

250W Series single output switching power supply

SMV-250 Series



Dimension: 235 × 120 × 56mm

Features:

- Constant voltage style power supply
- 180 ~ 264VAC AC input
- 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

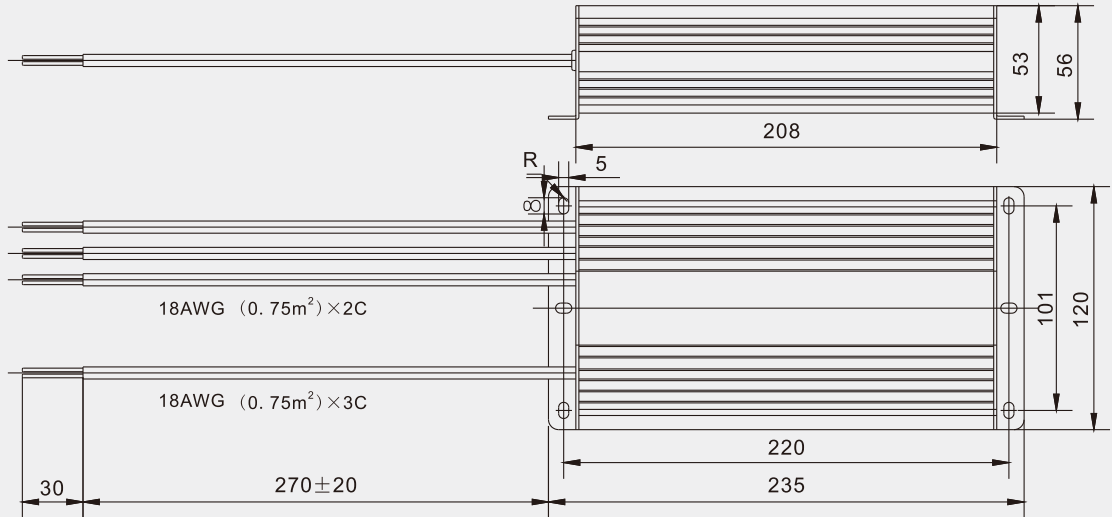
SPECIFICATION

Model		SMV-250-12	SMV-250-24	SMV-250-36	SMV-250-48
Output	DC voltage	12V	24V	36V	48V
	Voltage tolerance	± 1%	± 1%	± 1%	± 1%
	Rated current	20A	10A	7A	5.2A
	Current range	0 ~ 20A	0 ~ 10A	0 ~ 7A	0 ~ 5.2A
	Rated power	240W	240W	252W	252W
	Ripple&noise	150mVp-p	200mVp-p	200mVp-p	200mVp-p
	Setup, rise, hold up time	800ms,30ms,24ms/230VAC			
Input	Voltage range	180 ~ 264VAC 47 ~ 63Hz, 255 ~ 373VDC			
	AC current	2.8A/230VAC			
	Efficiency	82%	84%	84%	85%
	Inrush current	Cold start50A/230VAC			
	leakage current	< 3.5mA/240VAC			
Protection	Overload	Rated output power105% ~ 135%Start overload protection			
		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	50 ~ 62 V
		Protection type: hiccup mode, auto-recovery after fault condition is removed			
Over temperature	Shell temp ≥ 85°C, Start over temp protection				
	Protection mode: cutoff output, auto-recovery after temperature become normal				
Environment	Working temp, humidity	-10°C ~ +60°C;20% ~ 90%RH(Please refer to "derating 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	Fit UL1012 IP67			
	EMC Standard	Fit EN55022, CLASSA			
Others	Dimension	2.60kg 235*120*56 (L*W*H)			
	Weight	2.60kg/9pcs/24kg/1.04CUFT			

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.

Mechanical specification

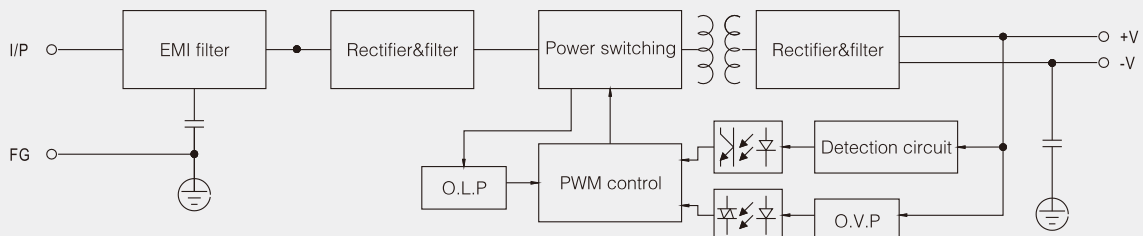
Unit:mm



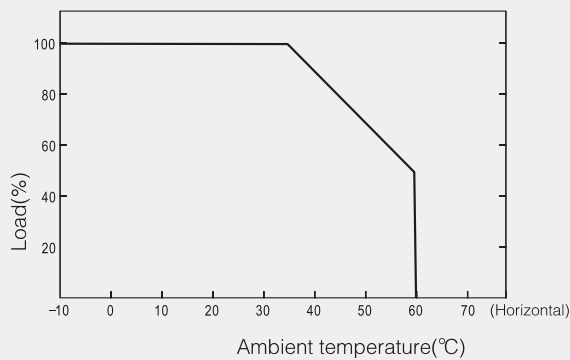
lead-out wire assignment

Input(Black three-core)		Output (White two-core)	
Brown	AC/L	Red	DC OUTPUT +V
Blue	AC/N	Black	DC OUTPUT -V
Yellow-green	FG ≡		

Block diagram



Derating curve



Static characteristic

