

c**™**us ((€

Switch Mode Power Supply (15/25/35/50/75/100/150/200/350-W Models) S8FS-C

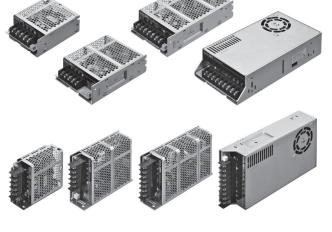
High Reliability at a Reasonable Cost. Reliable, Basic Power Supplies That Contribute to Stable Equipment Operation.

- High Reliability: Enhanced abnormal overvoltage resistance and lightning surge resistance for stable operation even with an unstable input voltage.
- Long Life: Japanese 105°C electrolytic capacitors are used to achieve stable quality and long life. A reliable 3-year warranty.*
- Wide Input Ranges: 100 to 120 VAC and 200 to 240 VAC
- Full Lineup: Models are available for the main output voltages and capacities used in FA applications.
- Global Standards: Conforms to CE (all models), Approved for UL (all models) and CCC (15 to 150-W models).
- Easy mounting to DIN Rails with Mounting Brackets.

* Refer to Period and Terms of Warranty on page 39.



Refer to Safety Precautions for All Power Supplies and Safety Precautions on page 36.



Product Lineup

Output voltage	Power rating												
(VDC)	15 W	25 W	35 W	50 W	75 W	100 W	150 W	200 W	350 W				
5 V	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
12 V	Yes	Yes	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	Yes	Yes				
36 V						Yes	Yes	Yes	Yes				
48 V				Yes	Yes	Yes	Yes	Yes	Yes				

Model Number Structure

Model Number Legend

Note: Not all combinations are possible. Refer to List of Models in Ordering Information on page 2.

S8FS-C			
	(1)	(2)	(3)

(1) Power Rating

. ,	
Code	Power rating
015	15 W
025	25 W
035	35 W
050	50 W
075	75 W
100	100 W
150	150 W
200	200 W
350	350 W

(2) Output Voltage

Code	Output voltage (VDC)				
05	5 V				
12	12 V				
15	15 V				
24	24 V				
36	36 V				
48	48 V				

(3) Configuration

Code	Terminal Block I	Direction
Blank	Models with terminal block facing upward	
J	Models with terminal block facing forward	
D	Models with DIN rail	

S8FS-C

Ordering Information

List of Models

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

Power rating	Input voltage	Output voltage (VDC)	Output current	Built-in fan	Model with terminal block facing upward	Model with terminal block facing forward	Model wtih DIN rail
		5 V	3 A			S8FS-C01505J	S8FS-C01505
45 141		12 V	1.3 A			S8FS-C01512J	S8FS-C01512
15 W		15 V	1 A			S8FS-C01515J	S8FS-C01515
		24 V	0.7 A			S8FS-C01524J	S8FS-C01524
		5 V	5 A		S8FS-C02505	S8FS-C02505J	S8FS-C02505
		12 V	2.1 A		S8FS-C02512	S8FS-C02512J	S8FS-C02512
25 W		15 V	1.7 A		S8FS-C02515	S8FS-C02515J	S8FS-C02515
		24 V	1.1 A		S8FS-C02524	S8FS-C02524J	S8FS-C02524
		5 V	7 A		S8FS-C03505	S8FS-C03505J	S8FS-C0350
	100 to 240 VAC	12 V	3 A		S8FS-C03512	S8FS-C03512J	S8FS-C03512
35 W	(allowable range:	15 V	2.4 A		S8FS-C03515	S8FS-C03515J	S8FS-C0351
	85 to 264 VAC or 120 to 370 VDC	24 V	1.5 A		S8FS-C03524	S8FS-C03524J	S8FS-C03524
	*1)	5 V	10 A		S8FS-C05005	S8FS-C05005J	S8FS-C0500
		12 V	4.2 A		S8FS-C05012	S8FS-C05012J	S8FS-C05012
50 W		15 V	3.4 A		S8FS-C05015	S8FS-C05015J	S8FS-C0501
		24 V	2.2 A		S8FS-C05024		S8FS-C0502
		48 V	1.1 A		S8FS-C05048		S8FS-C0504
	-	5 V	14 A	None	S8FS-C07505		S8FS-C0750
		12 V	6.2 A		S8FS-C07512		S8FS-C0751
75 W		15 V	5 A		S8FS-C07515		S8FS-C0751
7011		24 V	3.2 A		S8FS-C07524		S8FS-C0752
		48 V	1.6 A		S8FS-C07548		S8FS-C0754
	100 to 120 VAC.	5 V	20 A		S8FS-C10005		S8FS-C1000
	200 to 240 VAC	12 V	8.5 A		S8FS-C10012		S8FS-C1001
	(allowable range:	15 V	7 A		S8FS-C10015		S8FS-C1001
100 W	85 to 132 VAC, 176 to 264 VAC, or	24 V	4.5 A		S8FS-C10024		S8FS-C1002
	248 to 373 VDC	36 V	2.8 A		S8FS-C10036		S8FS-C1002
	(Select with the switch.)	48 V	2.3 A		S8FS-C10030	facing forward S8FS-C01505J S8FS-C01515J S8FS-C01515J S8FS-C02505J S8FS-C02505J S8FS-C02515J S8FS-C02515J S8FS-C03505J S8FS-C03505J S8FS-C03512J S8FS-C03512J S8FS-C03512J S8FS-C03505J S8FS-C05005J S8FS-C05012J S8FS-C05015J S8FS-C05015J S8FS-C05015J S8FS-C05015J S8FS-C05015J S8FS-C05015J S8FS-C05048J S8FS-C07515J S8FS-C07515J S8FS-C07515J S8FS-C07515J S8FS-C10005J S8FS-C10012J S8FS-C10015J S8FS-C10015J S8FS-C10015J S8FS-C10036J S8FS-C15005J S8FS-C20004J S8FS-C20004J S8FS-C20044J S8FS-C35005J S8FS-C35005J S8FS-C35005J S8FS-C35004J S8FS-C35004J	S8FS-C1004
	*2)	5 V	2.5 A 26 A				
			12.5 A		S8FS-C15005 S8FS-C15012		S8FS-C1500
		12 V					S8FS-C1501
150 W		15 V	10 A		S8FS-C15015		S8FS-C1501
		24 V	6.5 A		S8FS-C15024		S8FS-C1502
	100 +- 100 \/A0	36 V	4.3 A		S8FS-C15036		S8FS-C1503
	100 to 120 VAC, 200 to 240 VAC	48 V	3.3 A		S8FS-C15048		S8FS-C1504
	(allowable range:	5 V	40 A		S8FS-C20005		S8FS-C2000
	90 to 132 VAC,	12 V	17 A		S8FS-C20012		S8FS-C2001
200 W	180 to 264 VAC, or 254 to 373 VDC	24 V	8.8 A		S8FS-C20024		S8FS-C2002
	(Select with the switch.)	36 V	5.9 A		S8FS-C20036	S8FS-C01524J S8FS-C02505J S8FS-C02512J S8FS-C02515J S8FS-C02524J S8FS-C03505J S8FS-C03512J S8FS-C03512J S8FS-C03512J S8FS-C03524J S8FS-C05012J S8FS-C05015J S8FS-C05024J S8FS-C05048J S8FS-C07505J S8FS-C07512J S8FS-C07512J S8FS-C07524J S8FS-C07524J S8FS-C10015J S8FS-C10015J S8FS-C10015J S8FS-C10015J S8FS-C10024J S8FS-C15015J S8FS-C15015J S8FS-C15015J S8FS-C15015J S8FS-C15015J S8FS-C15015J S8FS-C15012J S8FS-C15015J S8FS-C15015J S8FS-C15015J S8FS-C15044J S8FS-C15044J S8FS-C15045J S8FS-C20005J S8FS-C20012J S8FS-C20012J S8FS-C20005J S8FS-C20005J S8FS-C20005J S8FS-C20005J S8FS-C20005J S8FS-C20005J S8FS-C20005J S8FS-C20005J	S8FS-C2003
	*2)	48 V	4.43 A		S8FS-C20048		S8FS-C2004
		5 V	60 A		S8FS-C35005		S8FS-C3500
		12 V	29 A		S8FS-C35012		S8FS-C3501
350 W		24 V	14.6 A	Yes	S8FS-C35024	S8FS-C35024J	S8FS-C3502
		36 V	9.7 A		S8FS-C35036		S8FS-C3503
		48 V	7.32 A		S8FS-C35048	S8FS-C35048J	S8FS-C3504

Note: You can use brackets that are sold separately to mount the Power Supplies to DIN Rail. Refer to Mounting Brackets (Order Separately) on page 29.

^{*1.} The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 240 VAC.

^{*2.} The range for compliance with EC Directives and safety standards (UL, EN, etc.) is 100 to 120 VAC, 200 to 240 VAC.

Ratings, Characteristics, and Functions

	Power rating	F 17		5 W	2417			
Outp					24 V			
*	•	* '			85% typ.			
	230 VAC input	82% typ.	85% typ.	86% typ.	87% typ.			
Voltage range *								
		standards do not apply.) (Derating is required according to the input voltage. Refer to <i>Derating Curves</i> on page 1						
Frequency *		` ′						
Current *	•	* *						
	230 VAC input							
Power factor			1	1	1			
Leakage current	•				0.05 mA			
	230 VAC input							
Inrush current *	115 VAC input	16 A typ.						
(for a cold start at 25°)	230 VAC input	32 A typ.						
Rated Output Curi	rent	3 A	1.3 A	1 A	0.7 A			
Voltage adjustmer	nt range *	-10% to 10% (with V. ADJ)						
Ripple & Noise	100 to 240				,,			
voltage *		30 mVp-p max.	30 mVp-p max.	40 mVp-p max.	30 mVp-p max.			
	<u> </u>	0.50/						
•								
Load variation infl	1	1.0% max.						
Temperature variation influence	VAC input	0.03%/°C max.						
	•	490 ms typ.	500 ms typ.	470 ms typ.	480 ms typ.			
Startup time *	<u> </u>	* *			460 ms typ.			
	•	• • • • • • • • • • • • • • • • • • • •			15 ms typ.			
Hold time *		* * * * * * * * * * * * * * * * * * * *			79 ms typ.			
Overload protectic	•	7.	or motyp.	oz mo typ.	το mo typ.			
•		Yes, 115% or higher of rated output voltage, power shut off (shut off the input voltage and turn on the input again						
<u> </u>			d output voltage, power shu	on (shut on the input vo	mage and turn on the input aga			
•)II							
· · · · · · · · · · · · · · · · · · ·		` '	•	· · ·				
•			ration is possible, external di	odes are required.)				
Remote control		No						
Output indicator		Yes (LED: Green)						
		3 kVAC for 1 min. (between all input terminals and output terminals) current cutoff 20 mA						
Withstand voltage		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 resistar	nce	,	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
Ambient operating	ı temperature	-20 to 60°C (Derating is required according to the temperature. Refer to <i>Derating Curves</i> on page 17.) (with no						
	•	<u> </u>						
		-40 to 85°C (with no condensation or icing)						
Ambient operating	humidity	20% to 90% (Storage humidity: 10% to 95%)						
Vibration resistan	ce	10 to 55 Hz, 0.375-mm half amplitude for 2 h each in X, Y, and Z directions						
		* * * * * * * * * * * * * * * * * * * *						
			A, ±1, ±∠ directions					
Ambient operating temperature Storage temperature -20 to 60°C (Derating is required according to the temperature. Refer to Derating Curves on page 17.) (with condensation or icing) Storage temperature -40 to 85°C (with no condensation or icing) 20% to 90% (Storage humidity: 10% to 95%) Vibration resistance 10 to 55 Hz, 0.375-mm half amplitude for 2 h each in X, Y, and Z directions 10 to 500 Hz, 0.26-mm half amplitude for 1 h each in X, Y, and Z directions Shock resistance 150 m/s², 3 times each in ±X, ±Y, ±Z directions 135,000 hrs min.								
• •		· '						
`	×D)		ge 23.					
Weight		150 g max.						
Cooling fan		No						
Degree of protecti	on							
Harmonic current	emissions	Conforms to EN 61000-3-2, GB17625.1						
FMI	Conducted Emissions	Conforms to EN 61204-3 Class B, EN 55011 Class B, GB9254						
	Radiated Emissions	Conforms to EN 61204-3 C	lass B, EN 55011 Class B, C	GB9254				
EMS Safety Standards		Conforms to EN 61204-3 h	igh severity levels					
		Approved Standards	ecognition) OVC II Pol2					
		CSA: cURus C22.2 No6236 CCC: GB4943 Conformed Standards EN: EN 62368-1 OVC II Po EAC (TR CU 004 / 2011, T RCM (EN61000-6-4)	12					
		CSA: cURus C22.2 No6236 CCC: GB4943 Conformed Standards EN: EN 62368-1 OVC II Po EAC (TR CU 004 / 2011, T	12					
	* Voltage range * Frequency * Current * Power factor Leakage current Inrush current * (for a cold start at 25°) Rated Output Curr Voltage adjustmer Ripple & Noise voltage * Input variation infl Load variation infl Temperature variation influence Startup time * Hold time * Overload protectic Overvoltage prote Overheat protectic Series operation Parallel operation Remote sensing Remote control Output indicator Withstand voltage Insulation resistant Ambient operating Storage temperatu Ambient operating Vibration resistance MTBF Life expectancy * Dimensions (W×H Weight Cooling fan Degree of protectic	Output voltage (VDC) * 115 VAC input 230 VAC input Voltage range * Frequency * Current * 115 VAC input 230 VAC input Power factor Leakage current Inrush current * (for a cold start at 25°) Rated Output Current Voltage adjustment range * Ripple & Noise voltage * 100 to 240 VAC input Input variation influence * Load variation influence * Temperature variation influence * 115 VAC input Rated Output Current Voltage adjustment range * Ripple & Noise voltage * 100 to 240 VAC input Input variation influence * 115 VAC input 230 VAC input Code i	Voltage range	Section Se	\$\ \$\ \$\ \ \$\ \ \ \ \ \ \ \ \ \ \ \ \			

^{*} Refer to Conditions on page 12.

		Power rating			25 W				
Item	Outpu	it voltage (VDC)	5 V	12 V	15 V	24 V			
	Outpt	115 VAC input	80% typ.	84% typ.	85% typ.	86% typ.			
Efficiency	*	230 VAC input	82% typ.	86% typ.	88% typ.	88% typ.			
		200 TAO III pat	Single phase 85 to 264 VAC, 120 to 370 VDC (The L terminal for the DC input is the positive side and safety						
Power Addisions Head Series and S	Voltage range *		standards do not apply.) (Derating is required according to the input voltage. Refer to <i>Derating Curves</i> on page 18						
	Frequency *		50 /60 Hz (47 to 450 Hz)					
	Course and all	115 VAC input	0.49 A typ.						
	Current 4	230 VAC input	0.3 A typ.						
Input	Power factor								
	Lookogo ourront	115 VAC input	0.10 mA	0.10 mA	0.10 mA	0.10 mA			
	Leakage current	230 VAC input	0.20 mA	0.20 mA 0.20 mA 0.20 i		0.20 mA			
Ī	Inrush current *	115 VAC input	16 A typ.						
	(for a cold start at 25°)	230 VAC input	32 A typ.						
	Rated Output Curr	ent	5 A	2.1 A	1.7 A	1.1 A			
	Voltage adjustmen	t range *	-10% to 10% (with V. A	DJ)					
	Ripple & Noise voltage *	100 to 240 VAC input	20 mVp-p max.	20 mVp-p max.	30 mVp-p max.	40 mVp-p max.			
Ī	Input variation infl	uence *	0.5% max.		The state of the s				
Ť	•		1.0% max.						
Output	Temperature vari-	100 to 240 VAC	0.03%/°C max.						
	ation influence	input	0.03%/°C max.						
	Voltage range * Frequency * Current * Power factor Leakage current * Inrush current * (for a cold start at 25°) Rated Output Current voltage adjustment Ripple & Noise voltage * Input variation influence Startup time * Hold time * Overload protection Overvoltage protect Overheat protection Series operation Parallel operation Remote sensing Remote control Output indicator Withstand voltage Insulation resistance Ambient operating to Storage temperature Ambient operating to Storage tem	115 VAC input	390 ms typ.	340 ms typ.	400 ms typ.	360 ms typ.			
		230 VAC input	360 ms typ.	350 ms typ.	400 ms typ.	360 ms typ.			
	Hold time *	115 VAC input	17 ms typ.	22 ms typ.	23 ms typ.	21 ms typ.			
	TIOIG GITTE TO	230 VAC input	103 ms typ.	113 ms typ.	117 ms typ.	112 ms typ.			
	Overload protection	n	Yes, automatic reset						
	Overvoltage protection *		Yes, 115% or higher of rated output voltage, power shut off (shut off the input voltage and turn on the input again						
vaai-	Overheat protection	n	No						
tional	Series operation		Yes (For up to 2 Power	Supplies, external diodes a	are required.)				
ional Serie unc- ions Para	Parallel operation		No (However, backup o	peration is possible, extern	nal diodes are required.)				
	Remote sensing		No						
	Remote control		No						
Ī	Output indicator		Yes (LED: Green)						
			3 kVAC for 1 min. (between all input terminals and output terminals) current cutoff 20 mA						
Insula-	Withstand voltage		2 kVAC for 1 min. (between all input terminals and PE terminals) current cutoff 20 mA						
tion	3-		1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA						
	Insulation resistan	ce	,	· ·	· · · · · · · · · · · · · · · · · · ·				
			100 MΩ min. (between all output terminals and all input terminals/PE terminals) at 500 VDC -20 to 60°C (Derating is required according to the temperature. Refer to <i>Derating Curves</i> on page 17.) (with no						
	Ambient operating	temperature	condensation or icing)						
	Storage temperatu	re	-40 to 85°C (with no co	ndensation or icing)					
Envi- ronment	Ambient operating	humidity	20% to 90% (Storage hi	umidity: 10% to 95%)					
· Janiont	Vibration registance	:e	,	half amplitude for 2 h each					
			· ·	half amplitude for 1 h each	in X, Y, and Z directions				
			150 m/s ² , 3 times each	in ±X, ±Y, ±Z directions					
			135,000 hrs min.						
ity			10 years min.						
0	Dimensions (W×H>	⟨D)	Refer to <i>Dimensions</i> on	pages 20 and 23.					
Con- struc-			250 g max.						
tion	Cooling fan		No						
	Degree of protection	on							
	Harmonic current	emissions	Conforms to EN 61000-3-2, GB17625.1						
	EMI	Conducted Emissions	Conforms to EN 61204-	3 Class B, EN 55011 Clas	s B, GB9254				
		Radiated Emissions	Conforms to EN 61204-	3 Class B, EN 55011 Clas	s B, GB9254				
	EMS		Conforms to EN 61204-	3 high severity levels					
Stan- dards	Safety Standards		Approved Standards UL: cURus UL 62368-1 CSA: cURus C22.2 No6 CCC: GB4943 Conformed Standards EN: EN 62368-1 OVC II EAC (TR CU 004 / 2011 RCM (EN61000-6-4)	Pol2					
			RCM (EN61000-6-4)						
	Marine Standards		No						

^{*} Refer to *Conditions* on page 12.

		Power rating			35 W					
Item	Outn	ut voltage (VDC)	5 V	5 V 12 V 15 V 24 V						
	Cutp	115 VAC input	81% typ.	83% typ.	84% typ.	87% typ.				
Efficiency	*	230 VAC input	81% typ.	84% typ.	84% typ.	87% typ.				
		200 VAO Input	**	, , , , , , , , , , , , , , , , , , ,		s the positive side and safety				
	Voltage range *		standards do not apply.) (Derating is required according to the input voltage. Refer to <i>Derating Curves</i> on page 18							
	Frequency *		50 /60 Hz (47 to 450 Hz	z)						
	O	115 VAC input	0.66 A typ.	0.66 A typ.						
	Current *	230 VAC input	0.41 A typ.							
Input	Power factor	•								
	1	115 VAC input	0.15 mA	0.15 mA	0.15 mA	0.15 mA				
	Leakage current	230 VAC input	0.30 mA	0.25 mA	0.25 mA	0.25 mA				
	Inrush current *	115 VAC input	16 A typ.							
	(for a cold start at 25°)	230 VAC input	32 A typ.							
	Rated Output Curr	ent	7 A	3 A	2.4 A	1.5 A				
	Voltage adjustment range *		-10% to 10% (with V. A	ADJ)						
	Ripple & Noise voltage *	100 to 240 VAC input	80 mVp-p max.	90 mVp-p max.	90 mVp-p max.	80 mVp-p max.				
	Input variation infl	uence *	0.5% max.	<u> </u>						
O	Load variation infl	uence *	1.0% max.							
Output T a	Temperature variation influence	100 to 240 VAC input	0.03%/°C max.							
	Startun tima sh	115 VAC input	750 ms typ.	750 ms typ.	760 ms typ.	770 ms typ.				
Additional functions Re	Startup time *	230 VAC input	700 ms typ.	690 ms typ.	710 ms typ.	720 ms typ.				
	Hald time - 4	115 VAC input	13 ms typ.	14 ms typ.	14 ms typ.	15 ms typ.				
	Hold time *	230 VAC input	74 ms typ.	75 ms typ.	75 ms typ.	79 ms typ.				
	Overload protection	n	Yes, automatic reset	<u> </u>						
	Overvoltage protection *		Yes, 115% or higher of rated output voltage, power shut off (shut off the input voltage and turn on the input aga							
	Overheat protection		No							
Addi- tional S func- tions R	Series operation		Yes (For up to 2 Power	Supplies, external diodes a	are required.)					
	Parallel operation		No (However, backup	operation is possible, exterr	nal diodes are required.)					
	Remote sensing		No							
	Remote control		No							
	Output indicator		Yes (LED: Green)							
	Withstand voltage		3 kVAC for 1 min. (between all input terminals and output terminals) current cutoff 20 mA							
Insula-			2 kVAC for 1 min. (between all input terminals and PE terminals) current cutoff 20 mA							
tion			1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA							
	Insulation resistan	ce	100 M Ω min. (between all output terminals and all input terminals/PE terminals) at 500 VDC							
	Ambient operating	temperature	-20 to 60°C (Derating is required according to the temperature. Refer to <i>Derating Curves</i> on page 17.) (with no condensation or icing)							
	Storage temperatu	re	-40 to 85°C (with no condensation or icing)							
Envi-	Ambient operating		20% to 90% (Storage humidity: 10% to 95%)							
ronment	Vibration resistance		10 to 55 Hz, 0.375-mm	half amplitude for 2 h each half amplitude for 1 h each						
	Shock resistance		150 m/s², 3 times each in ±X, ±Y, ±Z directions							
	MTBF		135,000 hrs min.							
	Life expectancy *		10 years min.							
	Dimensions (W×H>	⟨D)	Refer to <i>Dimensions</i> or	pages 20 and 23.						
Con-	Weight		250 g max.							
struc-	Cooling fan		No							
	Degree of protection	on								
	Harmonic current		Conforms to EN 61000-3-2, GB17625.1							
	FAAL	Conducted Emissions	Conforms to EN 61204-3 Class B, EN 55011 Class B, GB9254							
	ЕМІ	Radiated Emissions	Conforms to EN 61204	-3 Class B, EN 55011 Clas	s B, GB9254					
	EMS		Conforms to EN 61204	-3 high severity levels						
Stan- dards	Safety Standards		Approved Standards UL: cURus UL: 62368-1 (Recognition) OVC II Pol2 CSA: cURus C22.2 No62368-1 CCC: GB4943 Conformed Standards EN: EN 62368-1 OVC II Pol2 EAC (TR CU 004 / 2011, TR CU 020 / 2011)							
			RCM (EN61000-6-4)							
	Marine Standards		No (EN61000-6-4)							

^{*} Refer to Conditions on page 12.

		Power rating			50 W				
tem	Outp	out voltage (VDC)	5 V	12 V	15 V	24 V	48 V		
	<u> </u>		79% typ.	83% typ.	84% typ.	86% typ.	87% typ.		
Efficiency	/ *	· .	- ''				87% typ.		
		15 VA C input 24 V 15 V 24 V 25 V 26 V 26 V 26 V 26 V 27 V 28							
	Voltage range *								
	Frequency *		50 /60 Hz (47 to 450	Hz)					
		115 VAC input	0.97 A typ.						
	Current *	230 VAC input	* *						
Input	Power factor								
		115 VAC input	0.25 mA	0.25 mA	0.25 mA	0.25 mA	0.25 mA		
	Leakage current	•					0.55 mA		
	1	•		0.55 1117	0.55 1117	0.00 1117	0.00 1117		
		•							
	,	•		404	0.4.4	0.0.4	444		
	•				3.4 A	2.2 A	1.1 A		
			-10% to 10% (with \	V. ADJ)					
	Ripple & Noise voltage *		80 mVp-p max.	110 mVp-p max.	100 mVp-p max.	100 mVp-p max.	120 mVp-p max.		
		· ·	0.50/						
	•								
Output		1	1.0% max.						
	Temperature vari- ation influence		0.03%/°C max.						
	adon initiative	· ·	730 ms tvn	730 ms tvs	710 ms turs	710 ms tvs	770 ms tvs		
Additions Corrections Correction Corre	Startup time *						770 ms typ.		
		ļ	* '				690 ms typ.		
	Hold time *	•	7.		- ''		14 ms typ.		
		· · · · · · · · · · · · · · · · · · ·	- ''		78 ms typ.	77 ms typ.	80 ms typ.		
	Overload protection	on	Yes, automatic rese	t					
	Overvoltage protect	ction *	Yes, 115% or higher of rated output voltage, power shut off (shut off the input voltage and turn on the input aga						
۸ddi-	Overheat protection	on	No						
tional Solutions R	Series operation		Yes (For up to 2 Por	wer Supplies, external	diodes are required.)				
	Parallel operation		No (However, back	up operation is possib	le, external diodes are i	required.)			
	Remote sensing		No						
	Remote control		No						
	Output indicator								
			, , ,	netween all innut termi	nals and output termina	ds) current cutoff 20 m/	1		
	Withstand voltage								
	Withstand Voltage		·						
	Inculation register								
	insulation resistan	ice							
	Ambient operating	temperature							
	Storage temperatu	Iro							
Envi-			,						
ronment	Ambient operating	indinialty	, , , , , , , , , , , , , , , , , , , ,						
	Vibration resistant	ce							
	Shock resistance			· · · · · · · · · · · · · · · · · · ·		<u></u>			
Dollar !!	MTBF		· · · · · · · · · · · · · · · · · · ·	~~ <u></u> , <u></u> <u> unec</u>					
			,						
-,				on pages 20 and 24					
Con-	`	~ D)		on payes 20 and 24.					
struc-	Weight		<u> </u>						
tion	Cooling fan								
	Harmonic current	1	Conforms to EN 61000-3-2, GB17625.1						
		Conducted Emissions	Conforms to EN 612	204-3 Class B, EN 550	11 Class B, GB9254				
	ЕМІ								
		Radiated Emissions	Conforms to EN 612	204-3 Class B, EN 550	011 Class B, GB9254				
	EMS		Conforms to EN 61204-3 high severity levels						
			Approved Standards						
Stan-				s 68-1 (Recognition) OV	C II Pol2				
dards			CSA: cURus C22.2						
	Safety Standards		CCC: GB4943	do					
			Conformed Standard EN: EN 62368-1 OV						
				2011, TR CU 020 / 201	11)				
			RCM (EN61000-6-4		·				
	Marine Standards		No						
	SEMI		No						
Refer to		ge 12.	`	,					

^{*} Refer to Conditions on page 12.

		Power rating			75 W					
Item	Outp	ut voltage (VDC)	5 V	12 V	15 V	24 V	48 V			
		115 VAC input	75% typ.	83% typ.	84% typ.	87% typ.	87% typ.			
Efficiency	/ *	230 VAC input	77% typ.	83% typ.	84% typ.	87% typ.	87% typ.			
	V-lt					the DC input is the pos	sitive side and safety			
	Voltage range *					ut voltage. Refer to Dera				
	Frequency *		50 /60 Hz (47 to 450 Hz)							
		115 VAC input	1.4 A typ.							
	Current *	230 VAC input	0.83 A typ.							
Input	Power factor									
		115 VAC input	0.25 mA	0.25 mA	0.25 mA	0.25 mA	0.25 mA			
	Leakage current	-	0.60 mA	0.60 mA	0.60 mA	0.60 mA	0.60 mA			
	Inrush ourront &	·	16 A typ							
		-	•							
	,			6 2 A	5 Δ	324	16Δ			
	•			1	3 A	3.2 A	1.0 A			
	,		-10% to 10% (with	V. ADJ)						
			80 mVp-p max.	110 mVp-p max.	90 mVp-p max.	110 mVp-p max.	140 mVp-p max.			
	0	+ · · · · · · · · · · · · · · · · · · ·	0.5% max							
	•									
Output										
	ation influence	input	0.03%/°C max.							
		-	750 ms tvp.	720 ms tvp.	730 ms tvp.	750 ms tvp.	700 ms typ.			
	Voltage range * Frequency * Current * Power factor Leakage current Inrush current * (for a cold start at 25°) Rated Output Cur Voltage adjustme Ripple & Noise voltage * Input variation inf Load variation inf Temperature variation influence Startup time * Hold time * Overload protecti Overvoltage protecti Series operation Parallel operation Remote sensing Remote control Output indicator Withstand voltage Insulation resistar Ambient operatin Vibration resistar Shock resistance eliabil- Vibration resistar Shock resistance eliabil- Vibration resistar Shock resistance eliabil- Cooling fan Degree of protect Harmonic current EMI EMS	-	,		7.		, ,			
		•	,,							
	Hold time *		* '				- ''			
	Overland protection	· · · · · · · · · · · · · · · · · · ·	* '	* * * * * * * * * * * * * * * * * * * *	74 ms typ.	70 ms typ.	70 ms typ.			
	•					"···				
Addi-	•	on								
tional	Series operation		Yes (For up to 2 Por	wer Supplies, external	diodes are required.)					
func-	Parallel operation		No (However, backup operation is possible, external diodes are required.)							
lions	Remote sensing		No							
	Remote control		No							
	Output indicator		Yes (LED: Green)							
			3 kVAC for 1 min. (b	etween all input termi	nals and output termina	als) current cutoff 20 mA	4			
Insula-	Withstand voltage		2 kVAC for 1 min. (between all input terminals and PE terminals) current cutoff 20 mA							
tion			1 kVAC for 1 min. (b	petween all output tern	ninals and PE terminals	s) current cutoff 20 mA				
	Insulation resistar	ice	,	· · · · · · · · · · · · · · · · · · ·		,	'DC			
	Ambient operating	j temperature	condensation or icing)							
	Storage temperatu	ire	-40 to 85°C (with no condensation or icing)							
Envi-	Ambient operating	humidity	20% to 90% (Storac	e humidity: 10% to 95	%)					
ronment		-								
	Vibration resistan	ce	10 to 500 Hz, 0.26-mm half amplitude for 1 h each in X, Y, and Z directions							
	Shock resistance		150 m/s², 3 times each in ±X, ±Y, ±Z directions							
Reliabil-	MTBF		135,000 hrs min.							
ity		Solicy 1.5 1								
-	•	The stand voltage 230 VAC input 710 ms typ. 680 ms typ. 690 ms typ. 690 ms typ. 730 ms typ. 115 ms typ. 13 ms typ. 13 ms typ. 14 ms typ. 15 ms typ. 160 ad protection 75 ms typ. 74 ms typ. 74 ms typ. 76 ms typ. 78 ms								
Con-	`	······		5 011 pag00 21 and 21.						
struc-			- v							
tion	<u> </u>									
	•			200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
	Harmonic current	1	Contorms to EN 610	JUU-3-2, GB17625.1						
			Conforms to EN 612	204-3 Class B, EN 550	11 Class B, GB9254					
	ЕМІ	-								
			Conforms to EN 612	204-3 Class B, EN 550	011 Class B, GB9254					
	FMS		Conforms to EN 610	204-3 high soverity love	als					
	LIVIO				010					
Stan-					C II Pol2					
dards					O II I OIL					
	Safety Standards		CCC: GB4943							
	,									
					11)	3.2 A 750 ms typ. 690 ms typ. 14 ms typ. 76 ms typ. 76 ms typ. 16 sare required.) erminals) current cutoff 20 mA minals) current cutoff 20 mA minals ourrent cutof				
					,					
	Marine Standards		`							
	SEMI									

^{*} Refer to Conditions on page 12.

		Power rating	100 W								
Item		Output voltage (VDC)	5 V 12 V 15 V 24 V 36 V 48 V								
iteiii		115 VAC input	80% typ.	82% typ.	83% typ.	85% typ.	86% typ.	87% typ.			
Efficiency	/ *	230 VAC input	81% typ.	83% typ.	84% typ.	87% typ.	87% typ.	88% typ.			
	Voltage range *	230 VAC iliput	Single phase 85 (The L terminal	to 132 VAC, 17 for the DC input	6 to 264 VAC, 248 t is the positive side a	o 373 VDC Sele and safety stand	ect with the switch.				
	Frequency *		50 /60 Hz (47 to	450 Hz)							
	O	115 VAC input	2 A typ.								
nput	Current *	230 VAC input	1.1 A typ.								
•	Power factor										
	Leakage current	115 VAC input	0.35 mA	0.35 mA	0.35 mA	0.35 mA	0.40 mA	0.40 mA			
	Leakage carrent	230 VAC input	0.60 mA	0.60 mA							
	Inrush current *	115 VAC input	32 A typ.								
	,	230 VAC input	32 A typ.								
	•		20 A	8.5 A	7 A	4.5 A	2.8 A	2.3 A			
			-10% to 10% (v	· · · · · · · · · · · · · · · · · · ·							
	voltage *	100 to 120 VAC/200 to 240 VAC input	70 mVp-p max.	100 mVp-p max.	70 mVp-p max.	120 mVp-p max.	90 mVp-p max.	120 mVp-p max.			
			0.5% max.								
Output	Voltage range * Frequency * Current * Power factor Leakage current * (for a cold start at 25°) Rated Output Currer Voltage adjustment Ripple & Noise voltage * Input variation influt Load variation influt Temperature variation influence Startup time * Hold time * Overload protection Overvoltage protect Overheat protection Series operation Parallel operation Remote sensing Remote control Output indicator Withstand voltage Insulation resistance Withstand voltage Insulation resistance Shock resistance MTBF Life expectancy * Dimensions (W×H× Weight Cooling fan Degree of protection Harmonic current e EMI EMS	100 to 120 VAC/200 to	1.0% max. 0.03%/°C max.								
		240 VAC input 115 VAC input	710 ms typ.	440 ms typ.	440 ms typ.	430 ms typ.	450 ms typ.	430 ms typ.			
		230 VAC input	710 ms typ. 720 ms typ.	700 ms typ.	720 ms typ.	660 ms typ.	690 ms typ.	660 ms typ.			
		115 VAC input	23 ms typ.	37 ms typ.	36 ms typ.	34 ms typ.	36 ms typ.	34 ms typ.			
	Hold time ∗	230 VAC input	29 ms typ.	40 ms typ.	39 ms typ.	39 ms typ.	41 ms typ.	38 ms typ.			
	Overload protection	· · · · · · · · · · · · · · · · · · ·			39 ms typ.	39 His typ.	41 ms typ.	so ms typ.			
	•		Yes, automatic reset Yes, 115% or higher of rated output voltage, power shut off (shut off the input voltage and turn on the input aga								
	Overheat protection		No								
ional Se	<u> </u>		Yes (For up to 2 Power Supplies, external diodes are required.)								
	·		No (However, backup operation is possible, external diodes are required.)								
	•		No		, , , , , , , , , , , , , , , , , , ,		1=				
	,		No								
	Output indicator		Yes (LED: Green)								
			3 kVAC for 1 min. (between all input terminals and output terminals) current cutoff 20 mA								
Insula-	Withstand voltage		2 kVAC for 1 min. (between all input terminals and PE terminals) current cutoff 20 mA								
tion			1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA								
	Insulation resistan	ice	100 MΩ min. (be	etween all outpu	t terminals and all in	put terminals/PE	E terminals) at 500 \	/DC			
	Ambient operating	temperature	-20 to 60°C (Derating is required according to the temperature. Refer to <i>Derating Curves</i> on page 17.) (with no condensation or icing)								
	Storage temperatu	ire	,	th no condensati	on or icina)						
Envi-	Remote sensing Remote control Output indicator Withstand voltage Insulation resista Ambient operation Storage tempera		-								
ronment		· · · · · ·	20% to 90% (Storage humidity: 10% to 95%) 10 to 55 Hz, 0.375-mm half amplitude for 2 h each in X, Y, and Z directions								
	vibration resistant	;e	10 to 500 Hz, 0.26-mm half amplitude for 1 h each in X, Y, and Z directions								
				es each in $\pm X$, $\pm Y$	', ±Z directions						
Reliabil-			135,000 hrs mir	١.							
ity	•		10 years min.	•							
Con-	`	(U)		sions on pages 2	1 and 24.						
struc-			400 g max.								
tion		-n	No								
				161000 2 2 00	17625 1						
	namonic current	Conducted Emissions		l 61000-3-2, GB	B, EN 55011 Class	B GB0254					
	ЕМІ	Radiated Emissions									
	EMS	Tiddiated Ellissions	Conforms to EN 61204-3 Class B, EN 55011 Class B, GB9254 Conforms to EN 61204-3 high severity levels								
Stan- dards			Conforms to EN 61204-3 high severity levels Approved Standards UL: cURus UL 62368-1 (Recognition) OVC II Pol2 CSA: cURus C22.2 No62368-1 CCC: GB4943 Conformed Standards EN: EN 62368-1 OVC II Pol2 EAC (TR CU 004 / 2011, TR CU 020 / 2011)								
			RCM (EN61000-6-4)								
	Marine Standards		No (EN61000	1-0-4)							

^{*} Refer to Conditions on page 12.

Item		Power rating			1	50 W								
telli		Output voltage (VDC)	5 V 12 V 15 V 24 V 36 V 48 V											
		115 VAC input	81% typ.	84% typ.	85% typ.	86% typ.	86% typ.	87% typ.						
Efficiency	/ *	230 VAC input	82% typ.	85% typ.	86% typ.	87% typ.	87% typ.	88% typ.						
	Voltage range ∗	<u> </u>	Single phase 90 to 132 VAC, Single phase 180 to 264 VAC, 254 to 373 VDC Select with the switch. (The L terminal for the DC input is the positive side and safety standards do not apply.) [Derating is required according to the input voltage. Refer to Derating Curves on page 18.)											
	Frequency *		50 /60 Hz (47 to	450 Hz)										
		115 VAC input	2.8 A typ.											
nput	Current *	230 VAC input	1.6 A typ.											
iiput	Power factor													
		115 VAC input	0.50 mA	0.50 mA	0.50 mA	0.50 mA	0.40 mA	0.50 mA						
	Leakage current	230 VAC input	0.75 mA	0.75 mA	0.75 mA	0.70 mA	0.60 mA	0.70 mA						
	Inrush current *	115 VAC input	32 A typ.											
	(for a cold start at 25°)	230 VAC input	32 A typ.											
	Rated Output Curre	nt	26 A	12.5 A	10 A	6.5 A	4.3 A	3.3 A						
	Voltage adjustment	range *	-10% to 10% (v	vith V. ADJ)	1									
	Ripple & Noise	100 to 120 VAC/200 to	50 mVp-p max.	90 mVp-p max.	110 mVp-p	100 mVp-p	200 mVp-p	120 mVp-p						
	voltage *	240 VAC input		oo myp p max.	max.	max.	max.	max.						
	Input variation influ		0.5% max.											
Output	Load variation influ		1.0% max.											
	Temperature variation influence	100 to 120 VAC/200 to 240 VAC input	0.03%/°C max.											
		115 VAC input	770 ms typ.	730 ms typ.	740 ms typ.	770 ms typ.	730 ms typ.	760 ms typ.						
	Startup time *	230 VAC input	750 ms typ.	720 ms typ.	730 ms typ.	760 ms typ.	720 ms typ.	750 ms typ.						
		115 VAC input	29 ms typ.	24 ms typ.	27 ms typ.	23 ms typ.	23 ms typ.	21 ms typ.						
	Hold time *	230 VAC input	35 ms typ.	30 ms typ.	31 ms typ.	28 ms typ.	29 ms typ.	27 ms typ.						
	Overload protection		Yes, automatic		oe typ:	20 me typ.	20 1351	27 13.51						
	·		-		voltage, power s	shut off (shut off the	e input voltage and	turn on the input						
	Overvoltage protection *		Yes, 115% or higher of rated output voltage, power shut off (shut off the input voltage and turn on the input again)											
Addi-	Overheat protection		No											
tional func-	Series operation		Yes (For up to 2 Power Supplies, external diodes are required.)											
tions	Parallel operation		No (However, backup operation is possible, external diodes are required.)											
	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											
Insula-	Withstand voltage		2 kVAC for 1 min. (between all input terminals and PE terminals) current cutoff 20 mA											
tion			1 kVAC for 1 mi	n. (between all out	put terminals ar	nd PE terminals) o	urrent cutoff 20 m	1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA						
	Insulation resistance	Insulation resistance		100 M Ω min. (between all output terminals and all input terminals/PE terminals) at 500 VDC										
		· C	100 11122 111111 (2	etween all output to	emmais and an	input terminais/i	,	O VDC						
	Ambient operating		–20 to 60°C (De	erating is required a		•								
		temperature	-20 to 60°C (De (with no conden	erating is required a sation or icing)	according to the	•								
Envi-	Storage temperatur	temperature e	-20 to 60°C (De (with no conden -40 to 85°C (with	erating is required a sation or icing) th no condensation	according to the	•								
	Storage temperatur Ambient operating	temperature e humidity	-20 to 60°C (De (with no conden -40 to 85°C (with 20% to 90% (St	erating is required a sation or icing) th no condensation orage humidity: 10	according to the n or icing) % to 95%)	temperature. Ref	er to <i>Derating Cur</i>							
	Storage temperatur	temperature e humidity	-20 to 60°C (De (with no conden -40 to 85°C (with 20% to 90% (St 10 to 55 Hz, 0.3	erating is required a sation or icing) th no condensation	according to the or icing) % to 95%) ude for 2 h each	temperature. Ref	er to Derating Cur							
	Storage temperatur Ambient operating	temperature e humidity	-20 to 60°C (De (with no conden -40 to 85°C (with 20% to 90% (St 10 to 55 Hz, 0.3 10 to 500 Hz, 0.3	erating is required a sation or icing) th no condensation orage humidity: 10 175-mm half amplit	according to the n or icing) % to 95%) ude for 2 h each ude for 1 h each	temperature. Ref	er to Derating Cur							
ronment	Storage temperatur Ambient operating	temperature e humidity	-20 to 60°C (De (with no conden -40 to 85°C (with 20% to 90% (St 10 to 55 Hz, 0.3 10 to 500 Hz, 0.3	erating is required a sation or icing) th no condensation orage humidity: 10 i75-mm half amplit 26-mm half amplit as each in ±X, ±Y,	according to the n or icing) % to 95%) ude for 2 h each ude for 1 h each	temperature. Ref	er to Derating Cur							
ronment	Storage temperatur Ambient operating Vibration resistance	temperature e humidity	-20 to 60°C (De (with no conden -40 to 85°C (wi 20% to 90% (St 10 to 55 Hz, 0.3 10 to 500 Hz, 0. 150 m/s², 3 time	erating is required a sation or icing) th no condensation orage humidity: 10 i75-mm half amplit 26-mm half amplit as each in ±X, ±Y,	according to the n or icing) % to 95%) ude for 2 h each ude for 1 h each	temperature. Ref	er to Derating Cur							
Reliabil-	Storage temperatur Ambient operating I Vibration resistance Shock resistance MTBF	temperature e humidity	-20 to 60°C (De (with no conden -40 to 85°C (wi 20% to 90% (St 10 to 55 Hz, 0.3 10 to 500 Hz, 0. 150 m/s², 3 time 135,000 hrs mir 10 years min.	erating is required a sation or icing) th no condensation orage humidity: 10 i75-mm half amplit 26-mm half amplit as each in ±X, ±Y,	according to the n or icing) % to 95%) ude for 2 h each ude for 1 h each ±Z directions	temperature. Ref	er to Derating Cur							
Reliabil- ty	Storage temperatur Ambient operating Vibration resistance Shock resistance MTBF Life expectancy *	temperature e humidity	-20 to 60°C (De (with no conden -40 to 85°C (wi 20% to 90% (St 10 to 55 Hz, 0.3 10 to 500 Hz, 0. 150 m/s², 3 time 135,000 hrs mir 10 years min.	erating is required a sation or icing) th no condensation orage humidity: 10 175-mm half amplit 26-mm half amplit es each in $\pm X$, $\pm Y$, $\pm X$.	according to the n or icing) % to 95%) ude for 2 h each ude for 1 h each ±Z directions	temperature. Ref	er to Derating Cur							
Reliabil- ity Con- struc-	Storage temperatur Ambient operating I Vibration resistance Shock resistance MTBF Life expectancy * Dimensions (W×H×I	temperature e humidity	-20 to 60°C (De (with no conden -40 to 85°C (wi 20% to 90% (St 10 to 55 Hz, 0.3 10 to 500 Hz, 0. 150 m/s², 3 time 135,000 hrs mir 10 years min. Refer to <i>Dimens</i>	erating is required a sation or icing) th no condensation orage humidity: 10 175-mm half amplit 26-mm half amplit es each in $\pm X$, $\pm Y$, $\pm X$.	according to the n or icing) % to 95%) ude for 2 h each ude for 1 h each ±Z directions	temperature. Ref	er to Derating Cur							
Reliabil- ity Con- struc-	Storage temperatur Ambient operating I Vibration resistance Shock resistance MTBF Life expectancy * Dimensions (W×H×I Weight	temperature e humidity e	-20 to 60°C (De (with no conden -40 to 85°C (with no conden -40 to 85°C (with no conden -40 to 55 Hz, 0.3 10 to 500 Hz, 0.3 10 to 500 Hz, 0.3 150 m/s², 3 time 135,000 hrs mir 10 years min. Refer to <i>Dimens</i> 500 g max.	erating is required a sation or icing) th no condensation orage humidity: 10 175-mm half amplit 26-mm half amplit es each in $\pm X$, $\pm Y$, $\pm X$.	according to the n or icing) % to 95%) ude for 2 h each ude for 1 h each ±Z directions	temperature. Ref	er to Derating Cur							
Reliabil- ity Con- struc-	Storage temperatur Ambient operating I Vibration resistance Shock resistance MTBF Life expectancy * Dimensions (W×H×I Weight Cooling fan	temperature e humidity e	-20 to 60°C (De (with no conden -40 to 85°C (with no conden -40 to 85°C (with no conden -40 to 55 Hz, 0.3 10 to 550 Hz, 0.3 10 to 500 Hz, 0.3 150 m/s², 3 time 135,000 hrs min 10 years min. Refer to <i>Dimens</i> 500 g max. No	erating is required a sation or icing) th no condensation orage humidity: 10 175-mm half amplit 26-mm half amplit es each in $\pm X$, $\pm Y$, $\pm X$.	according to the nor icing) % to 95%) ude for 2 h each ude for 1 h each ±Z directions and 24.	temperature. Ref	er to Derating Cur							
Reliabil- ty Con- struc-	Storage temperatur Ambient operating I Vibration resistance Shock resistance MTBF Life expectancy * Dimensions (W×H×I Weight Cooling fan Degree of protectio Harmonic current e	temperature e humidity e	-20 to 60°C (De (with no conden -40 to 85°C (with no 550 Hz, 0.3 10 to 550 Hz, 0.3 10 to 550 Hz, 0.3 10 to 5500 Hz, 0.3	erating is required a sation or icing) th no condensation orage humidity: 10 i75-mm half amplit 26-mm half amplit as each in ±X, ±Y, in.	according to the nor icing) % to 95%) ude for 2 h each ude for 1 h each ±Z directions and 24.	temperature. Ref	er to Derating Cur							
Reliabil- ty Con-	Storage temperatur Ambient operating I Vibration resistance Shock resistance MTBF Life expectancy * Dimensions (W×H×I Weight Cooling fan Degree of protectio	temperature e humidity e	-20 to 60°C (De (with no conden -40 to 85°C (with 10 to 550 Hz, 0.3 10 to 500 Hz, 0.3 10 to 500 Hz, 0.3 150 m/s², 3 time 135,000 hrs min 10 years min. Refer to <i>Dimens</i> 500 g max. No Conforms to EN	erating is required a sation or icing) th no condensation orage humidity: 10 i75-mm half amplit 26-mm half amplit as each in ±X, ±Y, in.	according to the nor icing) % to 95%) ude for 2 h each ude for 1 h each ±Z directions and 24.	temperature. Ref	er to Derating Cur							
Reliabil- ty Con- struc-	Storage temperatur Ambient operating I Vibration resistance Shock resistance MTBF Life expectancy * Dimensions (W×H×I Weight Cooling fan Degree of protectio Harmonic current e	temperature e humidity e D) m missions Conducted Emissions	-20 to 60°C (De (with no conden -40 to 85°C (with 10 to 550 Hz, 0.3 10 to 550 Hz, 0.3 10 to 550 Hz, 0.3 150 m/s², 3 time 135,000 hrs min 10 years min. Refer to <i>Dimens</i> 500 g max. No Conforms to EN Conforms to EN	erating is required a sation or icing) th no condensation orage humidity: 10 i75-mm half amplit 26-mm half amplit as each in ±X, ±Y, in. Sions on pages 21 i61000-3-2, GB17 i61204-3 Class B,	according to the nor icing) % to 95%) ude for 2 h each ude for 1 h each ±Z directions and 24. 625.1 EN 55011 Clase EN 55011 Clase	temperature. Ref	er to Derating Cur							
Envi- ronment Reliabil- ity Con- struc- tion Stan- dards	Storage temperatur Ambient operating Vibration resistance Shock resistance MTBF Life expectancy * Dimensions (W×H×I Weight Cooling fan Degree of protectio Harmonic current e	temperature e humidity e D) m missions Conducted Emissions	-20 to 60°C (De (with no conden -40 to 85°C (with 10 to 500 Hz, 0.3 10 to 500 hz	erating is required a station or icing) th no condensation orage humidity: 10 175-mm half amplit 26-mm half amplit as each in ±X, ±Y, in. Sions on pages 21 161000-3-2, GB17 161204-3 Class B, 161204-3 Class B, 161204-3 high sevilards 162368-1 (Recognit 22.2 No62368-1 mdards 1 OVC II Pol2 104 / 2011, TR CU 0	according to the or reing) % to 95%) ude for 2 h each ude for 1 h each ±Z directions and 24. 625.1 EN 55011 Classerity levels ion) OVC II Political in the content of the	temperature. Ref	er to Derating Cur							
Reliabil- ity Con- struc- tion	Storage temperatur Ambient operating Vibration resistance Shock resistance MTBF Life expectancy * Dimensions (W×H×I Weight Cooling fan Degree of protectio Harmonic current e EMI EMS	temperature e humidity e D) m missions Conducted Emissions	-20 to 60°C (De (with no conden -40 to 85°C (with 10 to 500 Hz, 0.3 10 years min. Refer to Dimens 500 g max. No Conforms to EN CONFORMS CONFORM	erating is required a station or icing) th no condensation orage humidity: 10 175-mm half amplit 26-mm half amplit as each in ±X, ±Y, in. Sions on pages 21 161000-3-2, GB17 161204-3 Class B, 161204-3 Class B, 161204-3 high sevilards 162368-1 (Recognit 22.2 No62368-1 mdards 1 OVC II Pol2 104 / 2011, TR CU 0	according to the or reing) % to 95%) ude for 2 h each ude for 1 h each ±Z directions and 24. 625.1 EN 55011 Classerity levels ion) OVC II Political in the content of the	temperature. Ref	er to Derating Cur							

^{*} Refer to Conditions on page 12.

		Power rating	200 W						
Item		Output voltage (VDC)	5 V 12 V 24 V 36 V 48 V						
		115 VAC input	81% typ.	85% typ.	88% typ.	89% typ.	88% typ.		
Efficiency	/ *	230 VAC input	81% typ.	87% typ.	88% typ.	90% typ.	90% typ.		
	Voltage range *		Single phase 90 to 132 VAC, Single phase 180 to 264 VAC, 254 to 373 VDC Select with the switch. (The L terminal for the DC input is the positive side and safety standards do not apply.) (Derating is required according to the input voltage. Refer to <i>Derating Curves</i> on page 18.)						
	Frequency *		50 /60 Hz (47 to 4	450 Hz)					
	O	115 VAC input	4 A typ.						
Input	Current * Power factor	230 VAC input	2.3 A typ.						
	1 Ower lactor	115 VAC input	0.35 mA	0.25 mA	0.40 mA	0.20 mA	0.40 mA		
	Leakage current	230 VAC input	0.60 mA	0.50 mA	0.75 mA	0.45 mA	0.80 mA		
		115 VAC input	16 A typ.	0.00 11#1	0.70 1117	0.1011111	0.00 1111 1		
	Inrush current * (for a cold start at 25°)	230 VAC input	32 A typ.						
	Rated Output Curi	· · · · · · · · · · · · · · · · · · ·	40 A	17 A	8.8 A	5.9 A	4.43 A		
	Voltage adjustmen		-10% to 10% (wit		0.0 A	5.5 A	4.40 A		
	Ripple & Noise		-10% to 10% (WII	(III V. ADJ)					
	voltage *	100 to 120 VAC/200 to 240 VAC input	60 mVp-p max.	60 mVp-p max.	110 mVp-p max.	130 mVp-p max.	120 mVp-p max		
	Input variation infl		0.5% max.						
Output	Load variation infl		1.0% max.						
	Temperature variation influence	100 to 120 VAC/200 to 240 VAC input	0.03%/°C max.						
	Startup time *	115 VAC input	620 ms typ.	630 ms typ.	580 ms typ.	630 ms typ.	620 ms typ.		
		230 VAC input	600 ms typ.	610 ms typ.	550 ms typ.	600 ms typ.	600 ms typ.		
	Hold time ≭	115 VAC input	32 ms typ.	30 ms typ.	38 ms typ.	30 ms typ.	31 ms typ.		
	Tiola tille 4	230 VAC input	37 ms typ.	35 ms typ.	45 ms typ.	37 ms typ.	37 ms typ.		
	Overload protection	on	Yes, automatic re	eset					
Addi- tional	Overvoltage prote	ction *	Yes, 115% or higher of rated output voltage, power shut off (shut off the input voltage and turn on the input aga						
	Overheat protection		No						
	Series operation		Yes (For up to 2 Power Supplies, external diodes are required.)						
unc-	Parallel operation		No (However, backup operation is possible, external diodes are required.)						
ions	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						
nsula-	Withstand voltage		2 kVAC for 1 min. (between all input terminals and PE terminals) current cutoff 20 mA						
ion			1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA						
	Insulation resistar	nce	100 M Ω min. (between all output terminals and all input terminals/PE terminals) at 500 VDC						
	Ambient operating	j temperature	-20 to 50°C (Derating is required according to the temperature. Refer to <i>Derating Curves</i> on page 17.) (wit no condensation or icing)						
	Storage temperatu	ire	-40 to 85°C (with no condensation or icing)						
Envi- onment	Ambient operating) humidity	20% to 90% (Storage humidity: 10% to 95%)						
Omnent	Vibration resistan	се	10 to 55 Hz, 0.375-mm half amplitude for 2 h each in X, Y, and Z directions 10 to 500 Hz, 0.26-mm half amplitude for 1 h each in X, Y, and Z directions						
	Shock resistance		150 m/s ² , 3 times	each in ±X, ±Y, ±Z dir	ections				
Reliabil-	MTBF		135,000 hrs min.						
ty	Life expectancy *		10 years min.						
	Dimensions (W×H		Refer to Dimension	ons on pages 22 and 2	5.				
Con-	Weight		700 g max.						
truc- ion	Cooling fan		No						
	Degree of protecti	on							
	Harmonic current								
		Conducted Emissions	Conforms to EN 6	61204-3 Class A, EN 5	5011 Class A				
	ЕМІ	Radiated Emis-	Conforms to EN 6	61204-3 Class A, EN 5	5011 Class A				
	EMS		Conforms to EN 6	61204-3 high severity le	evels				
Stan- dards	Safety Standards		Approved Standa UL: cURus UL 62 CSA: cURus C22 Conformed Stand EN: EN 62368-1	ords 2368-1 (Recognition) C .2 No62368-1 dards OVC II Pol2 / 2011, TR CU 020 / 2	OVC II Pol2				
	Marine Standards		No						

^{*} Refer to Conditions on page 12.

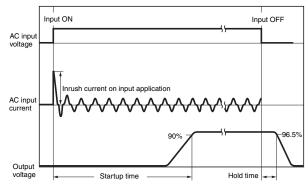
la ar		Power rating			350 W				
ltem		Output voltage (VDC)	5 V 12 V 24 V 36 V 48 V						
		115 VAC input	77% typ.	83% typ.	86% typ.	87% typ.	87% typ.		
Efficiency	y *	230 VAC input	78% typ.	85% typ.	88% typ.	88% typ.	88% typ.		
	Voltage range *	, 	Single phase 90 to 132 VAC, Single phase 180 to 264 VAC, 254 to 373 VDC Select with the switch. (The L terminal for the DC input is the positive side and safety standards do not apply.) (Derating is required according to the input voltage. Refer to <i>Derating Curves</i> on page 18.)						
	Frequency *		50 /60 Hz (47 to	450 Hz)					
	Command de	115 VAC input	6.4 A typ.						
nput	Current *	230 VAC input	3.5 A typ.						
	Power factor								
	Laskana aumuant	115 VAC input	0.40 mA	0.40 mA	0.40 mA	0.40 mA	0.40 mA		
	Leakage current	230 VAC input	0.75 mA	0.80 mA	0.75 mA	0.80 mA	0.80 mA		
	Inrush current *	115 VAC input	16 A typ.	•			•		
	(for a cold start at 25°)	230 VAC input	32 A typ.						
	Rated Output Curre	nt	60 A	29 A	14.6 A	9.7 A	7.32 A		
	Voltage adjustment	range *	-10% to 10% (wi	th V. ADJ)	-	*	<u>-</u> !		
	Ripple & Noise voltage *	100 to 120 VAC/200 to 240 VAC input	110 mVp-p max.	130 mVp-p max.	120 mVp-p max.	180 mVp-p max.	180 mVp-p max		
	Input variation influ	ence *	0.5% max.						
Output	Load variation influ	ence *	2.0% max.	1.0% max.					
Juipui	Temperature variation influence	100 to 120 VAC/200 to 240 VAC input	0.03%/°C max.						
	Startup time *	115 VAC input	610 ms typ.	620 ms typ.	580 ms typ.	610 ms typ.	610 ms typ.		
	Startup time *	230 VAC input	570 ms typ.	590 ms typ.	560 ms typ.	590 ms typ.	590 ms typ.		
	Hold time ≭	115 VAC input	25 ms typ.	18 ms typ.	17 ms typ.	19 ms typ.	19 ms typ.		
	Tiola tille *	230 VAC input	31 ms typ.	25 ms typ.	23 ms typ.	25 ms typ.	24 ms typ.		
	Overload protection	1	Yes, automatic re	eset					
Addi- tional func-	Overvoltage protect	tion *	Yes, 115% 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) (Overheat protection when the cooling fan is in an abnormal condition)						
	Series operation		Yes (For up to 2 Power Supplies, external diodes are required.)						
ions	Parallel operation		No (However, backup operation is possible, external diodes are required.)						
	Remote sensing		No						
	Remote control		No						
	Output indicator		Yes (LED: Green)						
nsula-	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						
	Inquistion registers	<u> </u>	1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA						
	Ambient operating		100 MΩ min. (between all output terminals and all input terminals/PE terminals) at 500 VDC -20 to 60°C (Derating is required according to the temperature. Refer to <i>Derating Curves</i> on page 17.) (with no condensation or icing)						
	Storage temperatur	e	-40 to 85°C (with no condensation or icing)						
Envi-	Ambient operating		20% to 90% (Storage humidity: 10% to 95%)						
ronment			10 to 55 Hz, 0.375-mm half amplitude for 2 h each in X, Y, and Z directions						
	Vibration resistance	9		6-mm half amplitude f					
	Shock resistance		150 m/s², 3 times each in ±X, ±Y, ±Z directions						
	Shock resistance		135,000 hrs min.						
H	Shock resistance MTBF		135,000 hrs min.						
H			135,000 hrs min. 10 years min.						
ity	MTBF	D)	10 years min.	ions on pages 22 and 2	25.				
ty Con-	MTBF Life expectancy *	D)	10 years min.		25.				
Con-	MTBF Life expectancy * Dimensions (W×H×I	D)	10 years min. Refer to <i>Dimensi</i> 800 g max.						
Con-	MTBF Life expectancy * Dimensions (W×H×I Weight Cooling fan Degree of protectio	n	10 years min. Refer to <i>Dimensi</i> 800 g max.	ions on pages 22 and 2					
Con-	MTBF Life expectancy * Dimensions (W×H×I Weight Cooling fan	n missions	10 years min. Refer to <i>Dimensi</i> 800 g max. Yes (ON/OFF co	ions on pages 22 and introl according to inter	rnal temperature)				
Con-	MTBF Life expectancy * Dimensions (W×H×I Weight Cooling fan Degree of protectio Harmonic current e	n	10 years min. Refer to <i>Dimensi</i> 800 g max. Yes (ON/OFF co	ions on pages 22 and 2	rnal temperature)				
Con-	MTBF Life expectancy * Dimensions (W×H×I Weight Cooling fan Degree of protectio	n missions	10 years min. Refer to <i>Dimensi</i> 800 g max. Yes (ON/OFF co Conforms to EN	ions on pages 22 and introl according to inter	rnal temperature) 55011 Class A				
Con-	MTBF Life expectancy * Dimensions (W×H×I Weight Cooling fan Degree of protectio Harmonic current e	n missions Conducted Emissions	10 years min. Refer to <i>Dimensi</i> 800 g max. Yes (ON/OFF co Conforms to EN C	ions on pages 22 and 2 ntrol according to inter 61204-3 Class A, EN 8	55011 Class A				
Reliabil- ity Con- struc- tion Stan- dards	MTBF Life expectancy * Dimensions (W×H×I Weight Cooling fan Degree of protectio Harmonic current e	n missions Conducted Emissions	10 years min. Refer to Dimensi 800 g max. Yes (ON/OFF co Conforms to EN EN EN 62368-1	ntrol according to interest of the following services of the following	55011 Class A 55011 Class A levels				
Con- struc- cion	MTBF Life expectancy * Dimensions (W×H×I Weight Cooling fan Degree of protectio Harmonic current e EMI EMS	n missions Conducted Emissions	10 years min. Refer to Dimensi 800 g max. Yes (ON/OFF co Conforms to EN Conforms to EN Conforms to EN CONFORMS UL: cURus UL 6 CSA: cURus C2C Conformed Standa CSA: cURus C2C CONFORMS C2S CONFORMS C2S CONFORMS C2S CONF	ntrol according to interest of the following services of the following	55011 Class A 55011 Class A levels				

^{*} Refer to Conditions on page 12.

Conditions

Efficiency		The value is given for the rated output voltage and rated output current.			
	Voltage range	Although some inverters give 50/60 Hz as the output frequency, do not use an inverter output as the power			
Input	Frequency	source for the Power Supply. Doing so may result in smoking or burning due to internal temperature increases in the Power Supply. If you connect a UPS to the input, do not connect one with a square wave output.			
	Current	The value is given for the rated output voltage and rated output current.			
	Inrush current (for a cold start at 25°C)	The value is given for a cold start at 25°C. Refer to following for details.			
	Voltage adjustment range	If the output voltage adjuster (V. ADJ) is turned, the voltage will increase by 10% or more over the voltage adjustment range. When adjusting the output voltage, confirm the actual output voltage from the Power Supply and be sure that load is not damaged.			
	Ripple & Noise voltage	The value is given for the rated output voltage and rated output current. The value is for an ambient operating temperature of 25°C.			
Output	Input variation influence	This is the maximum variation in the output voltage when the input voltage is gradually changed within the allowable input voltage range at the rated output voltage and rated output current.			
	Load 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 given for the rated output voltage and rated output current. The value is given for a cold start at 25°C. Refer to following for details.			
	Hold time	The value is given for the rated output voltage and rated output current. Refer to following for details.			
Additional functions	Overvoltage protection	Refer to Overvoltage Protection on page 19 for information on resetting the input power.			
Reliability	Life expectancy	Refer to Recommended Replacement Periods and Periodic Replacement for Preventive Maintenance on page 39 for details.			

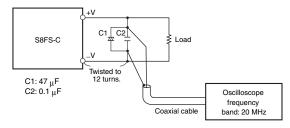
Inrush Current, Startup Time, and Output Hold Time



Note: Twice the normal input current will flow for a redundant system. 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

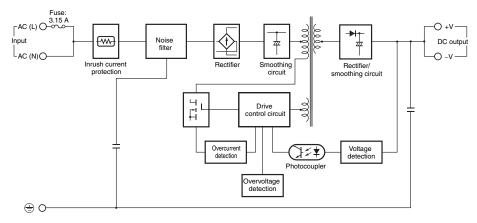
The specified standard for the ripple voltage noise was measured with the following measurement circuit.

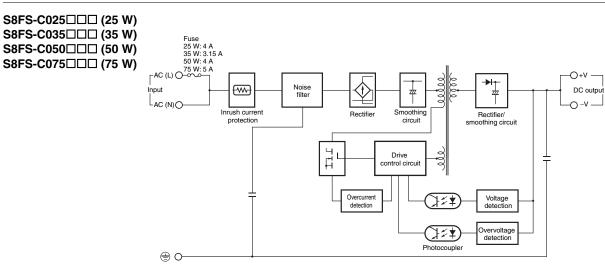


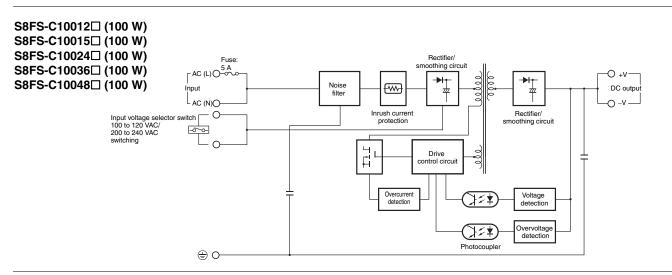
Connections

Block Diagrams

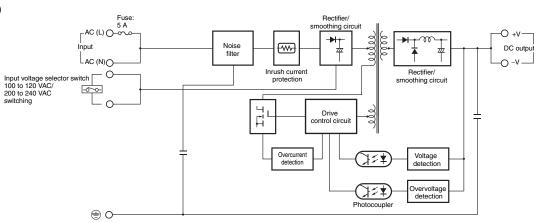
S8FS-C015□□□ (15 W)



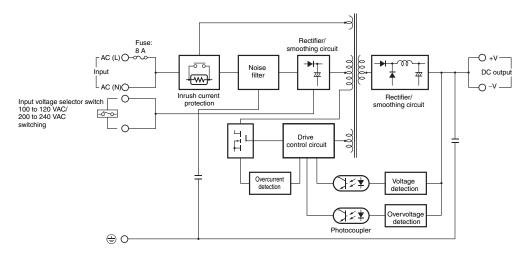




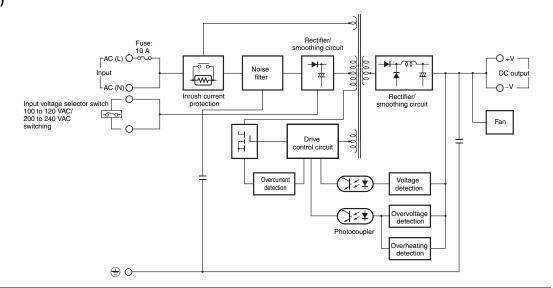
S8FS-C10005□ (100 W) S8FS-C150□□□ (150 W)



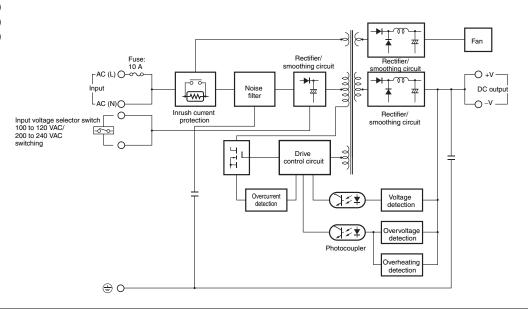
S8FS-C200□□□ (200 W)



S8FS-C35024□ (350 W)



S8FS-C35005□ (350 W) S8FS-C35012□ (350 W) S8FS-C35036□ (350 W) S8FS-C35048□ (350 W)



Construction and Nomenclature

Nomenclature

25-W, 35-W, 50-W, 15-W Models 100-W and 150-W Models 200-W and 350-W Models and 75-W Models OMBON SEFS POWER SUPPLY 4 4 أعاماماماماماها (5) (5) 2 (3) (3) S8FS-C025□□ S8FS-C050□□ S8FS-C100□□ S8FS-C200□□ S8FS-C035□□ S8FS-C075□□ S8FS-C150□□ S8FS-C350□□ RON SOFS POWER SUPPLY (6) -(5) (5) 2 2 3 ① S8FS-C025□□□ S8FS-C015□□□ S8FS-C050□□□ S8FS-C100□□□ S8FS-C200□□□ S8FS-C035□□□ S8FS-C075□□□ S8FS-C150□□□ S8FS-C350□□□ CHECK INPUT VOLTAGE SELECTOR SWITCH BEFORE POWER ON INPUT:100-120VAC (輸入) 200-240VAC 6

No.	Name	Function
1	Input terminals (L), (N)	Connect the input lines to these terminals. *1
2	Protective Earth Terminal (PE)	Connect the ground line to this terminal. *2
3	DC output terminals (-V), (+V)	Connect the load lines to these terminals.
4	Output indicator (DC ON: Green)	Lit while the DC output is ON.
5	Output voltage adjuster (V. ADJ)	Use to adjust the output voltage.
6	Input voltage selector switch	Used to switch the input voltage. *3, *4

^{*1.} The fuse is located on the (L) side. It is not user replaceable. For a DC power 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.

^{*3.} The 100-W, 150-W, 200-W, and 350-W models only.

^{*4.} Refer to Input Voltage Selector Switch in Safety Precautions on page 36.

Engineering Data

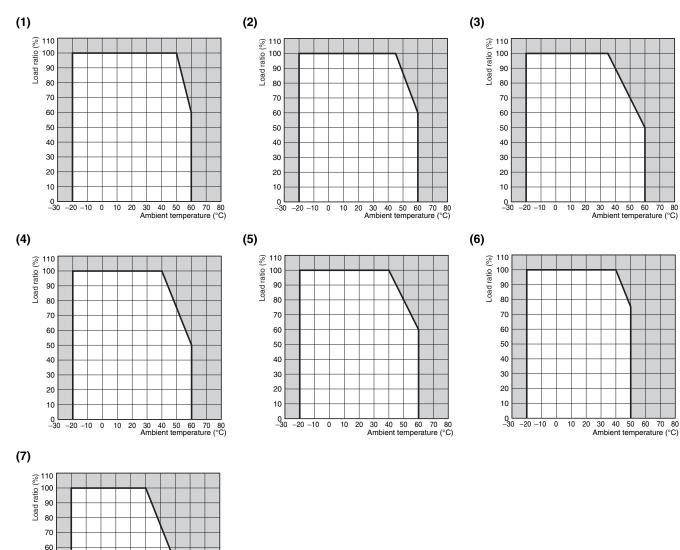
Derating Curves

-20 -10 0

10 20

Derating for Ambient Temperatures

Power rating Output voltage	15 W	25 W	35 W	50 W	75 W	100 W	150 W	200 W	350 W
5 V		(2)			(3)	(4)	(5)	(7)	
12 V		(=)			(0)	(' '	(0)	(6)	(1)
15 V	(1)	(1)	(1)	(1)	(1)	(2)	(1)		
24 V		(' /			(-)				
36 V						()	()	(6)	(1)
48 V				(1)	(1)			(-)	(.)

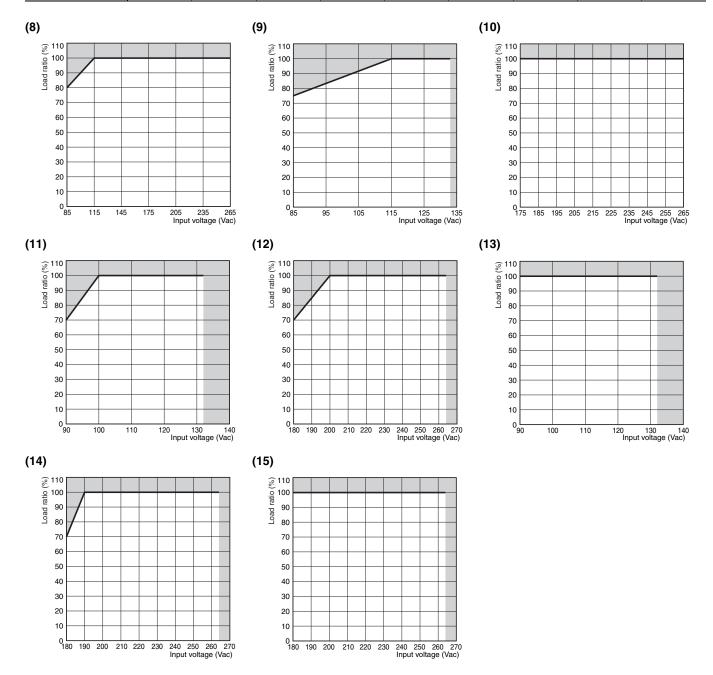


Note: The internal parts may occasionally deteriorate or be damaged. Use the standard mounting method only. Do not use the Power Supply in the area outside the derating curve.

S8FS-C

Derating for Input Voltages

Power rating Output voltage	15 W	25 W	35 W	50 W	75 W	100 W	150 W	200 W	350 W
5 V								(11) (14)	(11) (15)
12 V	(8)	(8)	(8)	(8)	(8)	(9) (10)	(11) (12)	(11)(14)	(11) (10)
15 V	(0)								
24 V									
36 V								(13) (15)	(11) (15)
48 V				(8)	(8)				

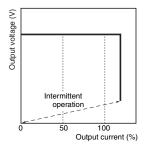


Note: The internal parts may occasionally deteriorate or be damaged. Use the standard mounting method only. Do not use the Power Supply in the area outside the derating curve.

Overload Protection

The load and the Power Supply are automatically protected from short-circuit currents and overcurrent damage by this function. Overload protection is activated if the output current rises above 105% of the rated current.

When the output current returns within the rated range, the overload protection is automatically cleared.



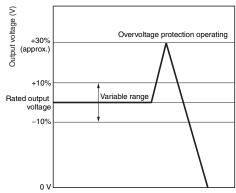
The values shown in the above diagrams are for reference only.

Note: 1. If the Power Supply has been short-circuited or supplied with an overcurrent longer than 10 seconds, the internal parts of the Power Supply may occasionally deteriorate or be damaged.

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. When an excessive voltage that is 115% of the rated voltage or more is output, the output voltage is shut OFF, preventing damage to the load due to overvoltage. Reset the input power by turning it OFF for at least three minutes and then turning it back ON again.



The values shown in the above diagrams are for reference only.

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

Overheat Protection (S8FS-C350□□□ Only)

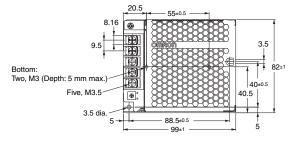
If the internal temperature rises excessively as a result of fan failure or any other reason, the overheat protection circuit will operate to protect internal elements. Reset the input power by turning it OFF for at least three minutes and then turning it back ON again.

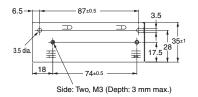
Dimensions (Unit: mm)

Power Supplies Models with Terminal Block Facing Upward

S8FS-C025□□ (25 W)





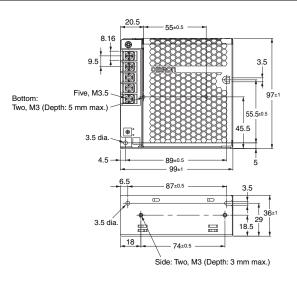


Panel mounting hole dimensions

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

S8FS-C035□□ (35 W)



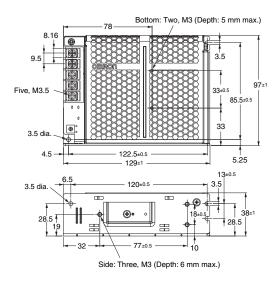


Panel mounting hole dimensions

	Using the mounting holes in the Power Supply	Using the screw holes in the Power Supply
Bottom mounting	Two, M3 55,5±0.5	Two, 3.5 dia.
Side mounting	Two, M3	Two, 3.5 dia.

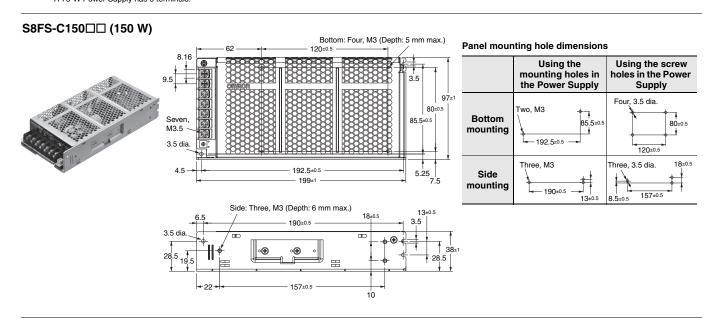
S8FS-C050□□ (50 W)



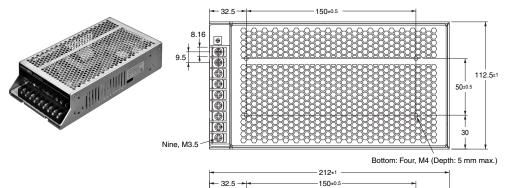


	Using the mounting holes in the Power Supply	Using the screw holes in the Power Supply
Bottom mounting	Two, M3 85.5±0.5	Two, 3.5 dia.
Side mounting	Three, M3	Three, 3.5 dia. 18±0.5

S8FS-C075□□ (75 W) S8FS-C100□□ (100 W) Panel mounting hole dimensions 8.16 Using the mounting holes in the Power Using the screw holes in the Supply **Power Supply** Bottom: Two, M3 (Depth: 5 mm max.) Two, 3.5 dia. 84.5±0. **Bottom** 84.5±0.5 mounting 78±0.5 32 -- 152.5±0.5 Three, M3 18±0.5 Side 152.5±0.5 mounting 159±1 - 150±0.5 117±0.5 Side: Three, M3 (Depth: 6 mm max.) 13±0.5 150±0.5 3.5 dia The figure shows a 100-W Power Supply. A 75-W Power Supply has 5 terminals.



S8FS-C200□□ (200 W)

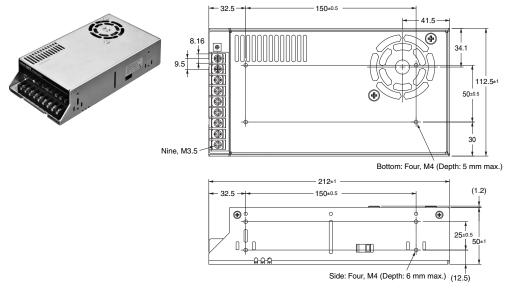


(

Panel mounting hole dimensions

	• •
	Using the screw holes in the Power Supply
Bottom mounting	Four, 4.5 dia. 50±0.5 150±0.5
Side mounting	Four, 4.5 dia. 25±0.5

S8FS-C350□□ (350 W)



Panel mounting hole dimensions

•

Side: Four, M4 (Depth: 6 mm max.)

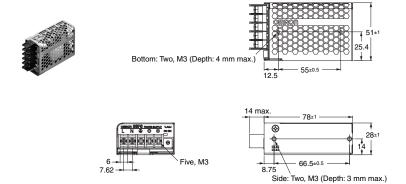
25±0.5

(12.5)

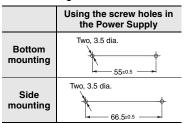
	Using the screw holes in the Power Supply
Bottom mounting	Four, 4.5 dia.
Side mounting	Four, 4.5 dia. 25±0.5

Models with Terminal Block Facing Forward

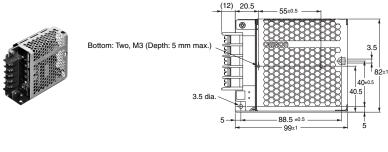
S8FS-C015□□J (15 W)



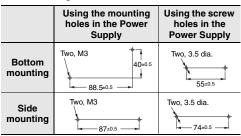
Panel mounting hole dimensions

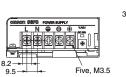


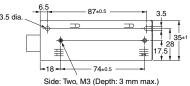
S8FS-C025□□J (25 W)



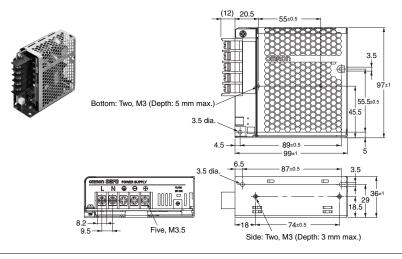
Panel mounting hole dimensions





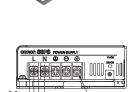


S8FS-C035□□J (35 W)

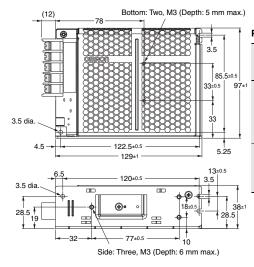


	Using the mounting holes in the Power Supply	Using the screw holes in the Power Supply
Bottom mounting	Two, M3 55.5±0.5	Two, 3.5 dia.
Side mounting	Two, M3	Two, 3.5 dia.



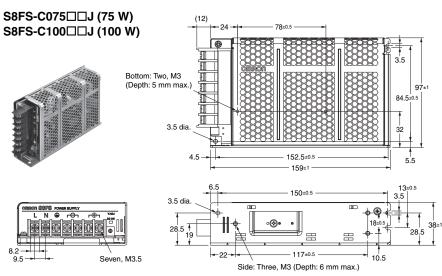


Five, M3.5



Panel mounting hole dimensions

	Using the mounting holes in the Power Supply	Using the screw holes in the Power Supply
Bottom mounting	Two, M3 85.5±0.5	Two, 3.5 dia.
Side mounting	Three, M3	Three, 3.5 dia. 18±0.5

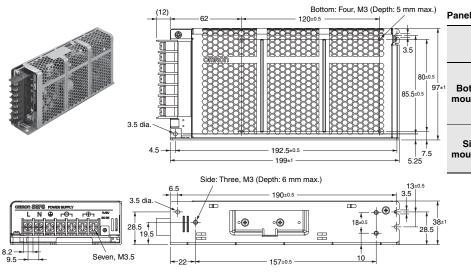


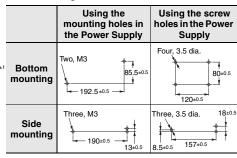
Panel mounting hole dimensions

	Using the mounting holes in the Power Supply	Using the screw holes in the Power Supply	
Bottom mounting	Two, M3 84.5±0.5	Two, 3.5 dia.	
Side mounting	Three, M3	Three, 3.5 dia. 18±0.5 9.5±0.5 117±0.5	

Note: The figure shows a 100-W Power Supply. A 75-W Power Supply has 5 terminals.

S8FS-C150□□J (150 W)

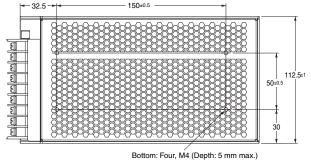


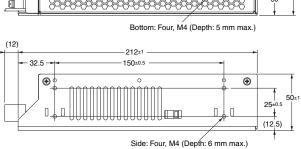


S8FS-C200□□J (200 W)



Nine, M3.5



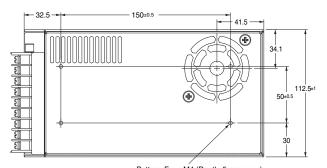


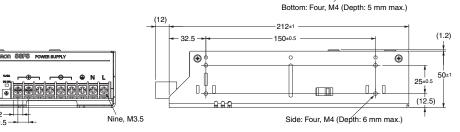
Panel mounting hole dimensions

and mounting note annensions		
	Using the screw holes in the Power Supply	
Bottom mounting	Four, 4.5 dia.	
Side mounting	Four, 4.5 dia. 25±0.5	

S8FS-C350□□J (350 W)







	Using the screw holes in the Power Supply	
Bottom mounting	Four, 4.5 dia.	
Side mounting	Four, 4.5 dia. 25±0.5	

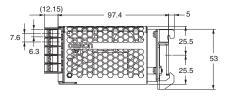
S8FS-C

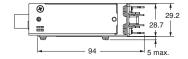
Models with DIN rail

S8FS-C015□□D (15 W)



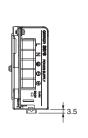


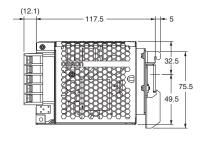


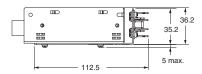


S8FS-C025□□D (25 W)



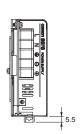


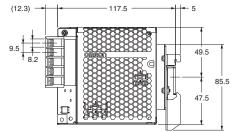


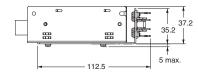


S8FS-C035□□D (35 W)

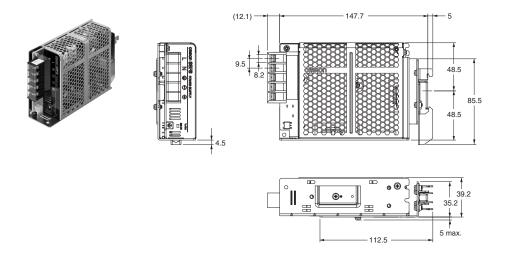




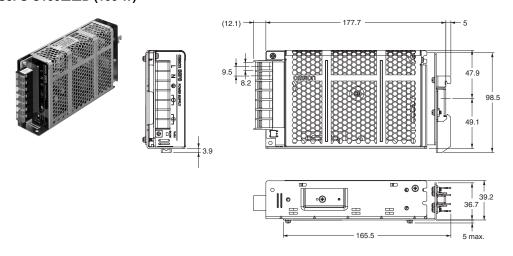




S8FS-C050□□D (50 W)

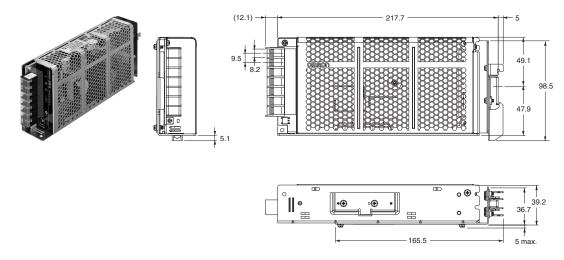


S8FS-C075□□D (75 W) S8FS-C100□□D (100 W)

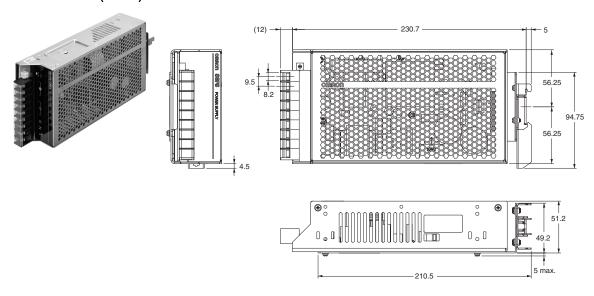


Note: The figure shows a 100-W Power Supply. A 75-W Power Supply has 5 terminals.

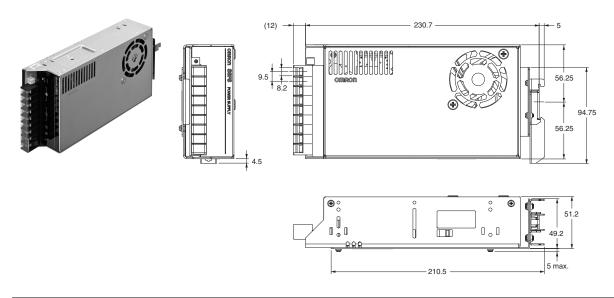
S8FS-C150□□D (150 W)



S8FS-C200□□D (200 W)



S8FS-C350□□D (350 W)

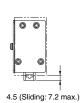


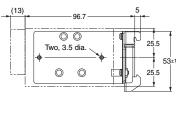
Mounting Brackets (Order Separately)

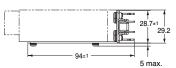
Power rating	Mounting direction	Model
15 W		S82Y-FSC015DIN
25 W		S82Y-FSC025DIN
35 W		S82Y-FSC050DIN
50 W		362 1-F3C030DIN
75 W	DIN Rail	
100 W		S82Y-FSC150DIN
150 W		
200 W		S82Y-FSC350DIN
350 W		S821-FSC350DIN
15 W		S82Y-FSC015DIN-S
25 W		S82Y-FSC025DIN-S
35 W		S82Y-FSC035DIN-S
50 W	Bottom-mounting to DIN Rail	S82Y-FSC050DIN-S
75 W		S82Y-FSC100DIN-S
100 W		302 1 -F3C 100DIN-S
150 W		S82Y-FSC150DIN-S
200 W	Bottom-mounting with L-brackets	COOV ESCOPOR (4 brooksts)
350 W	Bottom-mounting with L-brackets	S82Y-FSC350B (4 brackets)

S82Y-FSC015DIN

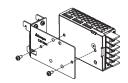






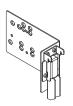


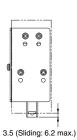
Mounting Method

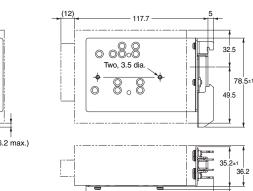


Accessories (2 locations)
Be sure to use the accessory screws.
Mounting screw tightening torque: 0.48 to
0.59 N·m for M3 screws

S82Y-FSC025DIN

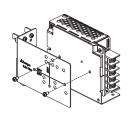






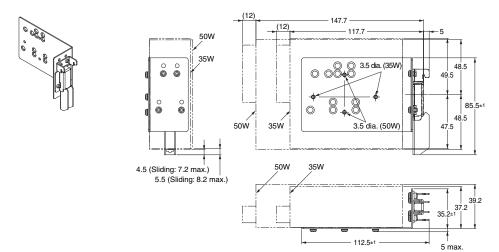
- 112.5±1

Mounting Method

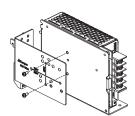


Accessories (2 locations)
Be sure to use the accessory screws.
Mounting screw tightening torque: 0.48 to
0.59 N·m for M3 screws

S82Y-FSC050DIN

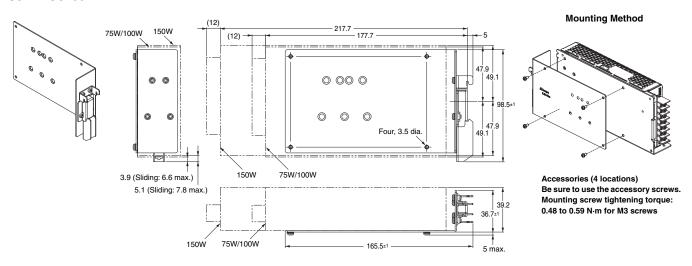


Mounting Method

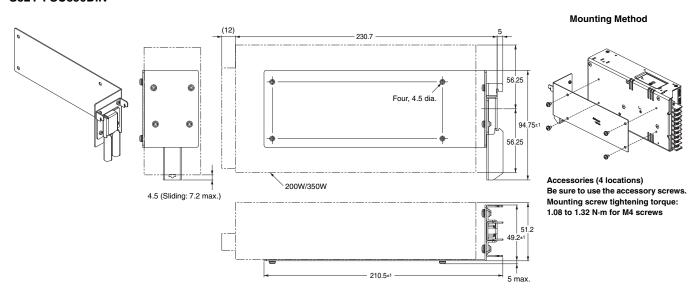


Accessories (2 locations)
Be sure to use the accessory screws.
Mounting screw tightening torque:
0.48 to 0.59 N·m for M3 screws

S82Y-FSC150DIN



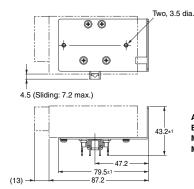
S82Y-FSC350DIN



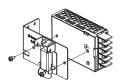
S82Y-FSC015DIN-S







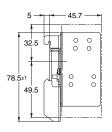
Mounting Method

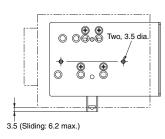


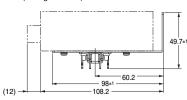
Accessories (2 locations)
Be sure to use the accessory screws. Mounting screw tightening torque: 0.48 to 0.59 N·m for M3 screws

S82Y-FSC025DIN-S

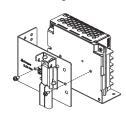








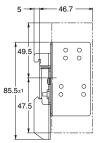
Mounting Method

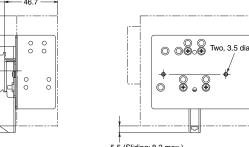


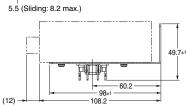
Accessories (2 locations) Be sure to use the accessory screws. Mounting screw tightening torque: 0.48 to 0.59 N·m for M3 screws

S82Y-FSC035DIN-S

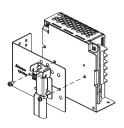








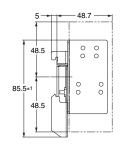
Mounting Method

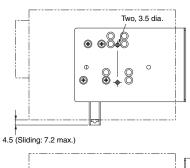


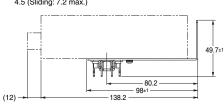
Accessories (2 locations) Be sure to use the accessory screws. Mounting screw tightening torque: 0.48 to 0.59 N·m for M3 screws

S82Y-FSC050DIN-S

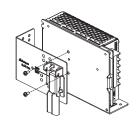






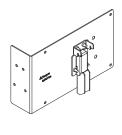


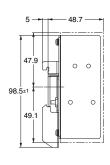
Mounting Method

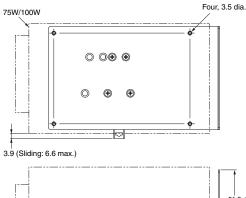


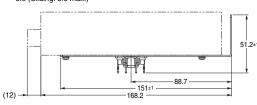
Accessories (2 locations) Be sure to use the accessory screws. Mounting screw tightening torque: 0.48 to 0.59 N·m for M3 screws

S82Y-FSC100DIN-S

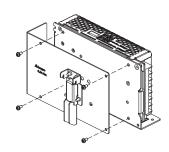






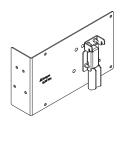


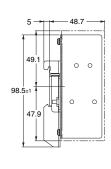
Mounting Method

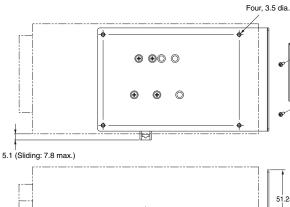


Accessories (4 locations) Be sure to use the accessory screws. Mounting screw tightening torque: 0.48 to 0.59 N·m for M3 screws

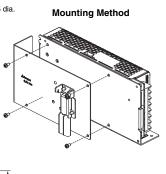
S82Y-FSC150DIN-S







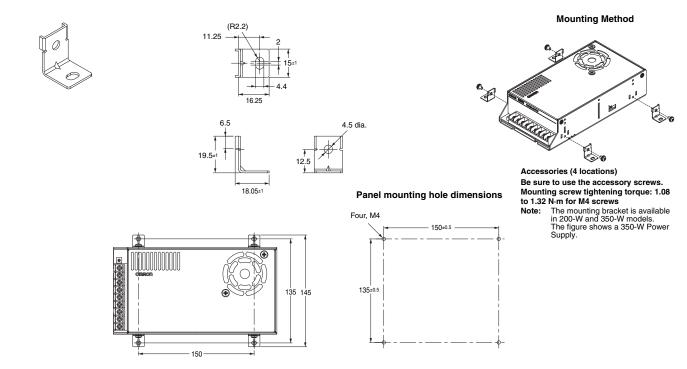
-208.2 -



Accessories (4 locations) Be sure to use the accessory screws.

51.2±1 Mounting screw tightening torque: 0.48 to 0.59 N·m for M3 screws -108.7 - 151±1

S82Y-FSC350B (Four Brackets)



For Users of S8JC DIN Rail-mounting Power Supplies

If you are using a DIN Rail-mounting S8JC-series Power Supply, you can use a DIN Rail-mounting S8FS-C-series Power Supply or replace it with an S8FS-C-series Power Supply with a Forward-facing Terminal Block and a DIN Rail Mounting Bracket.

Table of Corresponding S8JC Power Supplies and S8FS-C□J Power Supplies with DIN Rail Mounting Brackets

Power rating	S8JC-Z *2	S8JC-ZS		S8FS-C Power Supply		DIN Rail-mounting Bracket *1
	S8JC-Z01505CD	S8JC-ZS01505CD-AC2	\Rightarrow	S8FS-C01505J		
15 W	S8JC-Z01512CD	S8JC-ZS01512CD-AC2	\Rightarrow	S8FS-C01512J	+	S82Y-FSC015DIN
	S8JC-Z01524CD	S8JC-ZS01524CD-AC2	\Rightarrow	S8FS-C01524J	-	
	S8JC-Z03505CD	S8JC-ZS03505CD-AC2	\Rightarrow	S8FS-C03505J		
35 W	S8JC-Z03512CD	S8JC-ZS03512CD-AC2	\Rightarrow	S8FS-C03512J	+	S82Y-FSC050DIN
	S8JC-Z03524CD	S8JC-ZS03524CD-AC2	\Rightarrow	S8FS-C03524J		
	S8JC-Z05005CD	S8JC-ZS05005CD-AC2	\Rightarrow	S8FS-C05005J		
50 W	S8JC-Z05012CD	S8JC-ZS05012CD-AC2	\Rightarrow	S8FS-C05012J		S82Y-FSC050DIN
30 W	S8JC-Z05024CD	S8JC-ZS05024CD-AC2	\Rightarrow	S8FS-C05024J	+	3021-1 30030DIN
	S8JC-Z05048CD		\Rightarrow	S8FS-C05048J		
	S8JC-Z10005CD	S8JC-ZS10005CD-AC2	\Rightarrow	S8FS-C10005J		
100 W	S8JC-Z10012CD	S8JC-ZS10012CD-AC2	\Rightarrow	S8FS-C10012J		S82Y-FSC150DIN
100 W	S8JC-Z10024CD	S8JC-ZS10024CD-AC2	\Rightarrow	S8FS-C10024J	+	3021-F3C130DIN
	S8JC-Z10048CD		\Rightarrow	S8FS-C10048J		
	S8JC-Z15005CD	S8JC-ZS15005CD-AC2	\Rightarrow	S8FS-C15005J		
150 W	S8JC-Z15012CD	S8JC-ZS15012CD-AC2	\Rightarrow	S8FS-C15012J		S82Y-FSC150DIN
150 W	S8JC-Z15024CD	S8JC-ZS15024CD-AC2	\Rightarrow	S8FS-C15024J	+	3021-F3C130DIN
	S8JC-Z15048CD		\Rightarrow	S8FS-C15048J		
	S8JC-Z35005CD	S8JC-ZS35005CD-AC2	\Rightarrow	S8FS-C35005J		
350 W	S8JC-Z35012CD	S8JC-ZS35012CD-AC2	\Rightarrow	S8FS-C35012J	+	S82Y-FSC350DIN
	S8JC-Z35024CD	S8JC-ZS35024CD-AC2	\Rightarrow	S8FS-C35024J		

^{*1.} To mount an S8FS-series Power Supply that is not a DIN Rail-mounting model to a DIN Rail, purchase a DIN Rail-mounting Bracket separately from the Power Supply.

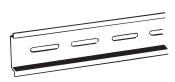
^{*2.} Consult with your OMRON representative if you use a 15-W or 35-W S8JC-Z Power Supply with a 48-V output voltage.

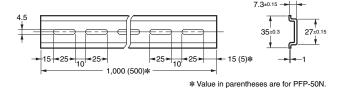
DIN Rail (Order Separately)

Note: All units are in millimeters unless otherwise indicated.

Mounting Rail

(Material: Aluminum)

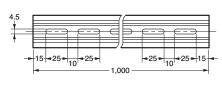


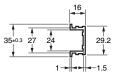




Mounting Rail (Material: Aluminum)



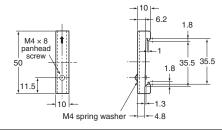






End Plate







- Note: 1. If there is a possibility that the Power Supply will be subject to vibration or shock, use a steel DIN Rail. Otherwise, metallic filings may result from aluminum abrasion.
 - 2. If there is a possibility of the Power Supply sliding sideways, place an End Plate (PFP-M) on each end of the Power Supply.

Terminal Cover (Order Separately)

Terminal block direction	Power rating	Applicable models	Terminal Cover model number	
	25-W	S8FS-C025□□		
	35-W	S8FS-C035	S82Y-FSC-C5	
	50-W	S8FS-C050	3021-F30-05	
Models with terminal block	75-W	S8FS-C075		
facing upward	100-W	S8FS-C100	S82Y-FSC-C7	
	150-W	S8FS-C150□□	3021-130-07	
	200-W	S8FS-C200□□	S82Y-FSC-C9	
	350-W	S8FS-C350□□		
	15-W	S8FS-C015□□J/D	S82Y-FSC-C5MF	
	25-W	S8FS-C025□□J/D		
	35-W	S8FS-C035□□J/D	S82Y-FSC-C5F	
	50-W	S8FS-C050□□J/D		
Models with terminal block facing forward	75-W	S8FS-C075□□J/D		
	100-W	S8FS-C100□□J/D	S82Y-FSC-C7F	
	150-W	S8FS-C150□□J/D	3021-730-077	
	200-W	S8FS-C200□□J/D	S82Y-FSC-C9F	
	350-W	S8FS-C350□□J/D	3021-130-091	

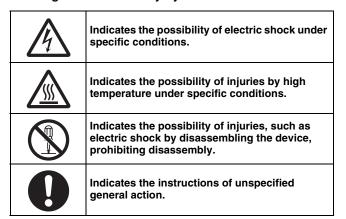
Safety Precautions

Refer to Safety Precautions for All Power Supplies.

Warning Indications

CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or in property damage.
Precautions for Safe Use	Supplementary comments on what to do or avoid doing, to use the product safely.
Precautions for Correct Use	Supplementary comments on what to do or avoid doing, to prevent failure to operate, malfunction or undesirable effect on product performance.

Meaning of Product Safety Symbols



⚠ CAUTION

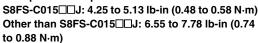
Minor electric shock, fire, or Product failure may occasionally occur. Do not disassemble, modify, or repair the Product or touch the interior of the Product.



Minor burns may occasionally occur. Do not touch the Product while power is being supplied or immediately after power is turned OFF.



Fire may occasionally occur. Tighten terminal screws to the specified torque.





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



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



Precautions for Safe Use

Ambient Operating and Storage Environments

- Store the Power Supply at a temperature of –40 to 85°C and a humidity of 10% to 95%.
- The internal parts may occasionally deteriorate or be damaged.
 Use the standard mounting method only. Do not use the Power Supply outside the derating range.
- Use the Power Supply at a humidity of 20% to 90%.
- Do not use the Power Supply in locations subject to direct sunlight.
- Do not use the Power Supply in locations where liquids, foreign matter, or corrosive gases may enter the interior of the Power Supplies.

Installation Environment

- Do not use the Power Supply in locations subject to shocks or vibrations. Install the Power Supply away from contactors and other parts and devices that are sources of vibration.
- Install the Power Supply well away from any sources of strong, high-frequency noise and surge.

Input Voltage Selector Switch

For 100-W or higher models, the input voltage is factory-set to 200 to 240 V.

To use an input voltage of 100 to 120 VAC, change the input voltage selector switch to the 100 to 120 VAC setting. To use a DC input, set the input voltage selector switch to the 200 to 240 VAC setting.

 Minor electric shock may occasionally occur. Do not operate the input voltage selector switch while power is being supplied.

Mounting

- Take adequate measures to ensure proper heat dissipation to increase the long-term reliability of the Power Supply.
- For models other than the S8FS-C350□□□, be sure to allow convection in the atmosphere around devices when mounting. Do not use the Power Supply in locations where the ambient temperature exceeds the range of the derating curve.
- For the S8FS-C350 —: Forced air cooling with a fan is used. Do not allow the ventilation holes to be blocked. The effectiveness of cooling would be reduced.
- The internal parts may occasionally deteriorate or be damaged.
 Use the standard mounting method only. Do not use the Power Supply outside the derating range.
- If you mount the Power Supply by using the screw holes provided on the chassis, the screws should preferably not penetrate beyond the exterior by more than 3 mm inside the Power Supply. If you use screws that are longer than this, make sure that they do not penetrate beyond the depth given in the dimensional diagram. Use the following tightening torque.

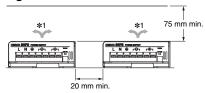
0.48 to 0.59 N·m for M3 screws

- 1.08 to 1.32 N·m for M4 screws
- When cutting out holes for mounting, make sure that cuttings do not enter the interior of the Power Supplies.
- The internal parts may occasionally deteriorate or be damaged due to adverse heat radiation. Do not loosen the screws on the Power Supplies.

Mounting

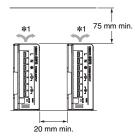
The standard mounting pattern is shown below.

Mounting Pattern A



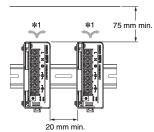
The above figure shows a model with the terminal block facing upward.

Mounting Pattern B



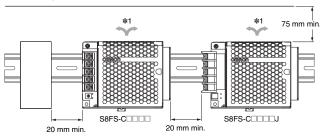
The above figure shows a model with the terminal block facing upward.

Mounting Pattern C *2



The above figure shows a model with the terminal block facing forward.

Mounting Pattern D *2

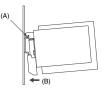


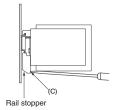
To mount the Power Supply to a DIN Rail, hook portion (A) of the Power Supply onto the DIN Rail and press the Power Supply in direction (B) until you hear it lock into place. Make sure that the catch on the Mounting Bracket is engaged with the DIN Rail.

To dismount the Power Supply, pull down portion (C) with a flat-blade screwdriver and pull out the Power Supply.

*1. Air flow

*2. For mounting patterns C and D, a separately sold Mounting Bracket is used to mount the Power Supplies to DIN Rail. Refer to Mounting Brackets (Order Separately) on page 29 for the separately sold Mounting Brackets.





Wiring

- Connect the ground completely.
 A protective earthing terminal stipulated in safety standards is used. Electric shock or malfunction may occur if the ground is not connected completely.
- Minor fire may possibly occur. Ensure that input and output terminals are wired correctly.
- Do not apply more than 75 N force to the terminal block when tightening it.
- Be sure to remove the sheet covering the Power Supply for machining before power-ON so that it does not interfere with heat dissipation.
- Use the following material for the wires to be connected to the S8FS-C to prevent smoking or ignition caused by abnormal loads.

Recommended Wire Gauges

Terminals	Model	Recommended Wire Gauges
	S8FS-C015□□□	AWG14 to 22
Input	S8FS-C025□□□ to S8FS-C100□□□	AWG12 to 20
iliput	S8FS-C150□□□ or S8FS-C200□□□	AWG12 to 16
	S8FS-C350□□□	AWG12
	S8FS-C015□□□	AWG14 to 18
	S8FS-C02512 to S8FS-C02524□	
	S8FS-C03515 to S8FS-C03524□	AWG12 to 20
	S8FS-C05024 to S8FS-C05048□	
	S8FS-C02505 or S8FS-C03512□	
	S8FS-C05012 to S8FS-C05015□	
	S8FS-C07515 to S8FS-C07548□	AWG12 to 16
Output	S8FS-C10024 to S8FS-C10048□	
	S8FS-C15036 to S8FS-C15048□	
	S8FS-C03505 or S8FS-C05005□	
	S8FS-C07505 to S8FS-C07512□	
	S8FS-C10005 to S8FS-C10015□	AWG12
	S8FS-C15005 to S8FS-C15024□	
	S8FS-C200□□□ or S8FS-C350□□□	
Protective	S8FS-C015□□□	AWG14
earth terminal	S8FS-C025□□□ to S8FS-C350□□□	AWG12 to 14

Note: The current capacity for the output terminals on the S8FS-C025□□□ to S8FS-C350□□□ is 25 A for each terminal. Make sure to use multiple terminals together if the current flow is higher than the current capacity for each terminal.

Overload Protection

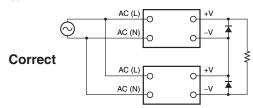
- If the Power Supply has been short-circuited or supplied with an overcurrent longer than 10 seconds, the internal parts of the Power Supply may occasionally deteriorate or be damaged.
- Internal parts may possibly deteriorate or be damaged if the Power Supply is used for applications with frequent inrush current or overloading at the load end. Do not use the Power Supply for such applications.

Output Voltage Adjuster (V. ADJ)

- The output voltage adjuster (V. ADJ) may possibly be damaged if it is turned with unnecessary force. Do not turn the adjuster with excessive force.
- After completing output voltage adjustment, be sure that the output capacity or output current does not exceed the rated output capacity or rated output current.

Series Operation

Two Power Supplies can be connected in series.



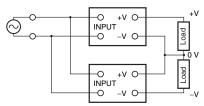
Note: 1. If the load is short-circuited, a reverse voltage will be generated inside the Power Supply. If this occurs the Power Supply may possibly deteriorate or be damaged. Always connect a diode as shown in the figure. Select a diode having the following ratings.

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

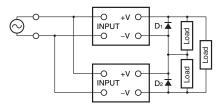
 Although Power Supplies having different specifications can be connected in series, the current flowing through the load must not exceed the smaller rated output current.

Making Positive/Negative Outputs

• The outputs are floating outputs (i.e., the primary circuits and secondary circuits are separated). You can therefore make positive and negative outputs by using two Power Supplies. You can make positive and negative outputs with any of the models. If positive and negative outputs are used, connect Power Supplies of the same model as shown in the following figure. (Combinations with different output capacities or output voltages can be made. However, use the lower of the two maximum rated output currents as the current to the loads.)



 Depending on the model, internal circuits may be damaged due to startup failure when the power is turned ON if loads such as a servomotor or operational amplifier operate in series. Therefore, connect bypass diodes (D₁, D₂) as shown in the following figure.

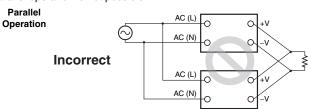


• Select a diode having the following ratings.

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

Parallel Operation

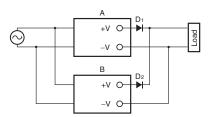
Parallel operation is not possible.



Backup Operation

Backup operation is possible if you use two Power Supplies of the same model.

Connect diodes as shown in the following figure for backup operation.



Select a diode having the following ratings.

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

- The output voltages of Power Supplies A and B output must be set higher only by a value equivalent to the drop in forward voltages (V_F) of diodes D₁ and D₂.
- Power loss occurs equivalent to the Power Supply output current (lout) times the diode forward voltage (VF), and heat is generated.
 The diode must be cooled to ensure that its temperature is kept at or below the value indicated in the diode catalog.
- There will be a power loss caused by load power and diodes. Be sure that this total power loss does not exceed the rated output power (rated output voltage times rated output current) of each Power Supply.

In Case There Is No Output Voltage

There is a possibility that functions such as overcurrent protection, over-voltage protection or overheating protection are functioning. The internal protection circuit may operate if a large amount of surge voltage such as a lightening surge occurs while turning ON the Power Supply.

In case there is no output voltage, please check the following points before contacting us:

- Checking overload protection status:
 Check whether the load is in overload status or is short-circuited.
 Remove wires to load when checking.
- Checking overvoltage or internal protection:
 Turn the power supply OFF once, and leave it OFF for at least 3 minutes. Then turn it ON again to see if this clears the condition.
- Check overheating protection (350-W model):
 Switch off the input power supply and switch back on after allowing sufficient time for cooling.

Charging Batteries

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

Period and Terms of Warranty

Warranty Period

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

Terms of Warranty

The warranty is valid only for the following operating conditions.

- 1. Average ambient operating temperature of the Power Supply: 40°C max.
- 2. Average load rate: 80% max.
- 3. Mounting method: Standard mounting
- * The maximum ratings must be within the derating curve.

If the Power Supply fails for reasons attributable to OMRON within the above warranty period, OMRON will repair or replace the faulty part of the Power Supply at the place of purchase or the place where the Power Supply delivered without charge. This warranty does not cover the following types of failures.

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

Recommended Replacement Periods and Periodic Replacement for Preventive Maintenance

The recommended replacement period for preventive maintenance is greatly influenced by the application environment of the Power Supply. As a guideline, the recommended replacement period is 7 to 10 years.* To prevent failures and accidents that can be caused by using a Power Supply beyond its service life, we recommend that you replace the Power Supply as early as possible within the recommended replacement period. However, bear in mind that the recommended replacement period is for reference only and does not guarantee the life of the Power Supply.

Many electronic components are used in the Power Supply and the Power Supply depends on the correct operation of these components to achieve the original Power Supply functions and performance. However, the influence of the ambient temperature on aluminum electrolytic capacitors is large, and the service life is reduced by half for each 10°C rise in temperature (Arrhenius law). When the capacity reduction life of the electrolytic capacitor is reached, Power Supply failures or accidents may occur. We therefore recommend that you replace the Power Supply periodically to minimize Power Supply failures and accidents in advance.

*The recommended replacement period applies under the following conditions: rated input voltage, load rate of 50% max., ambient temperature of 40°C max., and the standard mounting method. (The fan is excluded for models with fans.)

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

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Terms and Conditions Agreement

Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranties.

- (a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.
- (b) Limitations. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE.

Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or otherwise of any intellectual property right. (c) Buyer Remedy. Omron's sole obligation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Companies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty.

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Limitation on Liability; Etc.

OMRON COMPANIES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY.

Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.

Suitability of Use.

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

Performance Data.

Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

Change in Specifications.

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions.

Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

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