50WSeries single output switching power supply

Dimension: $190 \times 49 \times 34$ mm

SMV-50 Series



Features:

- Constant voltage style power supply
- 170 ~ 264VAC input range
- Small volume, low weight, high efficiency
- Protections : short circuit/over load/over voltage/over temp
- Cooling by free air convection
- Fully encapsulated with IP67 level
- 100% full load burn-in test
- 1 Year warranty

	Model	SMV-50-12	SMV-50-24	SMV-50-36
	DC voltage	12V	24V	36V
Output	Voltage tolerance	±3%	±3%	±3%
	Rated current	4.2A	2.1A	1.4A
	Current range	0~4.2A	0~2.1A	0~1.4A
	Rated power	50.4W	50.4W	50.4W
	Ripple&noise	100mVp-p	150mVp-p	180mVp-p
	Setup, rise, hold up time	500ms,20ms,24ms/230VAC.800ms,30ms,20ms/115VAC		
Input	Voltage range	170~264VAC 47~63Hz, 235~373VDC		
	AC current	0.65A/230VAC		
	Efficiency	82%	84%	85%
	Inrush current	Cold start35A/230VAC		
	leakage current	< 1mA/240VAC		
Protection		Rated output power115% ~ 150%Start overload protection		
	Overload	Protection type: hiccup mode, auto-recovery after fault condition is removed		
	Over voltage	15.6 ~ 17.8V	30.6 ~ 33.2V	42.6~44.2V
		Protection type: hiccup mode, auto-recovery after fault condition is removed		
	Over temperature	Shell temp≥85℃, Start over temp protection		
		Protection mode: cutoff output, auto-recovery after temperature become normal		
Environment	Working temp, humidity	$-10^\circ\!\mathrm{C} \sim +60^\circ\!\mathrm{C};\!20\% \sim 90\%\mathrm{RH}(\mathrm{Please}\ \mathrm{refer}\ \mathrm{to}\ \ \mathrm{``derating}\ \mathrm{curve''}\)$		
	Storage temp, humidity	−20°C ~ +85°C;10% ~ 95%RH Non−condensing		
	Withstand vibration	10~500Hz, 2G 10min./1Cycle, Period for 60min, Each axes		
Safety	Withstand voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC		
	Isolation resistance	I/P-O/P: I/P-FG,O/P-FG: 100M Ohms/500VDC		
Fit standard -	Safety standard, Protection level	Fit UL1012 Ip67		
	EMC Standard	Fit EN55022, CLASSA		
Others -	Dimension	0.53kg 190*49*34(L*W*H)		
	Weight	0.53kg/30pcs/17kg/0.87CUFT		

Note: 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

3. Tolerance : includes set up tolerance, line regulation and load regulation.

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SPECIFICATION

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