

CSH050 Standard Specifications

Item		Capacity	50W			
		Model Name	CSH050-05	CSH050-12	CSH050-15	CSH050-24
Input	Rated Input Voltage		AC100V/AC120V			
	Input Voltage Range		AC85~132V			
	Frequency Range		47 to 440Hz (rated frequency: 50/60Hz)			
	Input Current	Rated input/output conditions	1.0A(typ)			
	Inrush Current (see Note 1)	Rated input/output conditions	30A (max.) at cold start			
	Efficiency (typ)	Rated input/output conditions	81%	86%	87%	90%
Output (see Note3)	Rated Output Voltage		5V	12V	15V	24V
	Output Voltage Variation		Rated output voltage \pm 10%			
	Rated Output Current		10A	4.2A	3.4A	2.1A
	Output Current Range		0~100%			
	Rated Output Power		50W	50.4W	51W	50.4W
	Ripple Noise (mVp-p) (see Note 2)		80	100	100	100
	Constant Voltage Accuracy	Static Input Range	\pm 3%			
		Static Load Range				
		Time Drift				
		Ambient Temperature Range				
Others	Output Holdup Time		16ms(min)			
	Startup Time		400ms(typ)			
	Leakage Current		0.5mA			
	Switching method, transformer frequency		SMZ method, approx. 70KHz			
Additional Functions	Over Current Protection		Detection above 105% of rated current (output cutoff)			
	Over Voltage Protection		Detection above 115% of rated voltage (output cutoff)			
	Remote Sensing		Not provided			
	Remote On/Off Control		Not provided			
	Display		Not provided			
Environmental Conditions	Operating Temperature Range (see Note 4)		-10~+60°C			
	Storage Temperature Range		-25~+85°C			
	Operating Humidity Range		30% to 90% (no condensation)			
	Storage Humidity Range		30% to 90% (no condensation)			
Insulation	Insulation Withstand Voltage (at normal temperature and humidity)	Between Input and Output, Between Input and Frame	2,000V AC for 1 minute (leakage current 15mA)			
		Between Output and Frame	500V AC for 1 minute (leakage current 15mA)			

	Insulation Resistance (at normal temperature and humidity)	and Output, Between Input and Frame, Between Output and Frame	100MΩ (measured with 500V DC Megger)
Structure	Vibration Resistance		10 to 55Hz, 2G, 1 hour, (vibration in X, Y, Z directions, for 3 minutes)
	Cooling Requirements		Natural air cooling
	External Appearance		Single printed circuit board
	External Dimensions (mm)		150x 50x 25(W x D x H)
	Weight (g)		Approx. 150
Applicable Standards	Safety Standards		UL 1950, CSA C22.2 No. 234 Level 3 certified Designed to meet Electrical Appliance and Material Control Law
	Conducted Emission		Designed to meet FCC Class B, VCCI Class B

Note 1: At cold start. (More current may flow at restart.)

Note 2: Ripple noise is measured with a 100MHz oscilloscope using a 1:1 probe.

Note 3: Output characteristics are measured at the output connector. Ripple noise is measured at a point 5cm from the output connector, with a 63V 47μF electrolytic capacitor attached at that point.

Note 4: It may be necessary to derate the output current depending on the operating conditions. Refer to the derated output current for the installation conditions and ambient temperature.

* Rated input/output conditions means that the switching power supply is operated within the rated input voltage, rated output voltage, rated output current, and rated frequency, at an ambient temperature of 25°C and 60% humidity.

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