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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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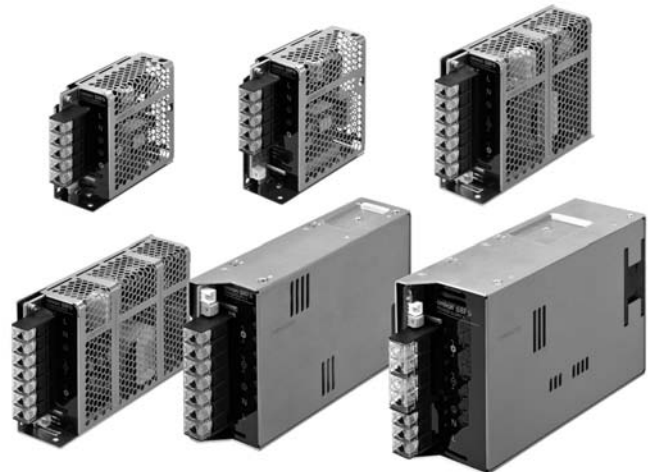


Switch Mode Power Supply

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						
	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

1 2 3 4 5 6

1. Power Ratings

015: 15 W
030: 30 W
050: 50 W
100: 100 W
150: 150 W
300: 300 W
600: 600 W

2. Output voltage

05: 5 V
12: 12 V
15: 15 V
24: 24 V
48: 48 V

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
W: Parallel operation

6. Option (3) *2

None: None
R: Remote control

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

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

S8FS-G

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
15 W	100 to 240 VAC	5 V	3 A	None	S8FS-G01505C
		12 V	1.3 A		S8FS-G01512C
		15 V	1 A		S8FS-G01515C
		24 V	0.65 A		S8FS-G01524C
30 W		5 V	6 A		S8FS-G03005C
		12 V	3 A		S8FS-G03012C
		15 V	2.4 A		S8FS-G03015C
		24 V	1.5 A		S8FS-G03024C
50 W		5 V	8 A		S8FS-G05005C
		12 V	4.3 A		S8FS-G05012C
		15 V	3.5 A		S8FS-G05015C
		24 V	2.2 A		S8FS-G05024C
100 W		5 V	16 A		S8FS-G10005C
		12 V	8.5 A		S8FS-G10012C
		15 V	7 A		S8FS-G10015C
		24 V	4.5 A		S8FS-G10024C
150 W		5 V	21 A		S8FS-G15005C
		12 V	13 A		S8FS-G15012C
		15 V	10 A		S8FS-G15015C
		24 V	6.5 A		S8FS-G15024C
300 W	48 V	3.3 A	S8FS-G15048C		
	12 V	25 A	S8FS-G30012C		
	15 V	20 A	S8FS-G30015C		
	24 V	14 A	S8FS-G30024C		
600 W	48 V	7 A	S8FS-G30048C		
	12 V	50 A	S8FS-G60012C		
	15 V	40 A	S8FS-G60015C		
	24 V	27 A	S8FS-G60024C		
	48 V	13 A	S8FS-G60048C		

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

2. 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

Power ratings	Input voltage	Output voltage (VDC)	Output current	Built-in fan	Model
15 W	100 to 240 VAC	5 V	3 A	None	S8FS-G01505CD
		12 V	1.3 A		S8FS-G01512CD
		15 V	1 A		S8FS-G01515CD
		24 V	0.65 A		S8FS-G01524CD
30 W		5 V	6 A		S8FS-G03005CD
		12 V	3 A		S8FS-G03012CD
		15 V	2.4 A		S8FS-G03015CD
		24 V	1.5 A		S8FS-G03024CD
50 W		5 V	8 A		S8FS-G05005CD
		12 V	4.3 A		S8FS-G05012CD
		15 V	3.5 A		S8FS-G05015CD
		24 V	2.2 A		S8FS-G05024CD
100 W		5 V	16 A		S8FS-G10005CD
		12 V	8.5 A		S8FS-G10012CD
		15 V	7 A		S8FS-G10015CD
		24 V	4.5 A		S8FS-G10024CD
150 W		5 V	21 A		S8FS-G15005CD
		12 V	13 A		S8FS-G15012CD
		15 V	10 A		S8FS-G15015CD
		24 V	6.5 A		S8FS-G15024CD
	48 V	3.3 A	S8FS-G15048CD		
	300 W	12 V	25 A	S8FS-G30012CD	
15 V		20 A	S8FS-G30015CD		
24 V		14 A	S8FS-G30024CD		
48 V		7 A	S8FS-G30048CD		
600 W	12 V	50 A	S8FS-G60012CD		
	15 V	40 A	S8FS-G60015CD		
	24 V	27 A	S8FS-G60024CD		
	48 V	13 A	S8FS-G60048CD		

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

Specifications

Item	Power rating		15 W			
	Output voltage		5 V	12 V	15 V	24 V
Efficiency *	100 VAC input		80% typ.	84% typ.	84% typ.	85% typ.
	200 VAC input		80% typ.	84% typ.	84% typ.	86% typ.
	230 VAC input		80% typ.	84% typ.	84% typ.	86% typ.
Input	Voltage range *		Single phase, 85 to 264 VAC, 120 to 370 VDC			
	Frequency *		50/60 Hz (47 to 450 Hz)			
	Current *	100 VAC input	0.32 A typ.			
		200 VAC input	0.2 A typ.			
	Power factor		---			
	Leakage current *	100 VAC input	0.5 mA max.			
		200 VAC input	1 mA max.			
Inrush current * (for a cold start at 25°C)	100 VAC input	14 A typ.				
	200 VAC input	28 A typ.				
Output	Rated Output Current		3 A	1.3 A	1 A	0.65 A
	Voltage adjustment range *		-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 influence *		0.5% max.			
	Load variation influence *		1.0% max.			
	Temperature variation influence	100 to 240 VAC input	0.05%/°C max.			
		Startup time *		1,000 ms max.		
	Hold time *	100 VAC input	15 ms typ.	14 ms typ.	15 ms typ.	15 ms typ.
		200 VAC input	75 ms typ.	70 ms typ.	75 ms typ.	70 ms typ.
	Additional functions	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 again)				
Overheat protection		No				
Series operation		Yes (For up to two Power Supplies, external diodes are required.)				
Parallel operation		No (However, backup operation is possible, external diodes are required.)				
Remote sensing		No				
Remote control		No				
Output indicator		Yes (LED: Green)				
Insulation	Withstand voltage		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 1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA			
	Insulation resistance		100 MΩ min. (between all output terminals and all input terminals/PE terminals) at 500 VDC			
Environment	Ambient operating temperature		-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)			
	Ambient operating humidity		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			
Reliability	Shock resistance		150 m/s ² , 3 times each in ±X, ±Y, ±Z directions			
	MTBF		135,000 hrs min.			
Life expectancy *	MTBF		135,000 hrs min.			
	Life expectancy *		10 years min.			
Construction	Dimensions (W×H×D)		Refer to <i>Dimensions</i> on page 18.			
	Weight		250 g			
	Cooling fan		No			
	Degree of protection		---			
Standards	Harmonic current emissions		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			
	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 (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			
	SEMI		Conforms to F47-0706 (200 VAC input)			

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

Item	Power rating		30 W			
	Output voltage		5 V	12 V	15 V	24 V
Efficiency *	100 VAC input		81% typ.	84% typ.	86% typ.	86% typ.
	200 VAC input		81% typ.	86% typ.	88% typ.	88% typ.
	230 VAC input		81% typ.	86% typ.	88% typ.	89% typ.
Input	Voltage range *		Single phase, 85 to 264 VAC, 120 to 370 VDC			
	Frequency *		50/60 Hz (47 to 450 Hz)			
	Current *	100 VAC input	0.72 A typ.			
		200 VAC input	0.43 A typ.			
	Power factor		---			
	Leakage current *	100 VAC input	0.5 mA max.			
		200 VAC input	1 mA max.			
Inrush current * (for a cold start at 25°C)	100 VAC input	14 A typ.				
	200 VAC input	28 A typ.				
Output	Rated Output Current		6 A	3 A	2.4 A	1.5 A
	Voltage adjustment range *		-10% to 15% (with V.ADJ)			
	Ripple & Noise voltage *	100 to 240 VAC input	50 mVp-p max.	60 mVp-p max.	50 mVp-p max.	60 mVp-p max.
	Input variation influence *		0.5% max.			
	Load variation influence *		1.0% max.			
	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	11 ms typ.	10 ms typ.	11 ms typ.	10 ms typ.
		200 VAC input	60 ms typ.	50 ms typ.	50 ms typ.	55 ms typ.
Additional functions	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 again)			
	Overheat protection		No			
	Series operation		Yes (For up to two Power Supplies, external diodes are required.)			
	Parallel operation		No (However, backup operation is possible, external diodes are required.)			
	Remote sensing		No			
	Remote control		No			
Output indicator		Yes (LED: Green)				
Insulation	Withstand voltage		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 1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA			
	Insulation resistance		100 MΩ min. (between all output terminals and all input terminals/PE terminals) at 500 VDC			
Environment	Ambient operating temperature		-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)			
	Ambient operating humidity		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			
Reliability	Shock resistance		150 m/s ² , 3 times each in ±X, ±Y, ±Z directions			
	MTBF		135,000 hrs min.			
	Life expectancy *		10 years min.			
Construction	Dimensions (W×H×D)		Refer to <i>Dimensions</i> on page 18.			
	Weight		250 g			
	Cooling fan		No			
	Degree of protection		---			
Standards	Harmonic current emissions		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			
	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 (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			
SEMI		Conforms to F47-0706 (200 VAC input)				

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

Item	Power rating		50 W			
	Output voltage		5 V	12 V	15 V	24 V
Efficiency *	100 VAC input		81% typ.	84% typ.	86% typ.	86% typ.
	200 VAC input		82% typ.	86% typ.	88% typ.	89% typ.
	230 VAC input		82% typ.	86% typ.	88% typ.	89% typ.
Input	Voltage range *		Single phase, 85 to 264 VAC, 120 to 370 VDC			
	Frequency *		50/60 Hz (47 to 450 Hz)			
	Current *	100 VAC input	1.1 A typ.			
		200 VAC input	0.62 A typ.			
	Power factor		---			
	Leakage current *	100 VAC input	0.5 mA max.			
		200 VAC input	1 mA max.			
Inrush current * (for a cold start at 25°C)	100 VAC input	14 A typ.				
	200 VAC input	28 A typ.				
Output	Rated Output Current		8 A	4.3 A	3.5 A	2.2A
	Voltage adjustment range *		-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 influence *		0.5% max.			
	Load variation influence *		1.0% max.			
	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.	11 ms typ.	10 ms typ.	10 ms typ.
		200 VAC input	75 ms typ.	60 ms typ.	60 ms typ.	55 ms typ.
Additional functions	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 again)			
	Overheat protection		No			
	Series operation		Yes (For up to two Power Supplies, external diodes are required.)			
	Parallel operation		No (However, backup operation is possible, external diodes are required.)			
	Remote sensing		No			
	Remote control		No			
Output indicator		Yes (LED: Green)				
Insulation	Withstand voltage		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			
1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA						
500 VAC for 1 min. (between all output terminals and RC terminals) current cutoff 20 mA						
Insulation resistance		100 MΩ min. (between all output terminals and all input terminals/PE terminals) at 500 VDC				
Environment	Ambient operating temperature		-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)			
	Ambient operating humidity		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 each in ±X, ±Y, ±Z directions			
Reliability	MTBF		135,000 hrs min.			
	Life expectancy *		10 years min.			
Construction	Dimensions (WxHxD)		Refer to <i>Dimensions</i> on page 19.			
	Weight		300 g			
	Cooling fan		No			
	Degree of protection		---			
Standards	Harmonic current emissions		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			
	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 (OVCI [≤ 2,000 m], OVCI [> 2,000 m and ≤ 3,000 m], Pol2) EN 60950-1 (OVCI [≤ 3,000 m], Pol2) Conforms to EN/IEC 61558-2-16.			
	Marine Standards		No			
SEMI		Conforms to F47-0706 (200 VAC input)				

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

Item	Power rating		100 W			
	Output voltage		5 V	12 V	15 V	24 V
Efficiency *	100 VAC input		79% typ.	84% typ.	85% typ.	87% typ.
	200 VAC input		81% typ.	86% typ.	87% typ.	89% typ.
	230 VAC input		81% typ.	86% typ.	87% typ.	89% typ.
Input	Voltage range *		Single phase, 85 to 264 VAC, 120 to 370 VDC			
	Frequency *		50/60 Hz (47 to 450 Hz)			
	Current *	100 VAC input	2.1 A typ.			
		200 VAC input	1.2 A typ.			
	Power factor		---			
	Leakage current *	100 VAC input	0.5 mA max.			
		200 VAC input	1 mA max.			
Inrush current * (for a cold start at 25°C)	100 VAC input	14 A typ.				
	200 VAC input	28 A typ.				
Output	Rated Output Current		16 A	8.5 A	7 A	4.5 A
	Voltage adjustment range *		-10% to 15% (with V.ADJ)			
	Ripple & Noise voltage *	100 to 240 VAC input	70 mVp-p max.	90 mVp-p max.	100 mVp-p max.	80 mVp-p max.
	Input variation influence *		0.5% max.			
	Load variation influence *		1.0% max.			
	Temperature variation influence	100 to 240 VAC input	0.05%/°C max.			
		Startup time *		1,000 ms max.		
	Hold time *	100 VAC input	12 ms typ.	11 ms typ.	11 ms typ.	10 ms typ.
		200 VAC input	70 ms typ.	55 ms typ.	55 ms typ.	55 ms typ.
	Additional functions	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 again)				
Overheat protection		No				
Series operation		Yes (For up to two Power Supplies, external diodes are required.)				
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)				
Insulation	Output indicator		Yes (LED: Green)			
	Withstand voltage	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				
		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		100 MΩ min. (between all output terminals and all input terminals/PE terminals) at 500 VDC				
Environment	Ambient operating temperature		-20 to 70°C (Derating is required according to the temperature. Refer to Engineering Data) (with no condensation or icing)			
	Storage temperature		-25 to 75°C (with no condensation or icing)			
	Ambient operating humidity		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 each in ±X, ±Y, ±Z directions			
Reliability	MTBF		135,000 hrs min.			
	Life expectancy *		10 years min.			
Construction	Dimensions (W×H×D)		Refer to <i>Dimensions</i> on page 20.			
	Weight		400 g			
	Cooling fan		No			
	Degree of protection		---			
Standards	Harmonic current emissions		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			
	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 [≤ 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 (OVCI [≤ 2,000 m], OVCI [> 2,000 m and ≤ 3,000 m], Pol2) EN 60950-1 (OVCI [≤ 3,000 m], Pol2) Conforms to EN/IEC 61558-2-16.			
	Marine Standards		No			
SEMI		Conforms to F47-0706 (200 VAC input)				

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

Item	Power rating		150 W				
	Output voltage		5 V	12 V	15 V	24 V	48 V
Efficiency *1	100 VAC input		78% typ.	84% typ.	85% typ.	87% typ.	85% typ.
	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.
Input	Voltage range *		Single phase, 85 to 264 VAC, 120 to 370 VDC				
	Frequency *		50 /60 Hz (47 to 450 Hz)				
	Current *	100 VAC input	3 A typ.				
		200 VAC input	1.8 A typ.				
	Power factor		---				
	Leakage current *	100 VAC input	0.5 mA max.				
		200 VAC input	1 mA max.				
Inrush current * (for a cold start at 25°C)	100 VAC input	14 A typ.					
	200 VAC input	28 A typ.					
Output	Rated Output Current		21 A	13 A	10 A	6.5 A	3.3 A
	Voltage adjustment range *		-10% to 15% (with 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 influence *		1.0% max.				
	Temperature variation influence	100 to 240 VAC input	0.05%/°C max.				
		Startup time *		1,000 ms max.			
	Hold time *	100 VAC input	14 ms typ.	10 ms typ.	10 ms typ.	10 ms typ.	11 ms typ.
		200 VAC input	80 ms typ.	55 ms typ.	55 ms typ.	55 ms typ.	55 ms typ.
	Additional functions	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 again)					
Overheat protection		No					
Series operation		Yes (For up to two Power Supplies, external diodes are required.)					
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)					
Insulation	Withstand voltage		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				
			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		100 MΩ min.(between all output terminals and all input terminals/PE terminals) at 500 VDC				
Environment	Ambient operating temperature		-20 to 70°C (Derating is required according to the temperature. Refer to Engineering Data) (with no condensation or icing)				
	Storage temperature		-25 to 75°C (with no condensation or icing)				
	Ambient operating humidity		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 each in ±X, ±Y, ±Z directions				
Reliability	MTBF		135,000 hrs min.				
	Life expectancy *		10 years min.				
Construction	Dimensions (W×H×D)		Refer to <i>Dimensions</i> on page 22.				
	Weight		500 g				
	Cooling fan		No				
	Degree of protection		---				
Standards	Harmonic current emissions		Conforms to EN 61000-3-2 (Applicable at 80% or less of the rated load.)				
	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				
	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 ≤ 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 ≤ 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 F47-0706 (200 VAC input)					

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

Item	Power rating		300 W			
	Output voltage		12 V	15 V	24 V	48 V
Efficiency *	100 VAC input		81% typ.	81% typ.	82% typ.	82% typ.
	200 VAC input		85% typ.	85% typ.	87% typ.	87% typ.
	230 VAC input		85% typ.	86% typ.	87% typ.	87% typ.
Input	Voltage range *		Single phase, 85 to 264 VAC, 120 to 370 VDC			
	Frequency *		50/60 Hz (47 to 63 Hz)			
	Current *	100 VAC input	4.2 A typ.			
		200 VAC input	2.1 A typ.			
	Power factor		0.9 min.			
	Leakage current *	100 VAC input	0.5 mA max.			
		200 VAC input	1 mA max.			
Inrush current * (for a cold start at 25°C)	100 VAC input	14 A typ.				
	200 VAC input	28 A typ.				
Output	Rated Output Current		25 A	20 A	14 A	7 A
	Voltage adjustment range *		-10% to 15% (with V.ADJ)			
	Ripple & Noise voltage *	100 to 240 VAC input	140 mVp-p max.	270 mVp-p max.	150 mVp-p max.	330 mVp-p max.
	Input variation influence *		0.5% max.			
	Load variation influence *		1.0% max.			
	Temperature variation influence	100 to 240 VAC input	0.05%/°C max.			
		Startup time *		1,000 ms max.		
	Hold time *	100 VAC input	30 ms typ.	30 ms typ.	30 ms typ.	30 ms typ.
		200 VAC input	30 ms typ.	25 ms typ.	30 ms typ.	30 ms typ.
	Additional functions	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 again)				
Overheat protection		Yes, power shut off (shut off the input voltage and turn on the input again)				
Series operation		Yes (For up to two Power Supplies, external diodes are required.)				
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)				
Insulation	Withstand voltage		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			
			1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA			
Insulation resistance		Only Remote control 500 VAC for 1 min. (between all output terminals and RC terminals) current cutoff 20 mA 100 MΩ min. (between all output terminals and all input terminals/PE terminals) at 500 VDC				
Environment	Ambient operating temperature		-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)			
	Ambient operating humidity		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 each in ±X, ±Y, ±Z directions			
Reliability	MTBF		135,000 hrs min.			
	Life expectancy *		10 years min.			
Construction	Dimensions (WxHxD)		Refer to <i>Dimensions</i> on page 24			
	Weight		700 g			
	Cooling fan		Yes			
	Degree of protection		---			
Standards	Harmonic current emissions		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			
	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			
SEMI		Conforms to F47-0706 (200 VAC input)				

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

Item	Power rating		600 W			
	Output voltage		12 V	15 V	24 V	48 V
Efficiency *	100 VAC input		84% typ.	84% typ.	85% typ.	88% typ.
	200 VAC input		88% typ.	88% typ.	89% typ.	92% typ.
	230 VAC input		88% typ.	88% typ.	90% typ.	92% typ.
Input	Voltage range *		Single phase, 85 to 264 VAC, 120 to 350 VDC			
	Frequency *		50 /60 Hz(47 to 63 Hz)			
	Current *	100 VAC input	7.7 A typ.			
		200 VAC input	3.8 A typ.			
	Power factor		0.9 min.			
	Leakage current *	100 VAC input	0.5 mA max.			
		200 VAC input	1 mA max.			
Inrush current * (for a cold start at 25°C)	100 VAC input	14 A typ.				
	200 VAC input	28 A typ.				
Output	Rated Output Current		50 A	40 A	27 A	13 A
	Voltage adjustment range *		-10% to 15% (with V.ADJ)			
	Ripple & Noise voltage *	100 to 240 VAC input	170 mVp-p max.	170 mVp-p max.	280 mVp-p max.	340 mVp-p max.
	Input variation influence *		0.5% max.			
	Load variation influence *		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.			
		Hold time *	100 VAC input	30 ms typ.	25 ms typ.	30 ms typ.
	200 VAC input		30 ms typ.	25 ms typ.	30 ms typ.	30 ms typ.
Additional functions	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 again)			
	Overheat protection		Yes, power shut off (shut off the input voltage and turn on the input again)			
	Series operation		Yes (For up to two Power Supplies, external diodes are required.)			
	Parallel operation		Yes (up to five Power Supplies, S8FS-G60024 (models with parallel operation option) only).			
	Remote sensing		No			
	Remote control		Yes (Only Remote control)			
Output indicator		Yes (LED: Green)				
Insulation	Withstand voltage		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			
			1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA			
Insulation resistance		Only Remote control 500 VAC for 1 min. (between all output terminals and RC terminals) current cutoff 20 mA 100 MΩ min. (between all output terminals and all input terminals/PE terminals) at 500 VDC				
Environment	Ambient operating temperature		-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)			
	Ambient operating humidity		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 each in ±X, ±Y, ±Z directions			
Reliability	MTBF		135,000 hrs min.			
	Life expectancy *		10 years min.			
Construction	Dimensions (WxHxD)		Refer to <i>Dimensions</i> on page 23.			
	Weight		1,050 g			
	Cooling fan		Yes			
	Degree of protection		---			
Standards	Harmonic current emissions		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			
	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			
SEMI		Conforms to F47-0706 (200 VAC input)				

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

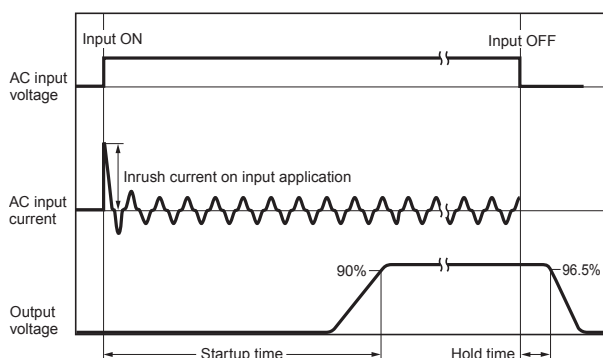
Ratings, Characteristics, and Functions

Efficiency		The value is when both rated output voltage and rated output current are satisfied.
Input	Voltage 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 result in ignition or burning.
	Frequency	
	Current	The value is when both rated output voltage and rated output current are satisfied.
	Leakage current	The values are determined according to the Act on Power Supply Safety of Electrical Appliances and Materials.
	Inrush current (for a cold start at 25°C)	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 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.
	Startup 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 <i>Overvoltage Protection</i> on page 17 for the time when input voltage shuts off and input turns on again.
Reliability	Life expectancy	Refer to <i>Recommended Replacement Periods and Periodic Replacement for Preventive Maintenance</i> on page 32 for details.
Standards	EMI	Conducted Emissions
		Radiated Emissions
		The 150-W and higher models conform to Class B when an aluminum plate is set under the 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).

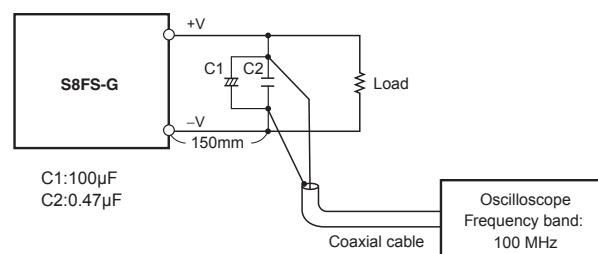
Inrush Current, Startup Time, Output Hold Time



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.



S8FS-G

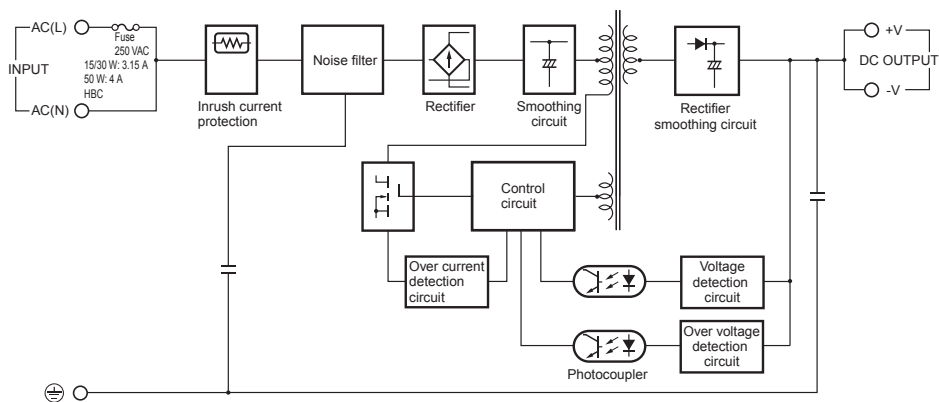
Connections

Block Diagrams

S8FS-G015□□□ (15 W)

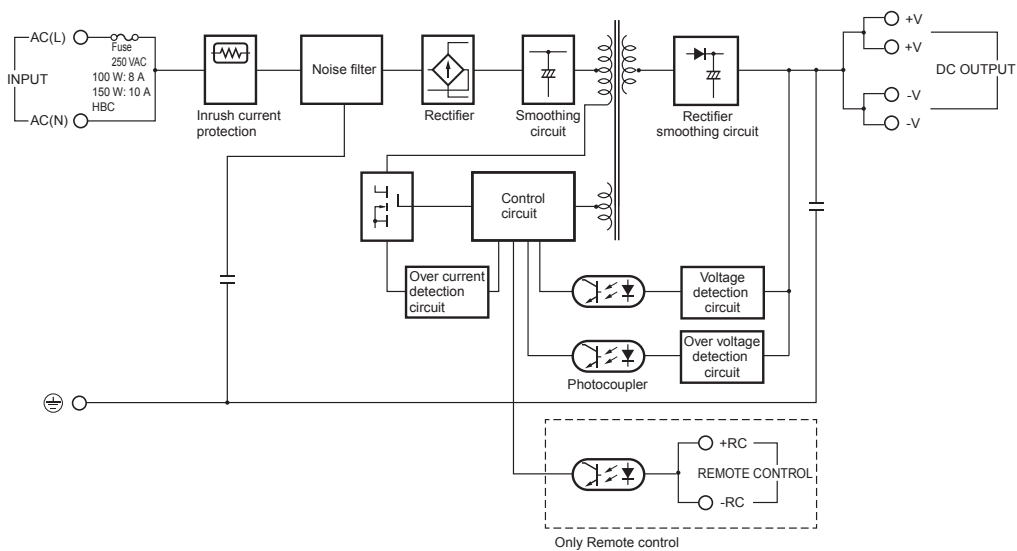
S8FS-G030□□□ (30 W)

S8FS-G050□□□ (50 W)

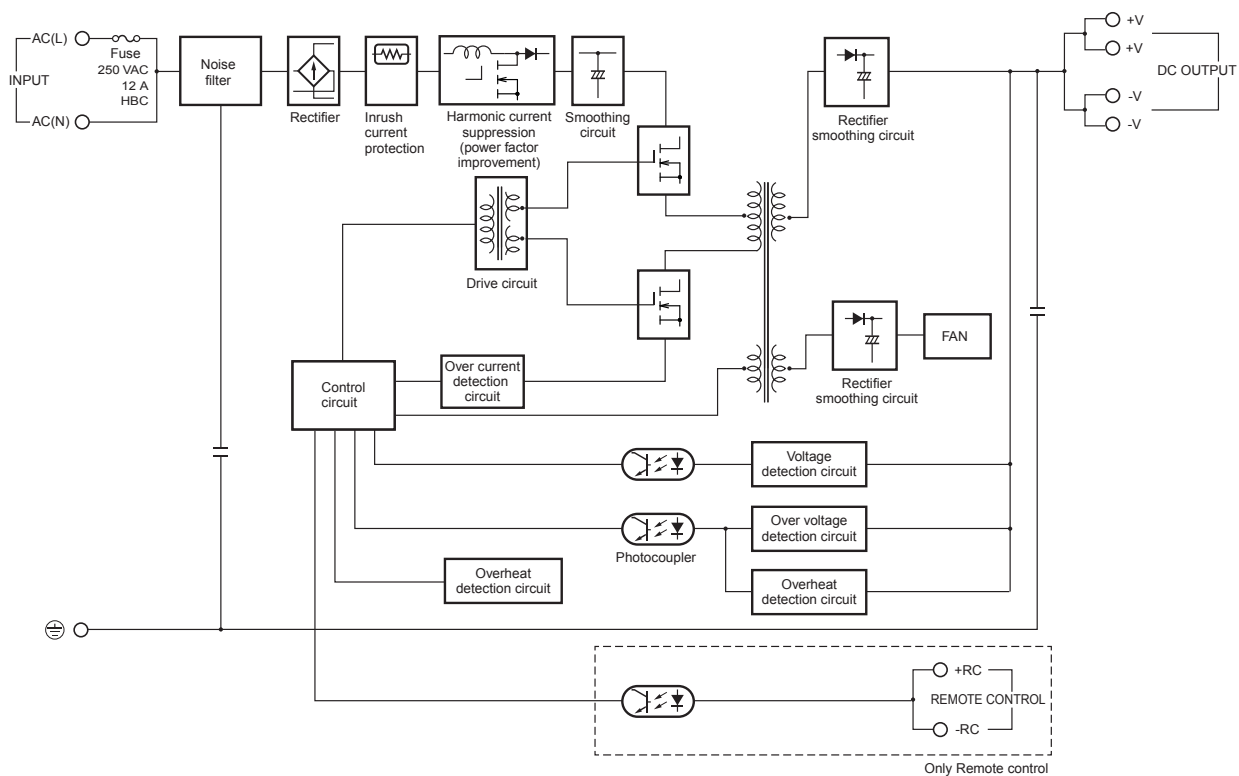


S8FS-G100□□□ (100 W)

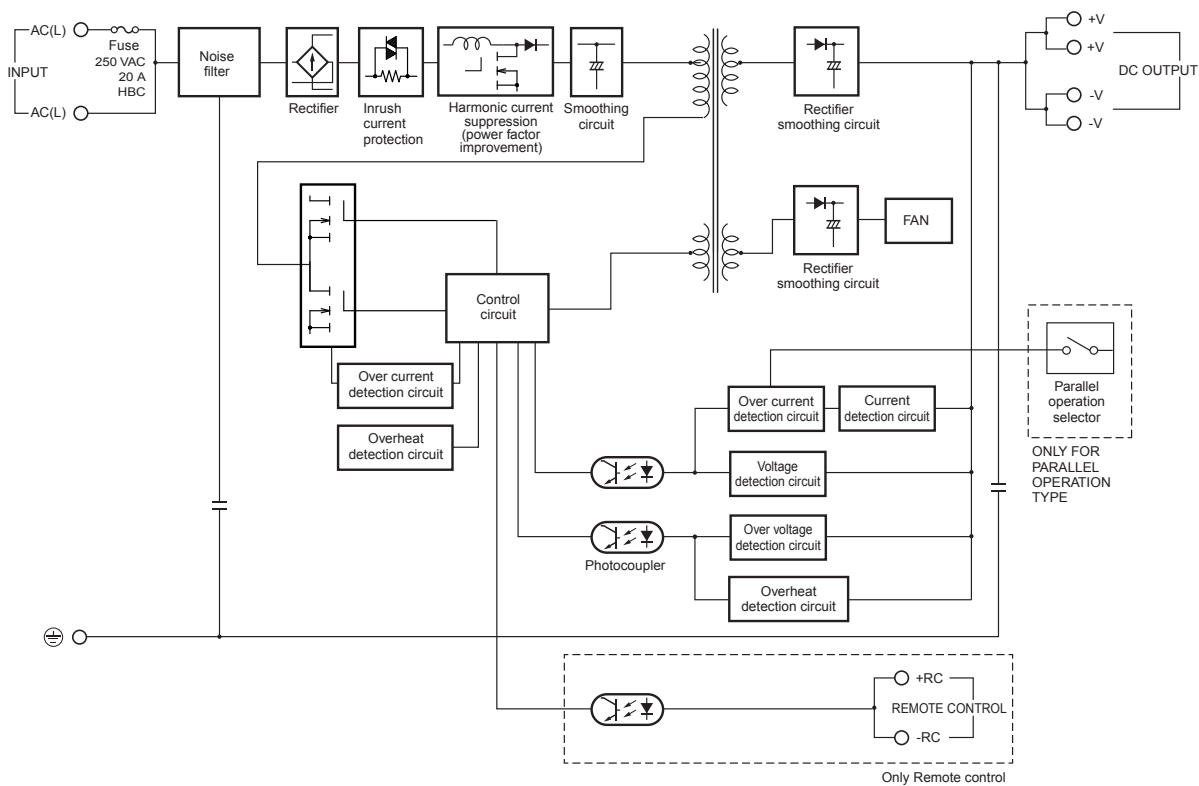
S8FS-G150□□□ (150 W)



S8FS-G300□□□ (300 W)



S8FS-G600□□□ (600 W)



S8FS-G

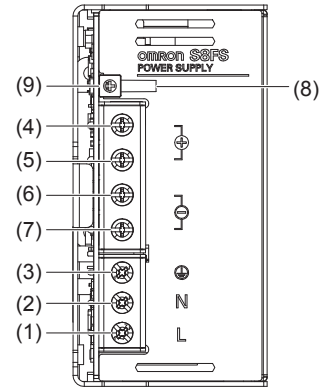
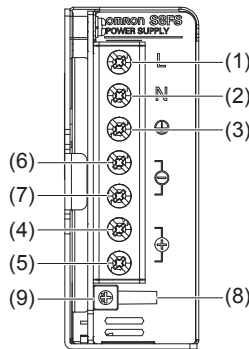
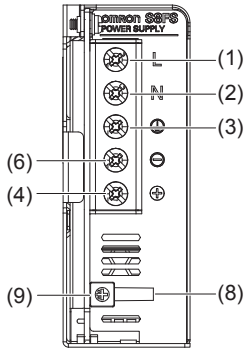
Construction and Nomenclature

Nomenclature

S8FS-G015□□□
 S8FS-G030□□□
 S8FS-G050□□□

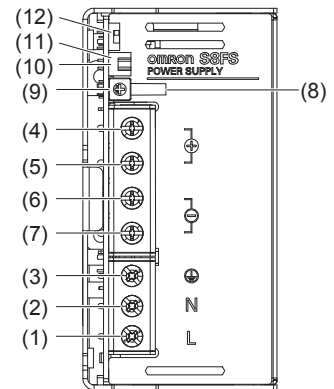
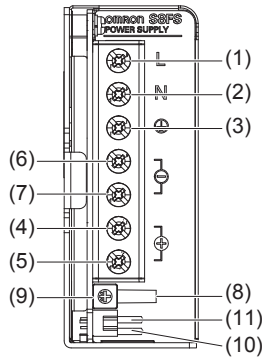
S8FS-G100□□□
 S8FS-G150□□□

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		
(3)	PE	Protective Earth terminal (⊕)	Connect the ground line to this terminal. *2
(4)	+V1	DC output terminals	Connect the load lines to these terminals.
(5)	+V2		
(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		
(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.

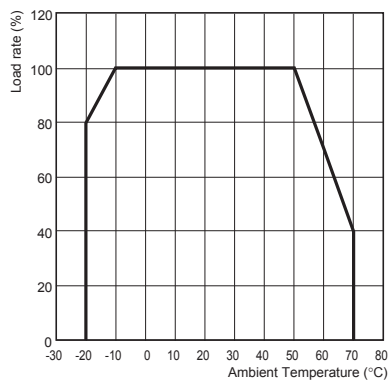
*2. This is the protective earth terminal specified in the safety standards. Always ground this terminal.

Engineering Data

Derating Curves

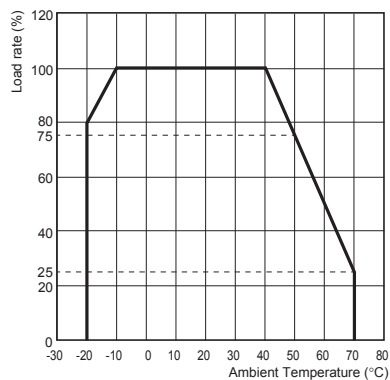
Output Derating

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



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

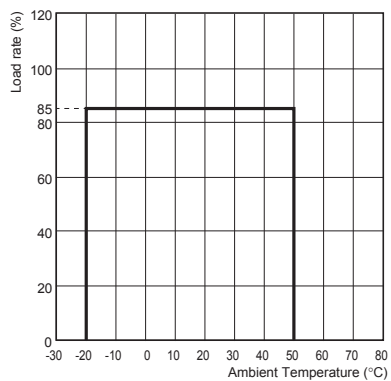
100 W and 150 W



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

Parallel Operation

For Models with Parallel Operation Option

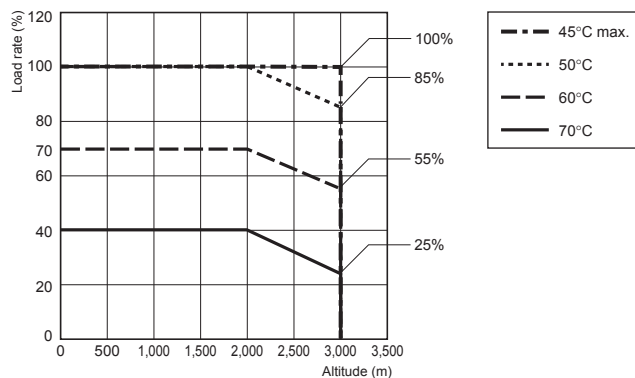


Note: At less than 100 VAC, derate the load at 1.3%/V.

S8FS-G

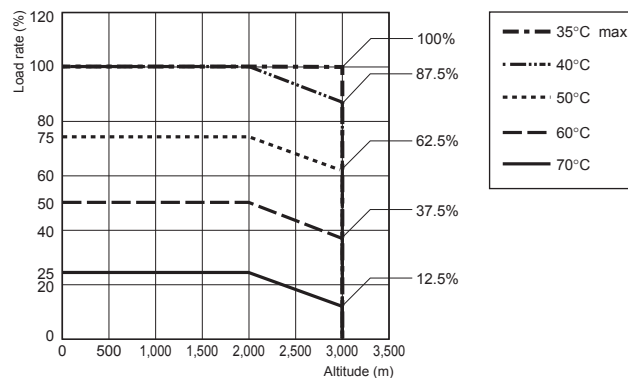
This Power Supply can be used at an altitude of 3,000 m.
Between 2,000 and 3,000 m, derate the load according to the following derating curve.

15 W, 30 W and 50 W



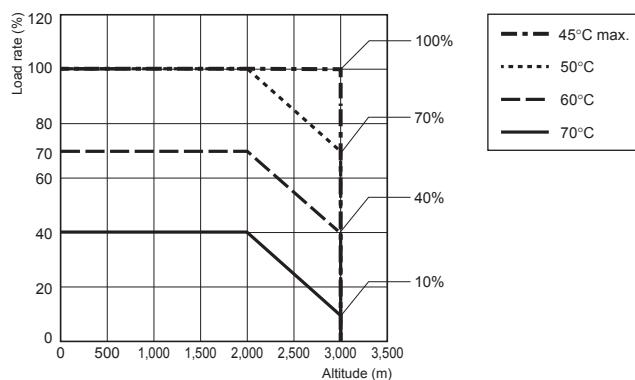
Note: At less than 100 VAC, derate the load at 1.3%/V.

100 W and 150 W



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

300 W and 600 W

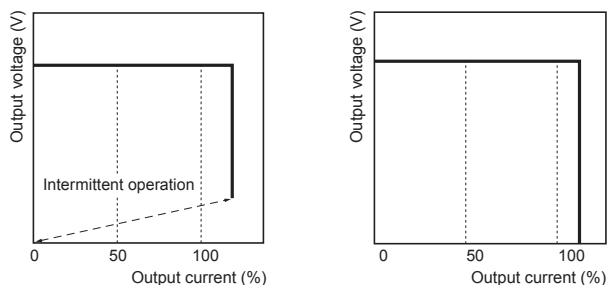


Note: At less than 100 VAC, derate the load at 1.3%/V.

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.
- 2.** 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)

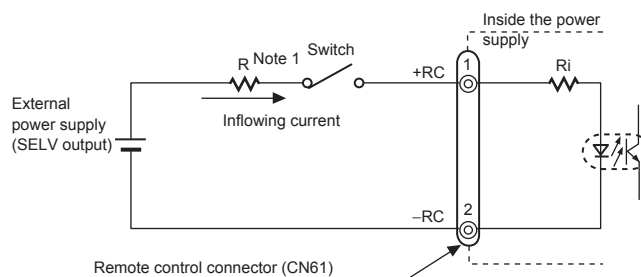
If the internal temperature of the Power Supply rises excessively as a result of fan failure or any other reason, the overheat protection circuit will be triggered to shut OFF the output voltage.

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 resistance Ri (Ω)	Voltage between +RC and -RC (V)		Inrush current (mA)
	Output ON	Output OFF	
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 kΩ 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.

S8FS-G

Dimensions

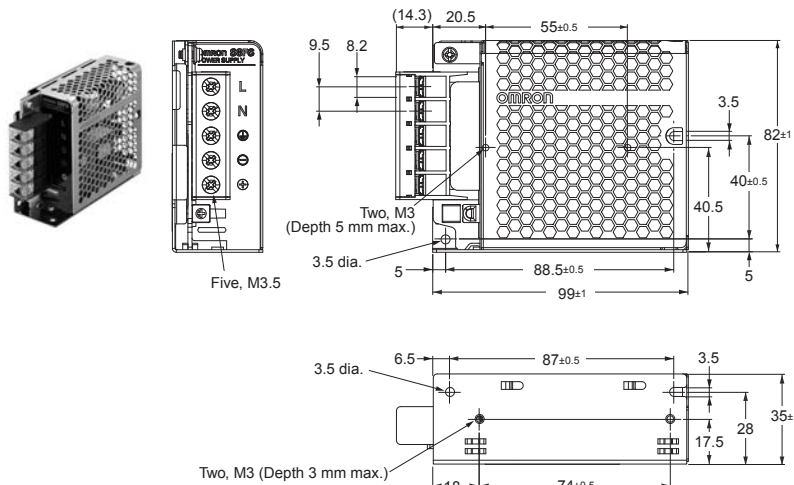
(Unit: mm)

Power Supplies

15 W and 30 W

S8FS-G015□□C

S8FS-G030□□C

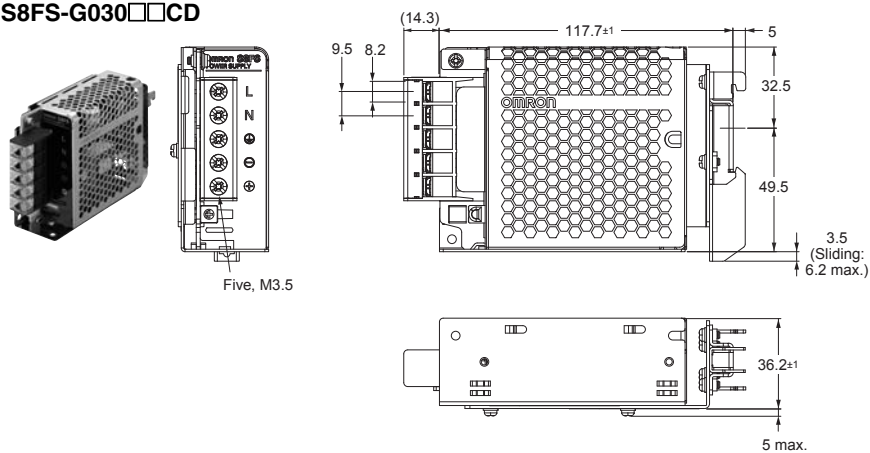


Panel mounting holes dimensions

	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.

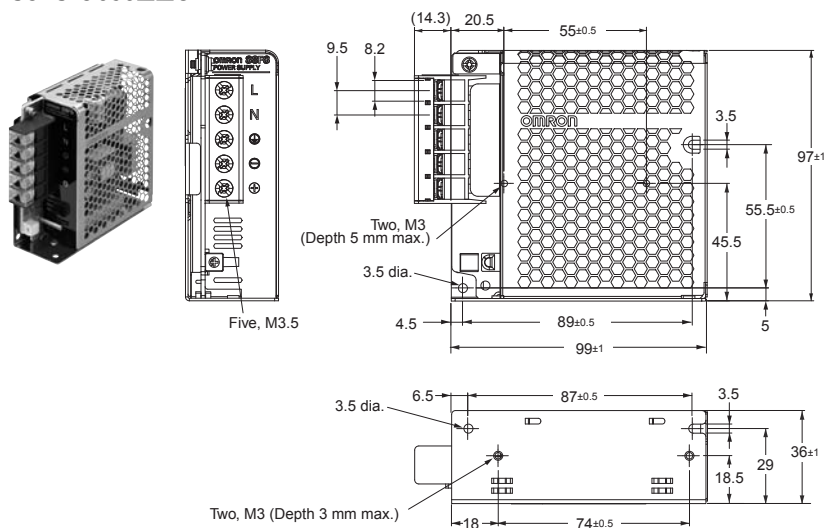
S8FS-G015□□CD

S8FS-G030□□CD



50W

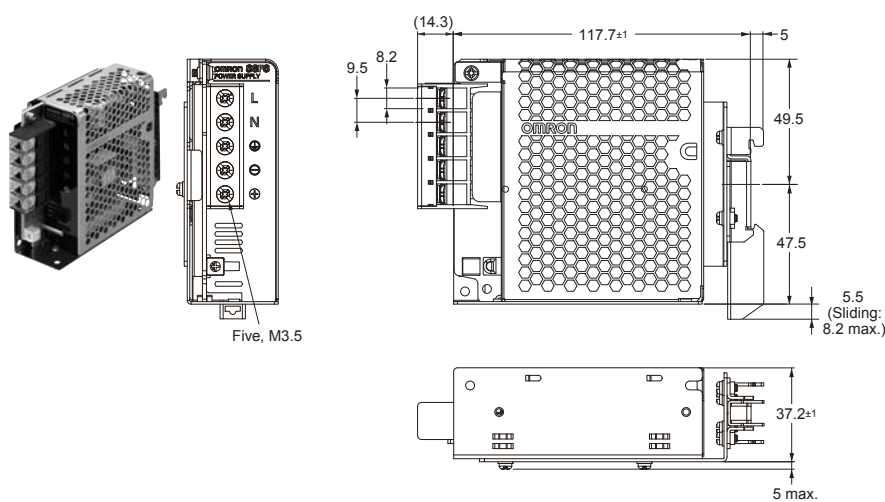
S8FS-G050□□C



Panel mounting holes dimensions

	Using the mounting holes in the Power Supply	Using the screw holes in the Power Supply
Side Mounting		
Bottom Mounting		

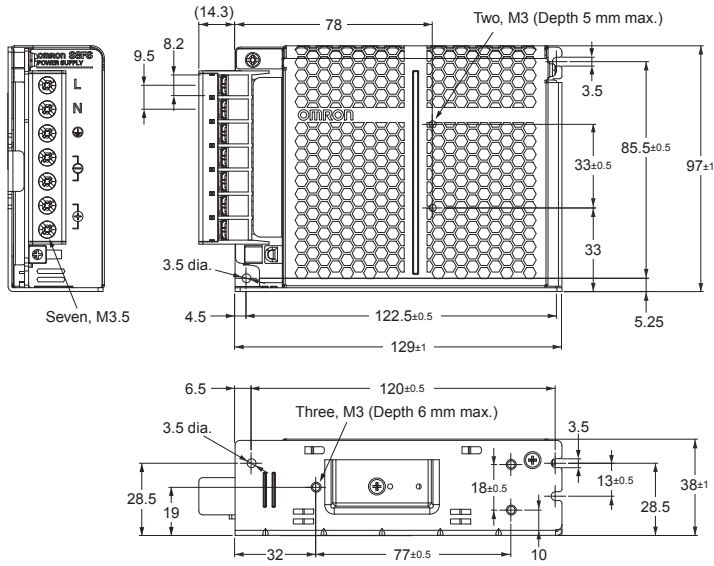
S8FS-G050□□CD



S8FS-G

100W

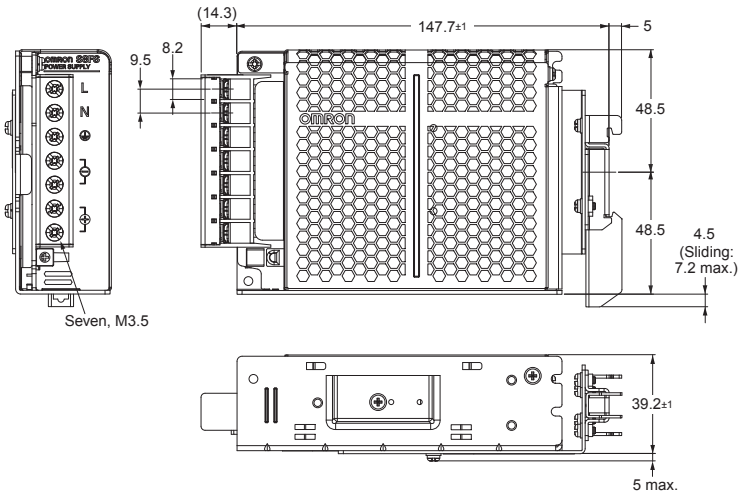
S8FS-G100□□C



Panel mounting holes dimensions

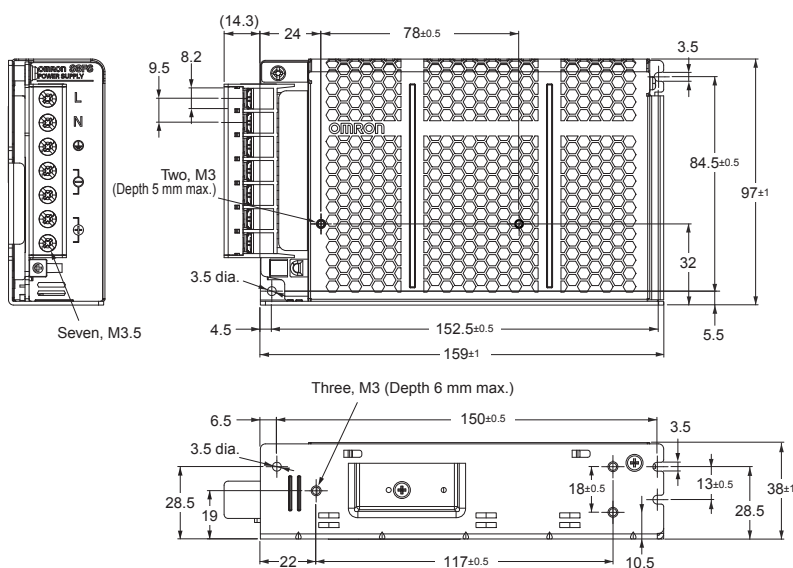
	Using the mounting holes in the Power Supply	Using the screw holes in the Power Supply
Side Mounting		
Bottom Mounting		

S8FS-G100□□CD



150W

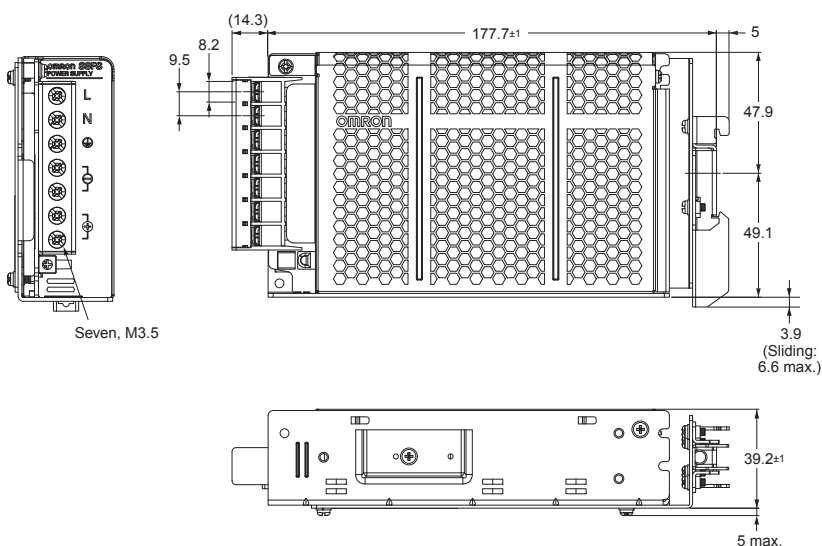
S8FS-G150□□C



Panel mounting holes dimensions

	Using the mounting holes in the Power Supply	Using the screw holes in the Power Supply
Side Mounting		
Bottom Mounting		

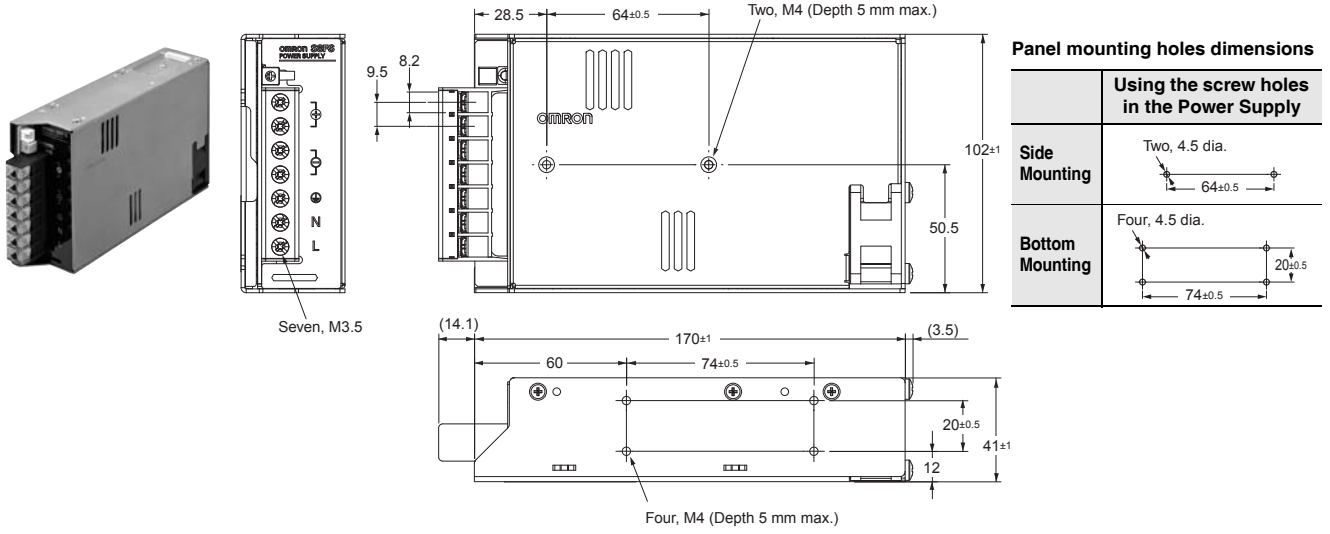
S8FS-G150□□CD



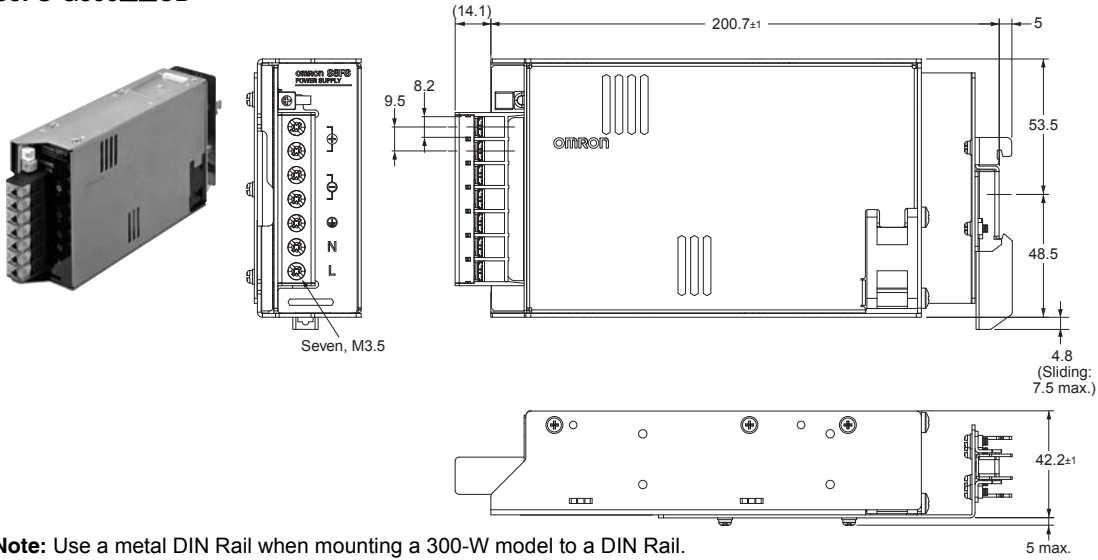
S8FS-G

300W

S8FS-G300□□C



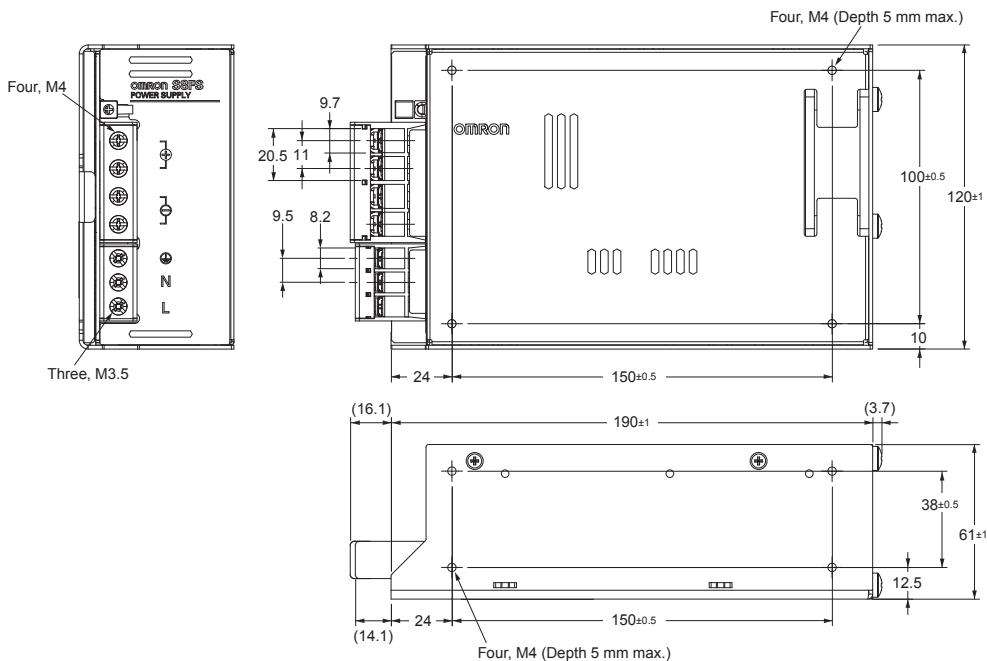
S8FS-G300□□CD



Note: Use a metal DIN Rail when mounting a 300-W model to a DIN Rail.

600W

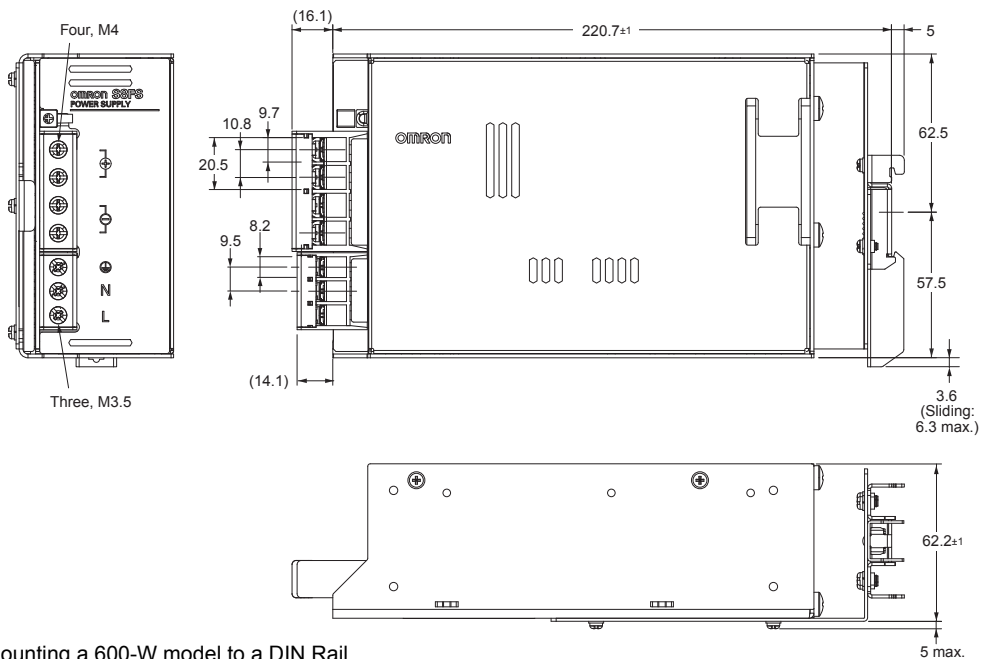
S8FS-G600□□C



Panel mounting holes dimensions

	Using the screw holes in the Power Supply
Side Mounting	<p>Four, 4.5 dia.</p> <p>150±0.5</p> <p>100±0.5</p>
Bottom Mounting	<p>Four, 4.5 dia.</p> <p>150±0.5</p> <p>38±0.5</p>

S8FS-G600□□CD



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

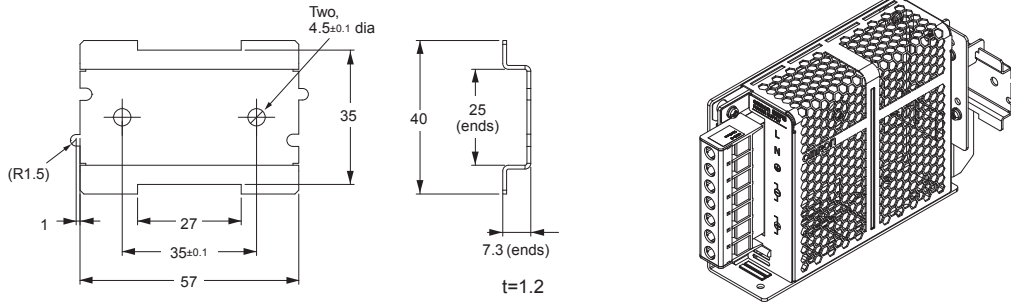
S8FS-G

Mounting Brackets (Order Separately)

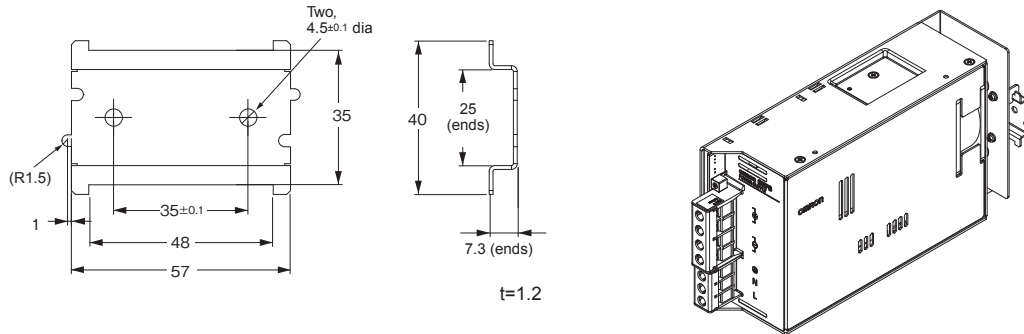
Use the Front-mounting Brackets together with DIN Rail-mounting Power Supplies (S8FS-G□□□□□CD).

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□□□□	S82Y-FSG-C5P
30 W	S8FS-G030□□□□	
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)

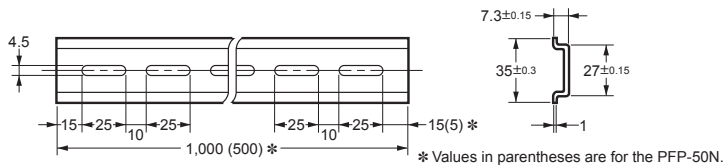
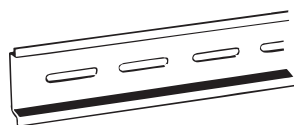
Note: A Terminal Block Cover is provided with the Power Supply as a standard accessory. You can purchase another one if your Cover is damaged or lost.

DIN Rail (Order Separately)

(Unit: mm)

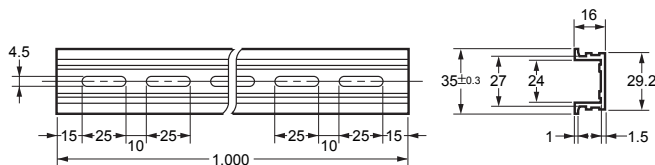
Mounting Rail (Material: Aluminum)

PFP-100N
PFP-50N



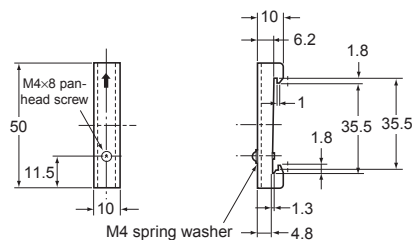
Mounting Rail (Material: Aluminum)

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.