

SDA SERIES

Single Output, AC/DC Module

Features:

- Meets UL1950, CSA C22.2 No. 234, Dentori, FCC Class B, VCCI No.2 for conducted noise
- Miniature Size, 43mm x 50mm x 19mm
- Light Weight, 67g
- Input AC100V~AC120V
- 5W and 10W with 5V and 12V outputs
- Natural Convection
- RCC topology
- Available to apply directly to substrate



Sanken

		Rating	5 W		10 W	
Item		Conditions	SDA005-05	SDA005-12	SDA010-05	SDA010-12
Input	Rated Input Voltage		AC100-120V			
	Input Voltage Range		AC85~132V			
	Input Current	Rated input/output conditions	0.15A(typ)		0.26A(typ)	
	Inrush Current		30A (max)		25A(max)	
	Rated Frequency Range		50/60Hz (Frequency Range 47~440Hz)			
	Efficiency(typ)	Rated input/output conditions	72%	76%	72%	76%
Output	Rated Output Voltage		+5V	+12V	+5V	+12V
	Adjustable Output Voltage Range		Fixed			
	Rated Output Current		1.0A	0.45A	2.0A	0.9A
	Adjustable Output Current Range		0~1.0A	0~0.45A	0~2.0A	0~0.9A
	Maximum Output Power		5W	5.4W	10W	10.8W
	Ripple Noise(mVp-p)	Rated input/output condition	120	150	120	150
	Constant Voltage Accuracy		±5%			
Other	Leakage Current	Rated input/output conditions	0.5mA			
	Startup Time		20ms (typ)	100ms (typ)	20ms (typ)	100ms (typ)
	Switching Method, Transformer Frequency		RCC topology, approx. 100kHz (under rated input/output conditions)			
	Output Holdup Time	Rated input/output conditions	10ms (typ)			
Additional Functions	Over Current Protection		Detection above approx. 120% of rated current			
	Over Voltage Protection		Detection above approx. 114~145% of rated voltage			
	Remote Sensing		N/A			
	Remote On/Off Control		N/A			
	Display		N/A			
Environmental	Operating Temperature		It shall be operated by 80% of rated current at -10~0°C and 50~60°C -10~+60°C			
	Storage Temperature		-25~+85°C			
	Operating Humidity		30~90% (No Condensation)			
	Storage Humidity					
Insulation	Insulation Withstand Voltage	Between Input and Output	AC2000V for 1 minute / AC2400V for 3 seconds			
		Between Input and Frame				
		Between Output and Frame				
	Insulation Resistance	Between Input and Output	100MΩ (measured with 500V DC Megger)			
Between Input and Frame						
Between Output and Frame						
Structural Specifications	Vibration Resistance		10~55Hz 10G 1 hour (X,Y,and Z directions with 3 min. vibration time)			
	Cooling Requirements		Natural Convection			
	External Appearance (W x D x H) mm		43 x 50 x 19		43 x 55 x 20	
	Weight (g)		67		84	
Applicable Standards	Safety Standards		UL1950,CSA C22.2 No.234,Dentori			
	EMI Standards		FCC Class B, VCCI Class 2			

