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# Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









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

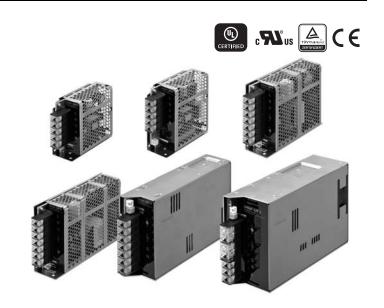
## **Superior Performance and** Reliability, Meets a Wide Range of Standards, Allowing Great Usability.

- 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. (IEC 61558-2-16) \* Refer to pages 4 to 10 for certified models.

- Conforms to SEMI F47-0706 (200 VAC input).
- Great 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 26.

## 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-	$G \square \square \square$					
	1	2	3	4	5	6

1. Power Ratings	2. Output voltage
015: 15 W	05: 5 V
030: 30 W	12: 12 V
050: 50 W	15: 15 V
100: 100 W	24: 24 V
150: 150 W	48: 48 V
300: 300 W	
600: 600 W	

#### 3. Configuration

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

#### 4. Option (1)

None: Screw terminal block

#### 5. Option (2) \*1

None: None Parallel operation

#### 6. Option (3) \*2 None: None

Remote control

<sup>\*1.</sup> Applicable only for 600 W and 24 V.

<sup>\*2.</sup> Applicable only for 100 W or more and 24 V.

# **Ordering Information**

## **List of Models**

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

#### 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 VV		15 V	2.4 A		S8FS-G03015C
		24 V	1.5 A		S8FS-G03024C
		5 V	8 A		S8FS-G05005C
50 W		12 V	4.3 A		S8FS-G05012C
30 VV		15 V	3.5 A	None	S8FS-G05015C
		24 V	2.2 A		S8FS-G05024C
		5 V	16 A		S8FS-G10005C
100 W		12 V	8.5 A		S8FS-G10012C
100 VV	100 to 240 VAC	15 V	7 A		S8FS-G10015C
		24 V	4.5 A		S8FS-G10024C
		5 V	21 A		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
		12 V	25 A		S8FS-G30012C
300 W		15 V	20 A		S8FS-G30015C
300 11		24 V	14 A		S8FS-G30024C
		48 V	7 A	Yes	S8FS-G30048C
		12 V	50 A	165	S8FS-G60012C
600 W		15 V	40 A		S8FS-G60015C
OUU VV		24 V	27 A		S8FS-G60024C
		48 V	13 A		S8FS-G60048C

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

<sup>2.</sup> Front-mounting is not possible.

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 24.

## With Cover/DIN Rail Mounting

ower ratings	Input voltage	Output voltage (VDC)	Output current	Built-in fan	Model
		5 V	3 A		S8FS-G01505CD
15 W		12 V	1.3 A		S8FS-G01512CD
15 W		15 V	1 A		S8FS-G01515CD
		24 V	0.65 A		S8FS-G01524CE
	-	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-G03024CE
		5 V	8 A		S8FS-G05005CE
50 W		12 V	4.3 A		S8FS-G05012CE
50 VV		15 V	3.5 A	None	S8FS-G05015CE
		24 V	2.2 A		S8FS-G05024CE
		5 V	16 A		S8FS-G10005CE
100 W		12 V	8.5 A		S8FS-G10012CE
100 W	100 to 240 VAC	15 V	7 A		S8FS-G10015CE
		24 V	4.5 A		S8FS-G10024CE
		5 V	21 A		S8FS-G15005CE
		12 V	13 A		S8FS-G15012C
150 W		15 V	10 A		S8FS-G15015CE
		24 V	6.5 A		S8FS-G15024CE
		48 V	3.3 A		S8FS-G15048CE
		12 V	25 A		S8FS-G30012CE
300 W		15 V	20 A		S8FS-G30015CE
300 VV		24 V	14 A		S8FS-G30024CE
		48 V	7 A	Yes	S8FS-G30048CE
		12 V	50 A	165	S8FS-G60012CE
600 W		15 V	40 A		S8FS-G60015CE
000 00		24 V	27 A		S8FS-G60024CE
		48 V	13 A		S8FS-G60048CD

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

# **Specifications**

		Power rating			15 W			
Item		Output voltage	5 V	12 V	15 V	24 V		
		100 VAC input	80% typ.	84% typ.	84% typ.	85% typ.		
Efficiency *		200 VAC input	80% typ.	84% typ.	84% typ.	86% typ.		
<b>,</b> .		230 VAC input	80% typ.	84% typ.	84% typ.	86% typ.		
	Voltage range *	200 1110 111941	Single phase, 85 to 264	1		50 % typ.		
	Frequency *		50/60 Hz (47 to 450 Hz)					
	riequelicy *	100 VAC input						
	Current *	100 VAC input	0.32 A typ.					
		200 VAC input	0.2 A typ.					
Input	Power factor	T						
	Leakage current *	100 VAC input	0.5 mA max.					
		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.					
	,	·		124	1.0	0.65.4		
	Rated Output Curre		3 A	1.3 A	1 A	0.65 A		
	Voltage adjustment ra	ange *	-10% to 15% (with V.A	DJ)				
	Ripple & Noise voltage *	<b>100</b> to <b>240</b> VAC input	40 mVp-p max.	40 mVp-p max.	40 mVp-p max.	60 mVp-p max.		
	Input variation influ	ence *	0.5% max.					
Output	Load variation influ	ence *	1.0% max.					
Output	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 <b>*</b>	•		* * * * * * * * * * * * * * * * * * * *		- ,,		
	Overload protection	200 VAC input	75 ms typ.	70 ms typ.	75 ms typ.	70 ms typ.		
	Overload protection		Yes, automatic reset					
	Overvoltage protect	ion *	Yes, 120% or higher of the input again)	rated output voltage, p	ower snut oπ (shut off th	ne input voltage and turn		
	Overheat protection		No					
Additional Sunctions P	·	Series operation		ear Cumpling autornal d	liadae are required \			
			Yes (For up to two Pow					
	Parallel operation			pperation is possible, e	xternal diodes are requir	ed.)		
	Remote sensing Remote control		No					
			No					
	Output indicator		Yes (LED: Green)					
			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					
mouldilli			1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA					
	Insulation resistanc	e	100 M $\Omega$ 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.) (with no condensation or icing					
	Storage temperature		-25 to 75°C (with no condensation or icing)					
Environment	Ambient operating h		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							
	<u> </u>		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	U)	Refer to <i>Dimensions</i> on page 18.					
Construction	Weight		250 g					
	Cooling fan		No					
	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 Class B					
	EMI *	Radiated Emissions	Conforms to EN 61204	-3 Class B, EN 55011	Class B			
	EMS		Conforms to EN 61204	-3 high severity levels				
Standards	Safety Standards		UL 508 (Listing, exclud UL 60950-1 (Recognition CSA C22.2 No.107.1 (e CSA C22.2 No.60950- EN 50178 (OVCIII [5:2] EN 60950-1 (OVCII [5:3] Conforms to EN/IEC 61	on, OVCII [≤ 3,000 m], excluding models with of the control of th	Pol2) connector option)	2)		
	Marine Standards		No					
	SEMI		Conforms to F47-0706	(200 VAC input)				
Defeate Det		and Functions on na		. 1:7				

<sup>\*</sup>Refer to Ratings, Characteristics, and Functions on page 11.

		Power rating			30 W			
Item		Output voltage						
		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 *			264 VAC, 120 to 370 VE				
	Frequency *		50/60 Hz (47 to 450 Hz)					
		100 VAC input	0.72 A typ.					
	Current *	200 VAC input	0.43 A typ.					
Input	Power factor							
Input		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						
	25°C)	·	28 A typ.					
	Rated Output Curre	nt	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 *	onco *	0.5% max.					
	Input variation influ-		1.0% max.					
Output		CIICE TO	1.0 /0 IIIdX.					
	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.					
	Hold time #	100 VAC input	11 ms typ.	10 ms typ.	11 ms typ.	10 ms typ.		
	Hold time <b>*</b>	200 VAC input	60 ms typ.	50 ms typ.	50 ms typ.	55 ms typ.		
	Overload protection	<u> </u>	Yes, automatic res	et				
	Overvoltage protect	ion &	Yes, 120% or highe	er of rated output voltage,	power shut off (shut off th	ne input voltage and tur		
	Overvoitage protect	1011 <b>ক</b>	the input again)					
A .dd. i.d. i 1	Overheat protection	<u> </u>	No					
unctions P	Series operation		Yes (For up to two	Power Supplies, external	diodes are required.)			
	Parallel operation		•	sup 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					
			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		100 M $\Omega$ 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.) (with no condensation or icing					
	Ambient operating t				to the temperature.) (with	no condensation or icir		
	Storage temperature		-25 to 75°C (with no condensation or icing)					
Environment	Ambient operating I	<u> </u>	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 *	2)	10 years min.					
	Dimensions (W×H×I	(ر	Refer to <i>Dimensions</i> on page 18.					
Construction	Weight		250 g					
	Cooling fan		No					
	Degree of protection		Conforms to EN C4	1000 2 2				
	Harmonic current er	1	Conforms to EN 61		1 Closs P			
	EMI *	Conducted Emissions		204-3 Class B, EN 5501				
	EMC	Radiated Emissions	· ·					
Standards	Safety Standards		Conforms to EN 61204-3 high severity levels  UL 508 (Listing, excluding models with connector option) UL 60950-1 (Recognition, OVCII [ $\leq$ 3,000 m], Pol2) CSA C22.2 No.107.1 (excluding models with connector option) CSA C22.2 No.60950-1 (excluding models with connector option) EN 50178 (OVCIII [ $\leq$ 2,000 m], OVCII [ $>$ 2,000 m and $\leq$ 3,000 m], Pol2) EN 60950-1 (OVCII [ $\leq$ 3,000 m], Pol2) Conforms to EN/IEC 61558-2-16.					
	-		No					
	Marine Standards		l No					
			EN 60950-1 (OVCI Conforms to EN/IE	I [≤ 3,000 m], Pol2)				

<sup>\*</sup> 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.		
Lineichey 4		230 VAC input	82% typ.	86% typ.	88% typ.	89% typ.		
	Voltage range *	200 VAO IIIput	,,	264 VAC, 120 to 370 VD		00 % typ.		
	Frequency *		50/60 Hz (47 to 450 Hz)					
	Trequency 4	100 VAC input	1.1 A typ.					
	Current *	200 VAC input	0.62 A typ.					
	Power factor	200 VAO IIIput						
Input	1 Ower factor	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	nt	8 A	4.3 A	3.5 A	2.2A		
	Voltage adjustment ra	ange *	-10% to 15% (with V	.ADJ)				
	Ripple & Noise voltage *	<b>100</b> to <b>240</b> VAC input	40 mVp-p max.	40 mVp-p max.	40 mVp-p max.	60 mVp-p max.		
	Input variation influ	ence *	0.5% max.					
Output	Load variation influ	ence *	1.0% max.					
- utput	Temperature variation influence	<b>100</b> to <b>240</b> VAC input	0.05%/°C max.					
	Startup time *	100 VAC input	1,000 ms max.					
		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 #	200 VAC input	75 ms typ.	60 ms typ.	60 ms typ.	55 ms typ.		
	Overload protection	1	Yes, automatic reset					
	Overvoltage protect	tion *		of rated output voltage,	power shut off (shut off th	ne input voltage and turr		
			the input again)					
Additional S functions P	Overheat protection	<u> </u>	No		diadaa aaa aaaaaa A			
	Series operation		· '	ower Supplies, external	· · · · · · · · · · · · · · · · · · ·	\		
	Parallel operation		No (However, backu)	o operation is possible, o	external diodes are requir	ea.)		
	Remote sensing Remote control		No					
	Output indicator		Yes (LED: Green)					
	Output indicator		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					
Insulation	Withstand voltage		1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA					
modiation			500 VAC for 1 min. (between all output terminals and RC terminals) current cutoff 20 mA					
	Insulation resistanc	e	100 MΩ min. (between all output terminals and all input terminals/PE terminals) at 500 VDC					
	Ambient operating t		100 Mt2 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.) (with no condensation or icing					
	Storage temperature	•	,	condensation or icing)		33351104.1311 01 10111		
Environment	Ambient operating h		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 *		10 years min.					
	Dimensions (W×H×I	D)	Refer to <i>Dimensions</i> on page 19.					
	Weight		300 g					
Construction	Cooling fan		No					
	Degree of protection	n						
	Harmonic current er		Conforms to EN 610	00-3-2				
		Conducted Emissions		04-3 Class B, EN 55011	Class B			
	EMI *	Radiated Emissions		04-3 Class B, EN 55011				
	EMS	t .		04-3 high severity levels				
Standards	Safety Standards		UL 508 (Listing, excluding models with connector option) UL 60950-1 (Recognition, OVCII [≤ 3,000 m], Pol2) CSA C22.2 No.107.1 (excluding models with connector option) CSA C22.2 No.60950-1 (excluding models with connector option) EN 50178 (OVCII [≤ 2,000 m], OVCII [> 2,000 m and ≤ 3,000 m], Pol2) EN 60950-1 (OVCII [≤ 3,000 m], Pol2) Conforms to EN/IEC 61558-2-16.					
	Marine Standards		No					
	SEMI		Conforms to F47-070	06 (200 VAC input)				
Pofor to Patings Characteristics and Functions on r			Conforms to F47-0706 (200 VAC input)					

<sup>\*</sup> Refer to Ratings, Characteristics, and Functions on page 11.

		Power rating			100 W				
Item		Output voltage	5 V	24 V					
		100 VAC input	79% typ.	12 V 84% typ.	85% typ.	87% typ.			
Efficiency *		200 VAC input	81% typ.	86% typ.	87% typ.	89% typ.			
		230 VAC input	81% typ.	86% typ.	87% typ.	89% typ.			
	Voltage range ★		7.	264 VAC, 120 to 370 VD		<b>3</b> F			
	Frequency *		50/60 Hz (47 to 450 Hz)						
		100 VAC input	2.1 A typ.	,					
	Current *	200 VAC input	1.2 A typ.						
Innut	Power factor	•							
Input		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)	·							
	Rated Output Currer	nt	16 A	8.5 A	7 A	4.5 A			
	Voltage adjustment ra	ange *	-10% to 15% (with	V.ADJ)					
	Ripple & Noise	100 to 240 VAC input	70 mVp-p max.	90 mVp-p max.	100 mVp-p max.	80 mVp-p max.			
	voltage *	•							
	Input variation influe		0.5% max.						
Output	Load variation influe	ence 本	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	12 ms typ.	11 ms typ.	11 ms typ.	10 ms typ.			
	Hold time <b>*</b>	200 VAC input	70 ms typ.	55 ms typ.	55 ms typ.	55 ms typ.			
	Overload protection	•	Yes, automatic res		oo mo typ.	oo mo typ.			
					power shut off (shut off the	e innut voltage and turn			
	Overvoltage protect	ion *	the input again)	or or rated output voltage,	power snat on (snat on the	e input voltage and turn			
	Overheat protection		No						
Additional	Series operation		Yes (For up to two	Power Supplies, external	diodes are required.)				
unctions P	Parallel operation		` .		external diodes are require	ed.)			
	Remote sensing		No		<u>'</u>	,			
	Remote control			els with remote control opt	ion)				
	Output indicator		Yes (LED: Green)	<u> </u>	,				
			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						
	Withstand voltage		1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA						
Insulation			Only Remote control						
			500 VAC for 1 min. (between all output terminals and RC terminals) current cutoff 20 mA						
	Insulation resistance	е	100 M $\Omega$ min. (between all output terminals and all input terminals/PE terminals) at 500 VDC						
	Ambient operating t	emperature			the temperature. Refer to	Engineering Data) (with			
		·	condensation or ici	0,					
Environment	Storage temperature		-25 to 75°C (with no condensation or icing)						
Liviloilileill	Ambient operating h		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 Dimensions on page 20.						
Construction	Weight		400 g						
- Silstruction	Cooling fan		No						
	Degree of protection	1							
	Harmonic current er	missions	Conforms to EN 61	000-3-2					
	EMI *	Conducted Emissions	Conforms to EN 61204-3 Class B, EN 55011 Class B						
	Livii 40	Radiated Emissions	Conforms to EN 61204-3 Class B, EN 55011 Class B						
	EMS		Conforms to EN 61	204-3 high severity levels					
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 (Recognition, OVCII [ $\le$ 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 (excluding models with connector option or remote control option) EN 50178 (OVCIII [ $\ge$ 2,000 m], OVCII [ $\ge$ 2,000 m and $\le$ 3,000 m], Pol2) EN 60950-1 (OVCII [ $\le$ 3,000 m], Pol2)						
	Marine Standards		Conforms to EN/IEC 61558-2-16.						
				706 (200 VAC input)					
	SEMI		Conforms to F47-0706 (200 VAC input)						

<sup>\*</sup> 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, 120 to 370 VDC						
	Frequency *		50 /60 Hz (47 to 4	· · · · · · · · · · · · · · · · · · ·					
		100 VAC input	3 A typ.						
	Current *	200 VAC input	1.8 A typ.						
	Power factor								
Input	1 Ollor ractor	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	nt	21 A	13 A	10 A	6.5 A	3.3 A		
	Voltage adjustment ra	ange *	-10% to 15% (with	n V.ADJ)					
	Ripple & Noise 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 influence *		0.5% max.						
	Load variation influ		1.0% max.						
Output	Temperature								
	variation influence	100 to 240 VAC input	0.05%/°C max.						
	Startup time *	100 VAC input	1,000 ms max.						
		200 VAC input	1,000 ms max.						
	Hold time *	100 VAC input	14 ms typ.	10 ms typ.	10 ms typ.	10 ms typ.	11 ms typ.		
	riola tille 4	200 VAC input	80 ms typ.	55 ms typ.	55 ms typ.	55 ms typ.	55 ms typ.		
	Overload protection		Yes, automatic res	set					
	Overvoltage protect	ion *		ner of rated output vo	oltage, power shut o	off (shut off the input v	oltage and turn or		
			the input again)						
	Overheat protection		No						
Additional functions	Series operation		Yes (For up to two	Power Supplies, ex	ternal diodes are re	equired.)			
P	Parallel operation		No (However, bac	kup operation is pos	sible, external diod	es are required.)			
	Remote sensing		No						
	Remote control		Yes (Only for mod	lels with remote cont	trol 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						
modiation			Only Remote control						
			500 VAC for 1 min.(between all output terminals and RC terminals) current cutoff 20 mA						
	Insulation resistance	е	100 M $\Omega$ min.(between all output terminals and all input terminals/PE terminals) at 500 VDC						
	Ambient operating t	emperature			rding to the tempera	ature. Refer to Engine	eering Data) (with r		
	' '	·	condensation or id	<u> </u>					
Environment	Storage temperature		-25 to 75°C (with no condensation or icing)						
	Ambient operating h	·	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 Dimensions on page 22.						
Construction	Weight		500 g						
20.1011 4011011	Cooling fan		No						
	Degree of protection	1							
	Harmonic current er	missions	Conforms to EN 6	1000-3-2 (Applicable	e at 80% or less of t	he rated load.)			
	EMI*	Conducted Emissions	Conforms to EN 6	1204-3 Class B, EN	55011 Class B				
	LIVII T	Radiated Emissions	Conforms to EN 6	1204-3 Class B, EN	55011 Class B				
	EMS		Conforms to EN 6	1204-3 high severity	levels				
			UL 508 (Recognition, models with remote control option)						
Standards			UL 60950-1 (Reco	gnition, OVCII [≤ 3,0	000 m], Pol2)				
	Safety Standards		CSA C22.2 No.10	7.1 (excluding mode	ls with connector of	otion or remote contro			
	Calciy Cialidards					r option or remote co	ntrol option)		
				l [≤ 2,000 m], OVCII ll [≤ 3,000 m], Pol2)		,000 mj, P0I2)			
			Conforms to EN/II						
	Marine Standards		No						
	SEMI			0706 (200 VAC input	t)				
	_	etice and Functions of		,	,				

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

		Power rating	300 W					
Item Output voltage			12 V 15 V 24 V 48 V					
item		100 VAC input	81% typ.	81% typ.	82% typ.	82% typ.		
Efficiency *		200 VAC input	85% typ.	85% typ.	87% typ.	87% typ.		
Emolency 4		230 VAC input	85% typ.	86% typ.	87% typ.	87% typ.		
	Voltage range <b>∗</b>		Single phase, 85 to 26			0. 70 typ.		
	Frequency *		50/60 Hz (47 to 63 Hz)					
		100 VAC input	4.2 A typ.					
	Current *	200 VAC input	2.1 A typ.					
Input	Power factor	•	0.9 min.					
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) Rated Output Currer	· ·	25 A	20 A	14 A	7 A		
	-		-10% to 15% (with V.A		14 A	/ A		
	Voltage adjustment ra	ange *	-10% to 15% (With V.A	(D3)				
	voltage *	100 to 240 VAC input	140 mVp-p max.	270 mVp-p max.	150 mVp-p max.	330 mVp-p max.		
	Input variation influ	ence *	0.5% max.	1				
Ot	Load variation influe		1.0% max.					
Output	Temperature variation influence	<b>100</b> to <b>240</b> VAC input	0.05%/°C max.					
	Chambur time - t	100 VAC input	1,000 ms max.					
	Startup time *	200 VAC input	1,000 ms max.					
	Hold time to	100 VAC input	30 ms typ.	30 ms typ.	30 ms typ.	30 ms typ.		
	Hold time * 200 VAC input		30 ms typ.	25 ms typ.	30 ms typ.	30 ms typ.		
	Overload protection		Yes, automatic reset					
	Overvoltage protect	ion *		rated output voltage, ¡	power shut off (shut off the	e input voltage and turi		
	Overheat protection		the input again)	out off the input voltage	and turn on the input aga	nin)		
Additional	Series operation		Yes (For up to two Pov			1111)		
functions			•		external diodes are require	vd )		
R	Parallel operation Remote sensing		No (However, backup o	operation is possible, e	external diodes are require	:u.)		
	Remote control		Yes (Only for models w	ith romate control anti	on)			
			Yes (LED: Green)	vitir remote control opti	OII)			
	Output indicator	Sutput mulcator		ween all input terminals	s and output terminals) ou	rrent cutoff 20 m∆		
			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					
	Withstand voltage		1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA					
Insulation	3-		Only Remote control					
			500 VAC for 1 min. (between all output terminals and RC terminals) current cutoff 20 mA					
	Insulation resistance	е	100 M $\Omega$ 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.) (with r	o condensation or icin		
	Storage temperature	)	-25 to 75°C (with no co	ondensation 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/s², 3 times each in ±X, ±Y, ±Z directions					
Reliability	MTBF		135,000 hrs min.					
iteliability	Life expectancy *		10 years min.					
	Dimensions (W×H×I	0)	Refer to Dimensions on page 24					
Construction	Weight		700 g					
- Jiioa dollon	Cooling fan		Yes					
	Degree of protection	1						
	Harmonic current er	nissions	Conforms to EN 61000	-3-2				
	EMI *	Conducted Emissions	Conforms to EN 61204	-3 Class B, EN 55011	Class B			
		Radiated Emissions	Conforms to EN 61204-3 Class B, EN 55011 Class B					
	EMS		Conforms to EN 61204	-3 high severity levels				
			UL 508 (Listing, exclud					
Standards			UL 508 (Recognition, number of the UL 60950-1 (Recognition)					
- andarus	Safety Standards		CSA C22.2 No.107.1 (	excluding models with	remote control option)			
	Carety Glandards				th remote control option)			
			EN 60950-1 (OVCIII [≤ 2		0 m and ≤ 3,000 m], Pol2	1		
			Conforms to EN/IEC 6					
	Marine Standards		No					

<sup>\*</sup> Refer to Ratings, Characteristics, and Functions on page 11.

		Power rating			600 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.			
		230 VAC input	88% typ.	88% typ.	90% typ.	92% typ.			
	Voltage range *	200 TAO IIIput	· · · · · · · · · · · · · · · · · · ·	264 VAC, 120 to 350 VD		02 /0 typ.			
	Frequency *		50 /60 Hz(47 to 63 Hz)						
	r requeriey 4	100 VAC input	7.7 A typ.	12)					
	Current *	200 VAC input	*,						
	Power factor	200 VAC IIIput	3.8 A typ. 0.9 min.						
Input	rower factor	100 VAC input	0.5 mA max.						
	Leakage current *	200 VAC input							
	Inrush current *		1 mA max.						
	(for a cold start at	100 VAC input	14 A typ.						
	25°C)	200 VAC input	28 A typ.						
	Rated Output Curre	nt	50 A	40 A	27 A	13 A			
	Voltage adjustment ra	ange *	-10% to 15% (with \	/.ADJ)	<del>-</del>				
	Ripple & Noise	1	170 m\/n n may	170 m\/n n may	280 m\/n n may	340 m\/n = ===:			
	voltage *	<b>100</b> to <b>240</b> VAC input	170 mVp-p max.	170 mVp-p max.	280 mVp-p max.	340 mVp-p max.			
	Input variation influ	ence *	0.5% max.			·			
Outnut	Load variation influ	ence *	1.0% max.						
Output	Temperature variation influence	100 to 240 VAC input	0.05%/°C max.						
	Stortur time 4	100 VAC input	1,000 ms max.						
	Startup time *	200 VAC input	1,000 ms max.						
		100 VAC input	30 ms typ.	25 ms typ.	30 ms typ.	30 ms typ.			
	Hold time * 200 VAC input		30 ms typ.	25 ms typ.	30 ms typ.	30 ms typ.			
	Overload protection		Yes, automatic reset						
	Overvoltage protect		, , , , , , , , , , , , , , , , , , ,	Yes, 120% or higher of rated output voltage, power shut off (shut off the input voltage and turn of					
	Overvoitage protect	ion 本	the input again)						
	Overheat protection		Yes, power shut off	shut off the input voltage	and turn on the input aga	ain)			
Additional functions	Series operation		Yes (For up to two F	ower Supplies, external	diodes are required.)				
P	Parallel operation		Yes (up to five Powe	r Supplies, S8FS-G6002	4 (models with parallel op	eration option) only).			
	Remote sensing		No						
	Remote control		Yes (Only Remote c	ontrol)					
	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 resistanc	е	,	· · · · · · · · · · · · · · · · · · ·	nd all input terminals/PE to	•			
	Ambient operating t	emperature	-20 to 70°C (Derating is required according to the temperature.) (with no condensation or icing)						
	Storage temperature	е	-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/s², 3 times each in ±X, ±Y, ±Z directions						
Doliok!!!	MTBF		135,000 hrs min.						
Reliability	Life expectancy *		10 years min.						
	Dimensions (W×H×I	0)	Refer to Dimensions on page 23.						
O	Weight		1,050 g						
Construction	Cooling fan		Yes						
	Degree of protection	n							
	Harmonic current er	missions	Conforms to EN 610	00-3-2					
	FIN 4	Conducted Emissions	Conforms to EN 612	04-3 Class B, EN 55011	Class B				
	EMI *	Radiated Emissions							
	EMS			04-3 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 (Recognition, OVCII [≤ 3,000 m], Pol2) CSA C22.2 No.107.1 (excluding models with remote control option) CSA C22.2 No.60950-1 (excluding models with remote control option) EN 50178 (OVCIII [≤ 2,000 m], OVCII [> 2,000 m and ≤ 3,000 m], Pol2) EN 60950-1 (OVCII [≤ 3,000 m], Pol2)						
			Conforms to EN/IEC 61558-2-16.						
	Marine Standards		No	00 (000 ) (4.0 )					
SEMI  Pefer to Patings Characteristics and Functions on r			Conforms to F47-0706 (200 VAC input)						

<sup>\*</sup> Refer to Ratings, Characteristics, and Functions on page 11.

## Ratings, Characteristics, and Functions

Efficiency	Efficiency		The value is when both rated output voltage and rated output current are satisfied.	
	Voltag	e range	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	
Input	Currer	<u> </u>	result in ignition or burning.  The value is when both rated output voltage and rated output current are satisfied.	
	-	ge current	The values are determined according to the Act on Power Supply Safety of Electrical Appliances and Materials.	
		current	For a cold start at 25°C. Refer to the following figure.	
Output	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.	
	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 ti	ime	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 17 for the time when input voltage shuts off an input turns on again.	
Reliability	Life expectancy		Refer to Recommended Replacement Periods and Periodic Replacement for Preventive Maintenance on page 32 for details.	
Standards	ЕМІ	Conducted Emissions	The 150-W and higher models conform to Class B when an aluminum plate is set under the	
Standards	EIVII	Radiated Emissions	Power Supply.	

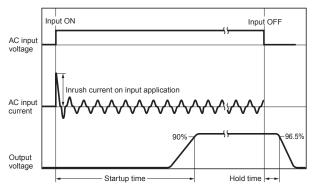
#### **Standard Compliance**

- 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.

Power supplies with a DC input are beyond the range of applicability of the EC Directives and other safety standards (e.g., UL and EN).

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

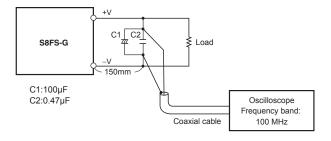


Note: The total inrush current of all of the Power Supplies will flow for parallel operation or backup operation.

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**

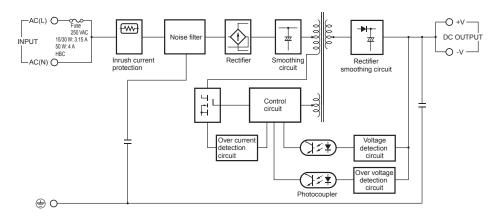
The specified standard for the ripple voltage noise was measured with a measurement circuit that is based on JEITA standard RC-9131A.



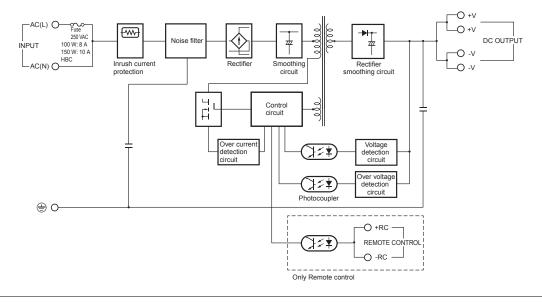
## **Connections**

#### **Block Diagrams**

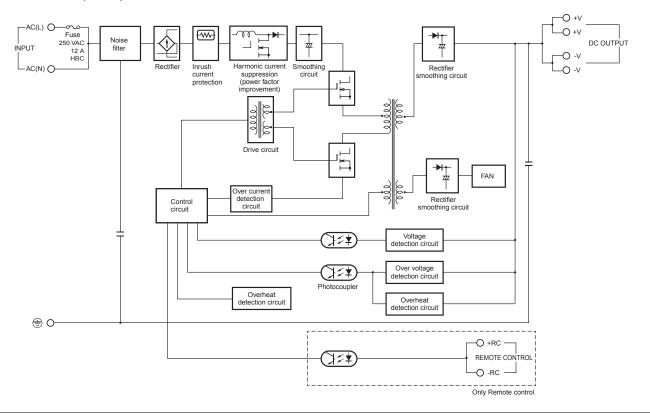
S8FS-G015□□□ (15 W) S8FS-G030□□□ (30 W) S8FS-G050□□□ (50 W)



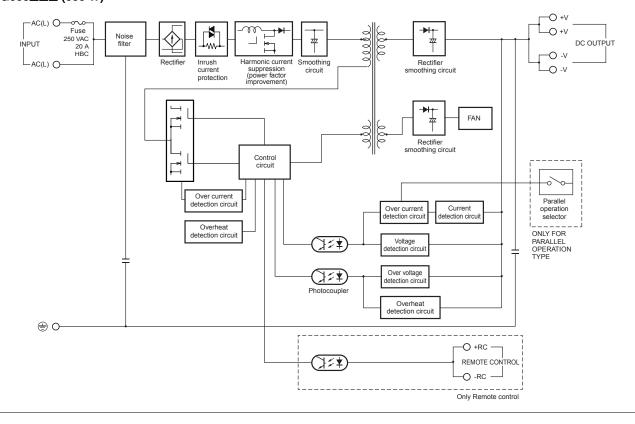
#### S8FS-G100□□□ (100 W) S8FS-G150□□□ (150 W)



#### S8FS-G300□□□ (300 W)



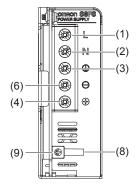
#### S8FS-G600□□□ (600 W)



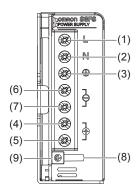
## **Construction and Nomenclature**

#### **Nomenclature**

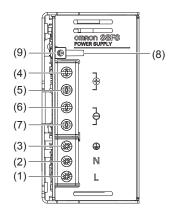
\$8FS-G015□□□ \$8FS-G030□□□ \$8FS-G050□□□



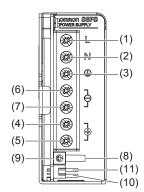
\$8FS-G100□□□ \$8FS-G150□□□



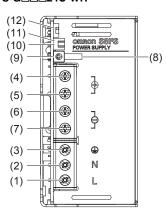
S8FS-G300□□□
S8FS-G600□□□



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 terminals	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			
(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	while for remote control.	
(12)		Parallel operation switch	To operate in parallel, set the switch to the "PARALLEL" side.	

<sup>\$1.</sup> 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.

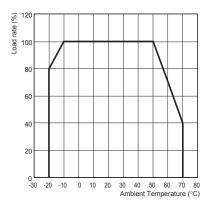
<sup>\*2.</sup> This is the protective earth terminal specified in the safety standards. Always ground this terminal.

# **Engineering Data**

## **Derating Curves**

#### **Output Derating**

15 W, 30 W, 50 W, 300 W, and 600 W



Note: At less than 100 VAC, derate the load at 1.3%/V.

# 80 75 60

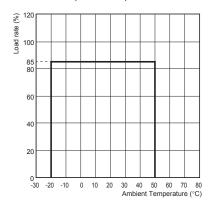
100 W and 150 W

40 25 20 0 30 -20 -10 0 10 20 30 40 50 60 70 80 Ambient Temperature (°C)

Note: At less than 100 VAC, derate the load at 1.3%/V.

#### **Parallel Operation**

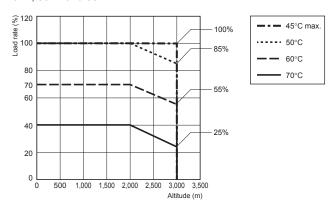
For Models with Parallel Operation Option



Note: At less than 100 VAC, derate the load at 1.3%/V.

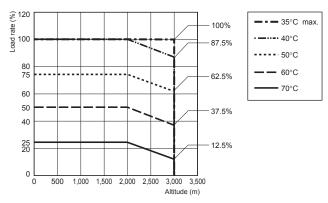
This Power Supply can be used at an altitude of 3,000 m. Between 2,000 and 3,000 m, derate the load according to the following derating curve.

#### 15 W, 30 W and 50 W



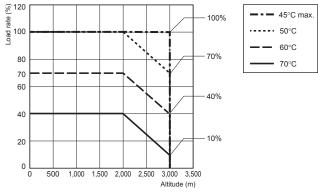
Note: At less than 100 VAC, derate the load at 1.3%/V.

#### 100 W and 150 W



Note: At less than 100 VAC, derate the load at 1.3%/V.

#### 300 W and 600 W

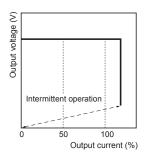


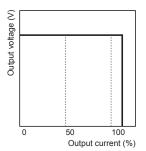
Note: At less than 100 VAC, derate the load at 1.3%/V.

## **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)

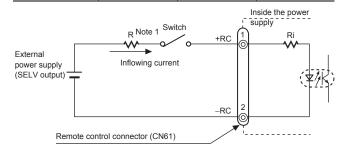
If the internal temperature of the Power Supply rises excessively as a result of fan failure or any other reason, the overheat protection circuit will be triggered to shut OFF the output voltage.

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	anufacturer 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 $\Omega$  as the current limiting resistor R.
  - 2. Reverse connection of the connector may cause damage on the internal parts.
  - 3. 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

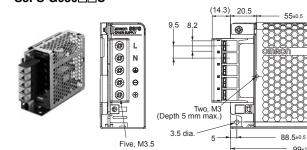
	Value	
Reliability (MTBF)	Single phase model 15W: 970,000 30W: 970,000 50W: 880,000 100W: 730,000 150W: 620,000 300W: 200,000 600W: 190,000	
Definition	MTBF stands for Mean Time Between Failures, which is calculated according to the probability of accidental device failures, and indicates reliability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

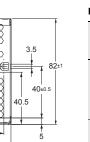
**Dimensions** (Unit: mm)

## **Power Supplies**

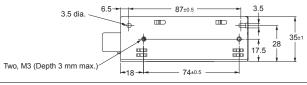
15 W and 30 W

S8FS-G015□□C S8FS-G030□□C

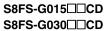


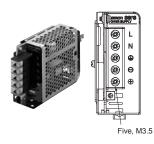


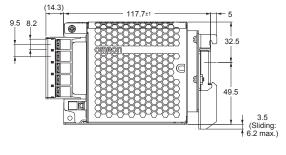
Panel mounting notes dimensions				
	Using the mounting holes in the Power Supply	Using the screw holes in the Power Supply		
Side Mounting	Two, M3 40±0.5	Two, 3.5 dia.		
Bottom Mounting	Two, M3	Two, 3.5 dia.		

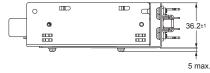


99±1



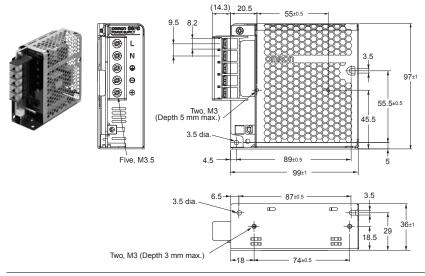






#### 50W

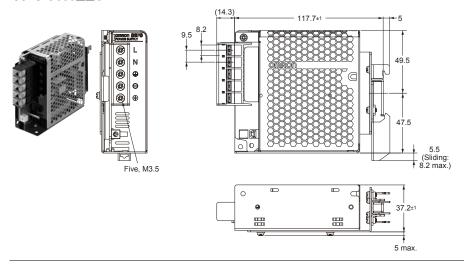
#### S8FS-G050□□C



#### Panel mounting holes dimensions

	Using the mounting holes in the Power Supply	Using the screw holes in the Power Supply
Side Mounting	55.5±0.5 Two, M3	Two, 3.5 dia. 55±0.5 →
Bottom Mounting	Two, M3	Two, 3.5 dia.

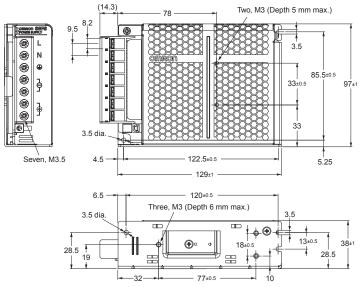
#### S8FS-G050□□CD



#### 100W

#### S8FS-G100□□C



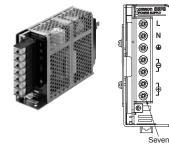


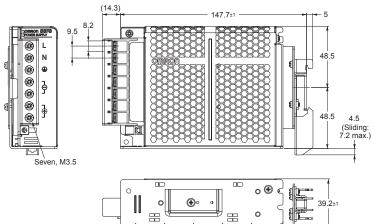
#### Panel mounting holes dimensions

5 max.

	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-G100□□CD

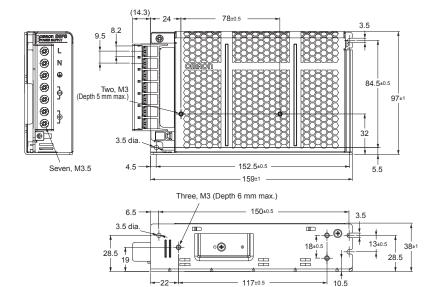




#### 150W

#### S8FS-G150□□C



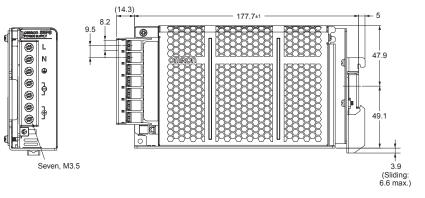


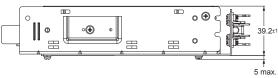
#### Panel mounting holes dimensions

	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.  9.5±0.5  117±0.5  18±0.5

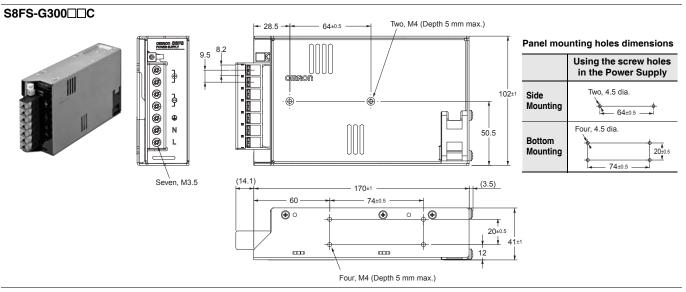
## S8FS-G150□□CD

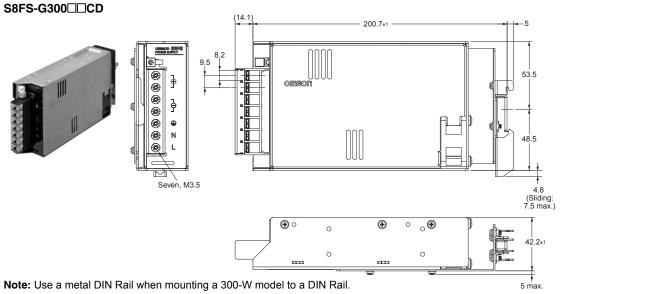






#### 300W



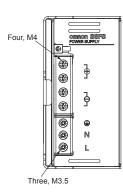


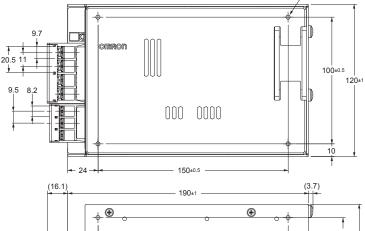
Four, M4 (Depth 5 mm max.)

#### 600W

#### S8FS-G600□□C







190±1

190±1

190±1

150±0.5

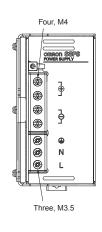
Four, M4 (Depth 5 mm max.)

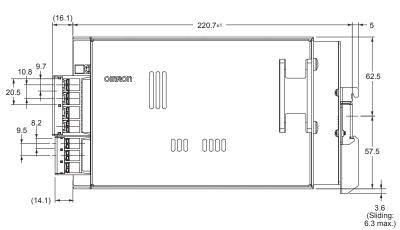
#### Panel mounting holes dimensions

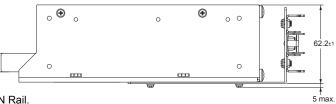
ranei inounting noies unitensions			
	Using the screw holes in the Power Supply		
Side Mounting	Four, 4.5 dia.		
Bottom Mounting	Four, 4.5 dia. 38±0.5		

#### S8FS-G600□□CD









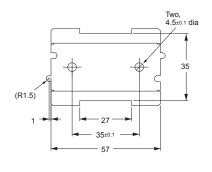
Note: Use a metal DIN Rail when mounting a 600-W model to a DIN Rail.

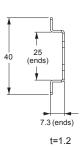
## **Mounting Brackets (Order Separately)**

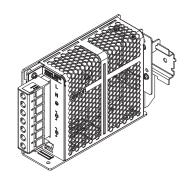
Use the Front-mounting Brackets together with DIN Rail-mounting Power Supplies (S8FS-G CD).

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

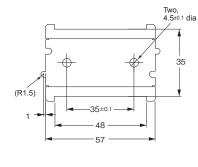
#### S82Y-FSG-30F

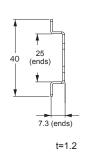


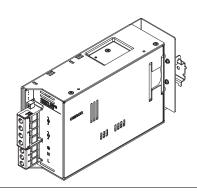




#### S82Y-FSG-60F







## **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.

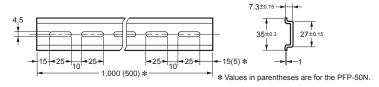
## **DIN Rail (Order Separately)**

(Unit: mm)

## **Mounting Rail (Material: Aluminum)**

PFP-100N PFP-50N

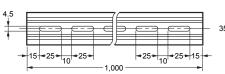


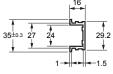


## Mounting Rail (Material: Aluminum)

PFP-100N2

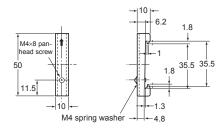






# End Plate PFP-M





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.