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%	
	Efficiency (typ)	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			
	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	
Output Conditions		-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			
	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 Frequency		10 to 55 Hz			
Conditions	Vibration Sweep T	me	3 minutes			
	Resistance Accelerate	ion	19.6 m/s² (2 G)			
	Vibration	Direction	x, y, z			
	Vibration Time		One hour in each of three directions			
	Shock Resistance		196.1m/s² (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

	Davamata	_	Model			
Parameter			SWG050-05	SWG050-12	SWG050-24	
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	$50~\text{M}\Omega$ (measured with 500 VDC Megger)			
		Input-FG				
		Output-FG				
	Input/Output	Туре	Terminal Stand			
	Dimensions		31 mm (W) X 82 mm (H) X 120 mm (D) (without terminal stand)			
	Weight		280g 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 Current		Designed to meet IEC61000-3-2			
O41			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)			
	Liconomagn	cuo cuocopuomity	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)			
	Environment	al Response	Designed to meet RoHS directive			
	Remote On/Off		Yes			
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 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.