
- 4. Rated input voltage

Note: The maximum ratings must be within the derating curve.

If the Power Supply fails for reasons attributable to OMRON within the above warranty period, OMRON will repair or replace the faulty part of the Power Supply at the place of purchase or the place where the Power Supply delivered without charge.

This warranty does not cover the following types of failures.

- (1) Failures that result from handling or operation of the Power Supply under conditions or in environments that are not given in this document and not given in any other specifications exchanged between OMRON and the customer
- (2) Failures that originate in causes other than the delivered product itself
- (3) Failures caused by disassembly, modification, or repair of the Power Supply by anyone other than OMRON
- (4) Failures caused by applications or uses for which the Power Supply was not originally intended
- (5) Failures caused by factors that could not be anticipated with the scientific or technical knowledge available when the Power Supply was shipped
- (6) Failures caused by other causes for which OMRON is not responsible, such as natural disasters and other acts of God

This warranty is limited to the individual Power Supply that was delivered and does not cover any secondary, subsequent, or related damages.

Recommended Replacement Periods and Periodic Replacement for Preventive Maintenance

The recommended replacement period for preventive maintenance is greatly influenced by the application environment of the Power Supply. As a guideline, the recommended replacement period is 7 to 10 years.*

To prevent failures or accidents that can be caused by using a Power Supply beyond its service live, we recommend that you replace the Power Supply as early as possible within the recommended replacement period.

However, bear in mind that the recommended replacement period is for reference only and does not guarantee the life of the Power Supply.

Many electronic components are used in the Power Supply and the Power Supply depends on the correct operation of these components to achieve the original Power Supply functions and performance.

However, the influence of the ambient temperature on aluminum electrolytic capacitors is large, and the service life is reduced by half for each 10°C rise in temperature (Arrhenius law).

When the capacity reduction life of the electrolytic capacitor is reached, the Power Supply failures or accidents may occur.

We therefore recommend that you replace the Power Supply periodically to minimize product failures or accidents in advance.

*The recommended replacement period applies under the following conditions: rated input voltage, load rate of 50% max., ambient temperature of 40°C max., and the standard mounting method.

This Power Supply model is designed with a service life of 10 years minimum under the above conditions.



OMRON AUTOMATION AMERICAS HEADQUARTERS • Chicago, IL USA • 847.843.7900 • 800.556.6766 • automation.omron.com

OMRON CANADA, INC. • HEAD OFFICE

Toronto, ON, Canada • 416.286.6465 • 866.986.6766 • automation.omron.com

OMRON ELECTRONICS DE MEXICO • HEAD OFFICE

Ciudad de México • 52.55.5901.4300 • 01.800.386.6766 • mela@omron.com

OMRON ELECTRONICS DE MEXICO • SALES OFFICE

San Pedro Garza García, N.L. • 81.12.53.7392 • 01.800.386.6766 • mela@omron.

OMRON ELECTRONICS DE MEXICO • SALES OFFICE

Eugenio Garza Sada, León, Gto • 01.800.386.6766 • mela@omron.com

OMRON ELETRÔNICA DO BRASIL LTDA • HEAD OFFICE

São Paulo, SP, Brasil • 55 11 5171-8920 • automation.omron.com

OMRON ARGENTINA • SALES OFFICE

Buenos Aires, Argentina • +54.11.4521.8630 • +54.11.4523.8483 mela@omron.com

OTHER OMRON LATIN AMERICA SALES

+54.11.4521.8630 • +54.11.4523.8483 • mela@omron.com

Authorized Distributor:

Controllers & I/O

- Machine Automation Controllers (MAC) Motion Controllers
- Programmable Logic Controllers (PLC) Temperature Controllers Remote I/O

Robotics

• Industrial Robots • Mobile Robots

Operator Interfaces

• Human Machine Interface (HMI)

Motion & Drives

- $\bullet \ \mathsf{Machine} \ \mathsf{Automation} \ \mathsf{Controllers} \ \bullet \ \mathsf{Motion} \ \mathsf{Controllers} \ \bullet \ \mathsf{Servo} \ \mathsf{Systems}$
- Frequency Inverters

Vision, Measurement & Identification

 \bullet Vision Sensors & Systems \bullet Measurement Sensors \bullet Auto Identification Systems

Sensing

- Photoelectric Sensors Fiber-Optic Sensors Proximity Sensors
- Rotary Encoders Ultrasonic Sensors

Safety

- Safety Light Curtains Safety Laser Scanners Programmable Safety Systems
- Safety Mats and Edges Safety Door Switches Emergency Stop Devices
- $\bullet \, \mathsf{Safety} \, \mathsf{Switches} \, \& \, \mathsf{Operator} \, \mathsf{Controls} \, \bullet \, \mathsf{Safety} \, \mathsf{Monitoring/Force-guided} \, \mathsf{Relays}$

Control Components

- Power Supplies Timers Counters Programmable Relays
- Digital Panel Meters Monitoring Products

Switches & Relays

- Limit Switches Pushbutton Switches Electromechanical Relays
- Solid State Relays

Software

 $\bullet \ \mathsf{Programming} \ \& \ \mathsf{Configuration} \ \bullet \ \mathsf{Runtime}$

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for DIN Rail Power Supplies category:

Click to view products by Omron manufacturer:

Other Similar products are found below:

PS-S6024 DVP01PU-S DVP06AD-S DVP06XA-S DVPDNET-SL DVPDT01-S DVPPS01 PS-6012 PS9Z-5R1G PS-C24024

DVP08ST11N DVPACAB530 DVPCOPM-SL DVPEN01-SL DVPPF01-S ADNB008-48-1PM-C ADNB017-24-1PM-C ADNB040-24
1PM-C ADNB034-12-1PM-C SS14011524 S8TS-06024-E1 PS-UPS40 PSC-6024 PSD-A60W12 96PS-A120WDIN PSD-A60W48 PSD-A40W12 PSD-A40W24 SMP21-L20-DC24V-5A PSD-A40W48 S8T-DCBU-02 PS-S4024 NTPS-24-1.3 PST-96024 S82YVSC4P PS-S4005 PS-10024 PS-S10024 PS-C12024 PSP-480S24 PS-C48024 PSC-2024 PSC-4012 PSC-4048 PSC-9615 PSC-15124 PSC-15148 PSC-24148 PSC-48148 TRIO-PS-2G/1AC/12DC/5/C2LP