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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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Specifications and Standards

Model SWG030 Series

	Parameter		Model			
			SWG030-05	SWG030-12	SWG030-24	
	Rated Input Voltage		100 to 240 VAC (140 to 340 VDC)			
Input Conditions	Allowable Input Voltage		85 to 264 VAC (110 to 370 VDC)			
	Input Current (typ)		.7 A (100 VAC) / 0.4 A (200 VAC)			
	Rated Frequency		50 / 60 Hz			
	Allowable Frequency Range		47 to 440 Hz or DC			
	Efficiency (typ)	AC 100 V	74%	76%	78%	
	Efficiency (typ)	AC 200 V	77%	78%	81%	
	Inrush Current (typ) ^{1,2}		15 A (V _{IN} = 100 V) / 30 A (V _{IN} = 200 V) I _O = 100% at Cold Start			
	Leakage Current (max)		0.30 mA (V _{IN} = 100 V) / 0.65 mA (V _{IN} = 240 V) 60 Hz I _O = 100% per measuring method of IEC60950-1 and PSE			
	Rated Output Voltage		5 V	12 V	24 V	
	Rated Output Current		6 A	2.5 A	1.3 A	
	Static Input Variation		20 mV max	48 mV max	96 mV max	
	Static Load Variation		40 mV max	100 mV max	150 mV max	
	Ripple ³	0° to 50° C	80 mVp-pmax	120 mVp-pmax	120 mVp-pmax	
		-10° to 0° C	140 mVp-pmax	160 mVp-pmax	160 mVp-pmax	
	Ripple Noise ³	0° to 50° C	120 mVp-pmax	150 mVp-pmax	150 mVp-pmax	
Output Conditions		-10° to 0° C	160 mVp-pmax	180 mVp-pmax	180 mVp-pmax	
Culput Conditions	Ambient Temperature Variation	0° to 50° C	50 mV max	120 mV max	240 mV max	
		-10° to 0° C	60 mV max	150 mV max	290 mV max	
	Time Course Drift ⁴		20 mV max	48 mV max	96 mV max	
	Startup Time ¹		200ms typ (V _{IN} = 100 V I _O = 100%) 700ms if the interval before reapply AC is less than 1 min.			
	Output Holding Time ¹		20 ms typ (V _{IN} = 100 V I _O = 100%)			
	Voltage Variation Range ⁹		4.50 to 5.50 V	10.0 to 13.2 V	19.2 to 27.0 V	
	Voltage Set Point		5.00 to 5.15 V	12.00 to 12.48 V	24.00 to 24.96 V	
Additional Functions	Overcurrent Protection		Detection above 105% of rated current (automatic recovery)			
	Overvoltage Protection ⁵		5.75 to 7.00 V	15.0 to 18.0 V	30.0 to 37.0 V	
	Operations Display		LED Display: Green			
Environmental Conditions	Operating Temperature Range		–10°C to 71°C (with derating)			
	Storage Temperature Range		–20°C to 75°C			
	Operating Humidity Range		20% to 90% RH (no condensation)			
	Storage Humidity Range		20% to 90% RH (no condensation)			
	Cooling Requirements		Natural air cooling			
	Vibration Frequency		10 to 55 Hz			
	Sweep Tir	ime	3 minutes			
	Vibration Resistance	tion	19.6 m/s² (2 G)			
		Direction	x, y, z			
	Vibration Time		One hour in each of three directions			
	Shock Resistance		196.1m/s ² (20G) 11 ms One each of three directions x, y, z			
	Installation Conditions		Derating may be required due to mounting orientation			

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Model SWG030 Series

Parameter			Model			
			SWG030-05	SWG030-12	SWG030-24	
Insulation ⁷	Insulation Withstand Voltage	Input-Output	3000 VAC one minute (leakage current 10 mA or less)			
		Input-FG	2000 VAC one minute (leakage current 10 mA or less)			
		Output-FG	500 VAC one minute (leakage current 25 mA or less)			
	Insulation Resistance	Input-Output				
		Input-FG	50 M Ω (measured with 500 VDC Megger)			
		Output-FG				
	Input/Output Type		Terminal Stand			
	Dimensions		31 mm (W) X 78 mm (H) X 103 mm (D) (without terminal stand)			
	Weight		270g maximum (without cover)			
	Safety Standards		UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178, PSE			
	EMI Safety		Designed to meet FCC Class B, VCCI Class B, CISPR22 Class B, EN55011 Class B, EN55022 Class B			
	Harmonic Current		Designed to meet IEC61000-3-2 (no power factor correction circuit)			
Others			Designed to meet EN61000-4-2 (for electrostatic discharge)			
Others			Designed to meet EN61000-4-3 (for radiated, radio-frequency, electromagnetic field)			
			Designed to meet EN61000-4-4 (for transient burst)			
	Flectromagn	etic Susceptibility	Designed to meet EN61000-4-5 (for lightning surge)			
	Licotroniugh	end eudoepholinty	Designed to meet EN61000-4-6 (for conductive radio frequency electromagnetic field)			
			Designed to meet EN61000-4-8 (for power supply frequency electromagnetic field immunity)			
			Designed to meet EN61000-4-11 (for voltage dip/variation)			
	Environmental Response		Designed to meet RoHS directive			
	Remote On/Off		N/A			
Options	Connector		JST			
	Cover ⁸		Yes			

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. Ripple noise is measured with a 100 MHz oscilloscope using a 1:1 probe.

4. Time-course drift is measured between 30 minutes to 8 hours after applying input voltage at rated input/output at an ambient temperature 25°C.

5. Reset is performed by reapplying input voltage.

6. Output derating may be required.

7. Insulation conditions are specified at normal temperature and humidity.

8. Derating may be required for the power supply with cover.

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.