

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 SWG100 Series

				Model			
	Parameter			SWG100-05	SWG100-12	SWG100-24	
	Rated Input Voltage			100 to 240 VAC (140 to 340 VDC)			
Input Conditions	Allowable Input Voltage			85 to 264 VAC (120 to 370 VDC)			
	Input Current (typ)			1.3 A (100 VAC) / 0.7 A (200 VAC)			
	Rated Frequency			50 / 60 Hz			
	Allowable Frequency Range			47 to 63 Hz			
	⊏ffi a i a va a v v / du vu	`	AC 100 V	82%	81%	84%	
	Efficiency (typ	0)	AC 200 V	84%	83%	86%	
	Power Factor (typ)			0.99 A (100 VAC) / 0.93 A (200 VAC)			
	Inrush Current (typ) ^{1,2}			20 A (V _{IN} = 100 V) / 40 A (V _{IN} = 200 V) I _O = 100% at Cold Start			
	Leakage Current (max)			0.40 mA (V $_{\rm IN}$ = 100 V) / 0.75 mA (V $_{\rm IN}$ = 240 V) 60 Hz I $_{\rm O}$ = 100% per measuring method of IEC60950-1 and PSE			
	Rated Output Voltage			5 V	12 V	24 V	
	Rated Output Current			20 A	8.5 A	4.5 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	
	Ambient Temper	erature	0° to 50° C	50 mV max	120 mV max	240 mV max	
	Variation		-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			350 ms typ ($V_{IN} = 100 \text{ V } I_{O} = 100\%$)			
	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	
	Overcurrent Protection			Detection above 105% of rated current (automatic recovery)			
Additional Functions	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			
	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			
Environmental	Vibration F		requency	10 to 55 Hz			
Conditions	Vibration Resistance	Sweep Time		3 minutes			
		Acceleration		19.6 m/s² (2 G)			
		Vibration Direction		x, y, z			
		Vibration ⁻	Гіте	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 SWG100 Series

Parameter			Model			
			SWG100-05	SWG100-12	SWG100-24	
Insulation ⁷	Insulation	Input-Output	3000 VAC one minute (leakage current 10 mA or less)			
	Withstand	Input-FG	2000 VAC one minute (leakage current 10 mA or less)			
	Voltage	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				
	Input/Output Type		Terminal Stand			
	Dimensions		32 mm (W) X 93 mm (H) X 147 mm (D) (without terminal stand)			
	Weight		440g maximum (without cover)			
	Safety Stand	ards	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 Cu	rrent	Designed to meet IEC61000-3-2			
Othoro			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)			
	Lioutioniagni	one caccepusinty	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		Yes			
Options	Connector		JST (escept 5 V output)			
	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.