

With Cover/DIN Rail Mounting

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

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

Specifications

Item		Power rating Output voltage	15 W			
			5 V	12 V	15 V	24 V
Efficiency *		100 VAC input	80% typ.	84% typ.	84% typ.	85% typ.
		200 VAC input	80% typ.	84% typ.	84% typ.	86% typ.
		230 VAC input	80% typ.	84% typ.	84% typ.	86% typ.
Input	Voltage range *		Single phase, 85 to 264 VAC, 120 to 370 VDC			
	Frequency *		50/60 Hz (47 to 450 Hz)			
	Current *	100 VAC input	0.32 A typ.			
		200 VAC input	0.2 A typ.			
	Power factor		---			
	Leakage current *	100 VAC input	0.5 mA max.			
		200 VAC input	1 mA max.			
	Inrush current * (for a cold start at 25°C)	100 VAC input	14 A typ.			
		200 VAC input	28 A typ.			
Output	Rated Output Current		3 A	1.3 A	1 A	0.65 A
	Voltage adjustment range *		-10% to 15% (with V.ADJ)			
	Ripple & Noise voltage *	100 to 240 VAC input	40 mVp-p max.	40 mVp-p max.	40 mVp-p max.	60 mVp-p max.
	Input variation influence *		0.5% max.			
	Load variation influence *		1.0% max.			
	Temperature variation influence	100 to 240 VAC input	0.05%/°C max.			
	Startup time *	100 VAC input	1,000 ms max.			
		200 VAC input	1,000 ms max.			
	Hold time *	100 VAC input	15 ms typ.	14 ms typ.	15 ms typ.	15 ms typ.
		200 VAC input	75 ms typ.	70 ms typ.	75 ms typ.	70 ms typ.
Additional functions	Overload protection		Yes, automatic reset			
	Overvoltage protection *		Yes, 120% or higher of rated output voltage, power shut off (shut off the input voltage and turn on the input again)			
	Overheat protection		No			
	Series operation		Yes (For up to two Power Supplies, external diodes are required.)			
	Parallel operation		No (However, backup operation is possible, external diodes are required.)			
	Remote sensing		No			
	Remote control		No			
	Output indicator		Yes (LED: Green)			
Insulation	Withstand voltage		3 kVAC for 1 min. (between all input terminals and output terminals) current cutoff 20 mA 2 kVAC for 1 min. (between all input terminals and PE terminals) current cutoff 20 mA 1 kVAC for 1 min. (between all output terminals and PE terminals) current cutoff 20 mA			
	Insulation resistance		100 MΩ min. (between all output terminals and all input terminals/PE terminals) at 500 VDC			
Environment	Ambient operating temperature		-20 to 70°C (Derating is required according to the temperature.) (with no condensation or icing)			
	Storage temperature		-25 to 75°C (with no condensation or icing)			
	Ambient operating humidity		90% max. (Storage humidity: 90% max.)			
	Vibration resistance		10 to 55 Hz, 4.5 G max., 0.375-mm half amplitude for 2 h each in X, Y, and Z directions			
Reliability	Shock resistance		150 m/s ² , 3 times each in ±X, ±Y, ±Z directions			
	MTBF		135,000 hrs min.			
	Life expectancy *		10 years min.			
Construction	Dimensions (W×H×D)		Refer to <i>Dimensions</i> on page 18.			
	Weight		250 g			
	Cooling fan		No			
	Degree of protection		---			
Standards	Harmonic current emissions		Conforms to EN 61000-3-2			
	EMI *	Conducted Emissions	Conforms to EN 61204-3 Class B, EN 55011 Class B			
		Radiated Emissions	Conforms to EN 61204-3 Class B, EN 55011 Class B			
	EMS		Conforms to EN 61204-3 high severity levels			
	Safety Standards		UL 508 (Listing, excluding models with connector option) UL 60950-1 (Recognition, OVCII [≤ 3,000 m], Pol2) CSA C22.2 No.107.1 (excluding models with connector option) CSA C22.2 No.60950-1 (excluding models with connector option) EN 50178 (OVCI [≤ 2,000 m], OVCI [≥ 2,000 m and ≤ 3,000 m], Pol2) EN 60950-1 (OVCI [≤ 3,000 m], Pol2) Conforms to EN/IEC 61558-2-16.			
	Marine Standards		No			
	SEMI		Conforms to F47-0706 (200 VAC input)			

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