



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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Model SWG050 Series

Parameter		Model			
		SWG050-05	SWG050-12	SWG050-24	
Input Conditions	Rated Input Voltage	100 to 240 VAC (140 to 340 VDC)			
	Allowable Input Voltage	85 to 264 VAC (120 to 370 VDC)			
	Input Current (typ)	.74 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	80%	80%	82%
		AC 200 V	82%	82%	84%
	Power Factor (typ)	0.99 A (100 VAC) / 0.93 A (200 VAC)			
	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)	0.40 mA (V _{IN} = 100 V) / 0.75 mA (V _{IN} = 240 V) 60 Hz I _O = 100% per measuring method of IEC60950-1 and PSE				
Output Conditions	Rated Output Voltage	5 V	12 V	24 V	
	Rated Output Current	10 A	4.3 A	2.2 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
		-10° to 0° C	160 mVp-pmax	180 mVp-pmax	180 mVp-pmax
	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	350ms typ (V _{IN} = 100 V I _O = 100%)			
	Output Holding Time ¹	20 ms typ (V _{IN} = 100 V I _O = 100%)			
Voltage Variation Range ⁹	4.00 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 Resistance	Vibration Frequency	10 to 55 Hz		
		Sweep Time	3 minutes		
		Acceleration	19.6 m/s ² (2 G)		
		Vibration 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 SWG050 Series

Parameter			Model		
			SWG050-05	SWG050-12	SWG050-24
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 100 mA or less)		
	Insulation Resistance	Input-Output	50 MΩ (measured with 500 VDC Megger)		
		Input-FG			
		Output-FG			
Others	Input/Output Type		Terminal Stand		
	Dimensions		31 mm (W) X 82 mm (H) X 120 mm (D) (without terminal stand)		
	Weight		280g 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		
	Electromagnetic Susceptibility		Designed to meet EN61000-4-2 (for electrostatic discharge)		
			Designed to meet EN61000-4-3 (for radiated, radio-frequency, electromagnetic field)		
			Designed to meet EN61000-4-4 (for transient burst)		
			Designed to meet EN61000-4-5 (for lightning surge)		
			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)					
Environmental Response		Designed to meet EN61000-4-11 (for voltage dip/variation)			
Options	Remote On/Off		Yes		
	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 20 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.