



Features:

- Universal AC input voltage range
- Small volume, low weight, high efficiency
- Protections : short circuit/over load/over voltage/over temp
- Cooling by free air convection
- Built-in speed control
- Built-in power factor correction, PF> 0.95
- LED indicator for power on
- 100% full load burn-in test
- 2 Years warranty



SPECIFICATION

Dimension: 215 × 115 × 50mm

Model		SP-320-5	SP-320-12	SP-320-15	SP-320-24
Output	DC voltage	5V	12V	15V	24V
	Voltage tolerance	± 2%	± 2%	± 1.5%	± 1.5%
	Rated current	50A	25A	20A	13A
	Current range	0 ~ 50A	0 ~ 25A	0 ~ 20A	0 ~ 13A
	Rated power	250W	300W	300W	312W
	Ripple&noise	150mVp-p	150mVp-p	150mVp-p	200mVp-p
	DC voltage ADJ. range	± 10%	± 10%	± 10%	± 10%
Setup, rise, hold up time		800ms,50ms,20ms/230VAC.2500ms,50ms,20ms/115VAC			
Input	Voltage range	90 ~ 264VAC 47 ~ 63Hz, 125 ~ 370VDC			
	AC current	4A/115VAC, 2A/230VAC			
	Efficiency	79%	85%	86%	87%
	Inrush current	Cold start 25A/115VAC,45A/230VAC			
	leakage current	< 3.5mA/240VAC			
	Power Factor	PF>0.95/230VAC,PF>0.98/115VAC,Output full load			
Protection	Overload	Rated output power115% ~ 150%Start overload protection			
		Protection type: hiccup mode, auto-recovery after fault condition is removed			
	Over voltage	6.5 ~ 7.5V	15.8 ~ 18V	18.9 ~ 21.6V	30.6 ~ 33.6V
		Protection type: hiccup mode, auto-recovery after fault condition is removed			
	Over temperature	≥85℃ ± 5℃(TSW1detect on heatsink of power transistor)			
		Protection mode: turn off the output, when the temperature returns to 60℃ ± 5℃ can be automatically restored			
Environment	Working temp, humidity	-20℃ ~ +60℃;20% ~ 90%RH(Please refer to “derating curve”)			
	Storage temp, humidity	-40℃ ~ +85℃;10% ~ 95%RH Non-condensing			
	Withstand vibration	10 ~ 500Hz, 2G 10min./1Cycle, Period for 60min, Each axes			
Safety	Withstand voltage	I/P-O/P: 3KVAC 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			
	EMC Standard	Fit EN55022, CLASSB			
Others	Weight	1.0kg 215*115*50mm (L*W*H)			
	Packing	1.0kg/24pcs/25kg			

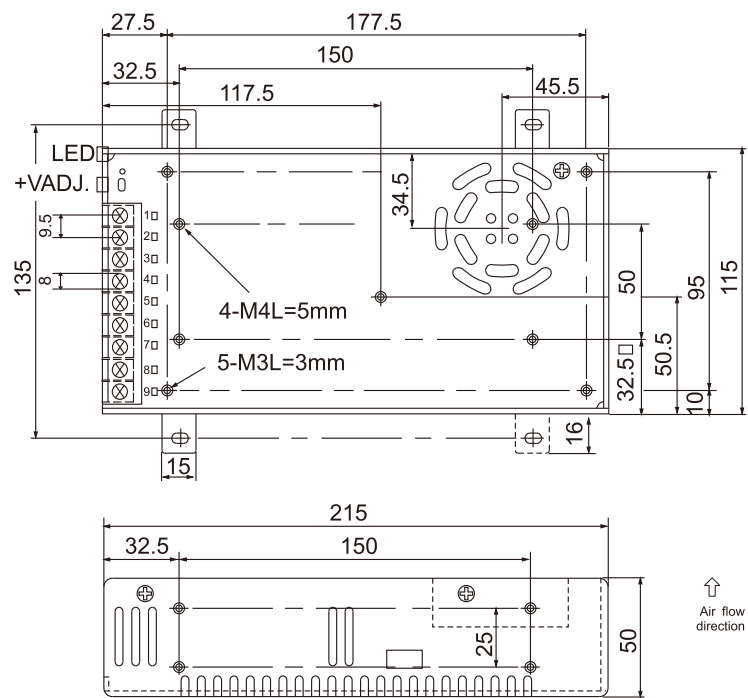
Note: 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.

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

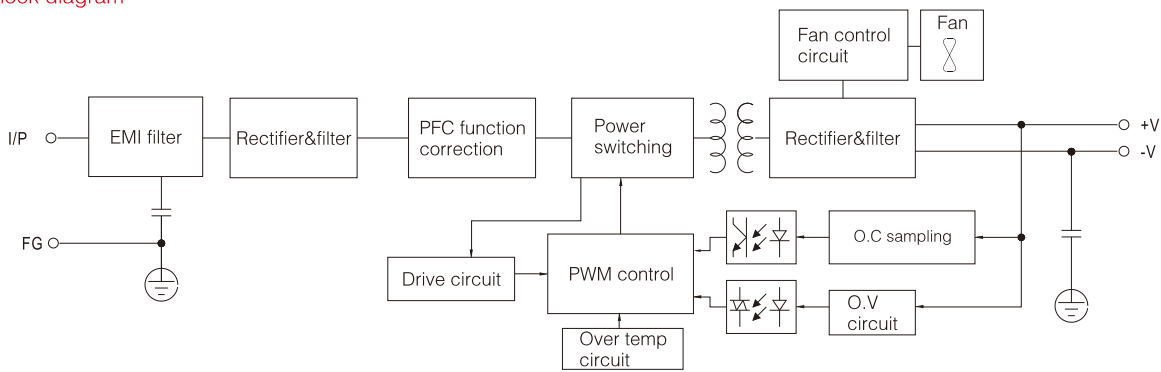
Unit:mm



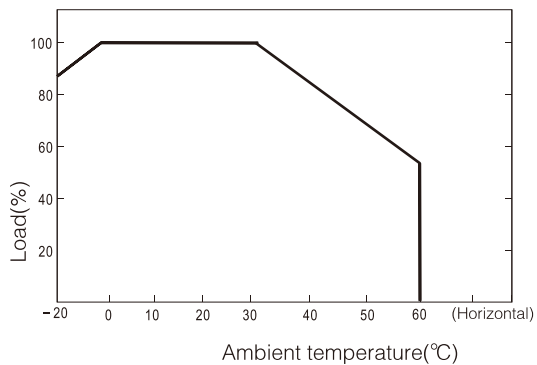
Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
9	AC/L	4~6	DC OUTPUT -V
8	AC/N	1~3	DC OUTPUT +V
7	FG		

Block diagram



Derating curve



Static characteristic

