Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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Specification and Standards

Model SWF240P-24/-36/-48

Parameter			SWF240P-24	SWF240P-36	SWF240P-48V
Input Condition	Rated Input Voltage		100 to 240VAC		
	Allowable Input Voltage		85 to 264VAC		
	Input Current (typ) 1		2.9A (VIN = 100V)		
	Rated Frequency		50 / 60 Hz		
	Allowable Frequency Range		47 to 63 Hz		
	Power Factor (typ) 1		0.9		
	Efficiency (typ) 1		88% (VIN = 100V) / 92% (VIN = 240V)		
	Inrush Current (typ) 2		15A (VIN = 100V) / 30A (VIN = 200V)		
	Leakage Current (max) 1		0.75 mA (VIN = 240V)		
Output Conditions 3	Rated Output Voltage		24V	36V	48V
	Output Voltage Variation 9		21.6 to 26.4V	32.4 to 39.6V	43.2 to 52.8V
	Rated Output Current		10.0A	6.7A	5.0A
	Maximum Peak Current 8		20.0A	13.4A	10.0A
	Allowable Output Current Range		0 to 20.0A	0 to 13.4A	0 to 10.0A
	Rated Output Power		240W		
	Constant Voltage Accuracy 5		±3%		
	Ripple Noise 1,4		300mVP-P	300mVP-P	400mVP-P
	Output Holding Time (min) 1		20ms		
	Start-up Time (typ) 1		500ms		
Additional Functions	Over current Protection		Detection above 101% of maximum peak current (automatic recovery)		
	Over voltage Protection6		Detection above 115% of maximum output voltage (output cut-off)		
	Over temperature Protection		Not Provided		
	Remote Sensing		Not Provided		
	Operations Display		Not Provided		
Environmental Conditions	Operating Temperature Range		–10°C to 70°C		
	Storage Temperature Range		–25°C to 85°C		
	Operating Humidity Range		30% to 90%		
	Storage Humidity Range		20% to 90%		
	Cooling Requirements		Natural air cooling		
	Vibration Resistance	Vibration Frequency	10 to 55 Hz		
		Sweep Time	3 minutes		
		Acceleration	19.6 m / s² (2 G)		
		Vibration Detection	x, y, z		
		Vibration Time	One hour in each of three directions		
	Shock Resistance		98 m / s² (10 G); conduct this test on an oak board with a flat surface and a thickness of 10 mm or more; lift one edge of the bottom side of the unit 50 mm and drop it on the board; drop 3 times on each of the 4 edges		
	Installation Conditions		Derating may be required due to mounting orientation		

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Model SWF240P-24/-36/-48

Parameter			Value
Insulation [7]	Insulation Withstand Voltage	Input-Output	3000 VAC one minute (leakage current 15 mA or less)
		Input-FG	2000 VAC one minute (leakage current 15 mA or less)
		Output-FG	500 VAC one minute (leakage current 15 mA or less)
	Insulation Resistance	Input-Output	100 MΩ (measured with 500 VDC)
		Input-FG	
		Output-FG	
Applicable Standards	Safety Standards		UL60950-1, C-UL(CSA60950-1)
			SEMKO (EN60950-1) certified
			Designed to meet Electrical Appliance and Safety law
	Conducted Emissions		Designed to meet FCC Class B
			Designed to meet EN55022
			Designed to meet VCCI Class B
	EMC		Designated to meet harmonic current IEC61000-3-2

1. Specified under rated input/output conditions at an ambient temperature of 25°C.
2. More current above noted values may flow at restart (ambient temperature of 25°C).
3. Output conditions are measured at a point 15 cm from the output connector, with a 63V / 100µF electrolytic capacitor and a 0.1µF film capacitor connected to that point.
4. Ripple noise is measured with a 100 MHz oscilloscope using a 1:1 probe.
5. The constant voltage accuracy is measured with a static input variation, a static load variation, a time drift, and an ambient temperature variation.
6. Reset is performed by reapplying input voltage.
7. Insulation conditions are specified at normal temperature and humidity.
8. Start-up is to be performed at less than the rated output current.
The maximum Peak current shall be within 10s, duty cycle 35% or less.
9. In the case where output voltage is variable, set a voltage such that Output Voltage Variation, Rated Output Current, and Rated Output Power are not exceeded.