



Dimension: 97 × 58 × 25mm

Features:

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

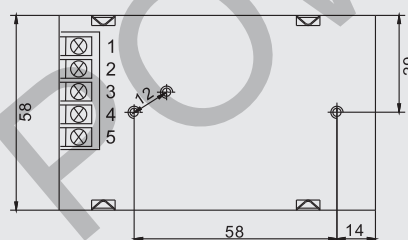
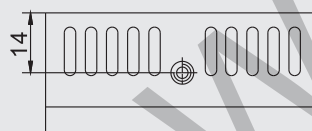
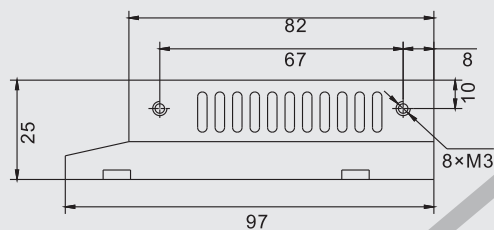
SPECIFICATION

Model		HSF-20-5	HSF-20-12	HSF-20-24
Output	DC voltage	5V	12V	24V
	Voltage tolerance	± 1%	± 1%	± 1%
	Rated current	4.0A	1.7A	0.8A
	Current range	0 ~ 4.0A	0 ~ 1.7A	0 ~ 0.8A
	Rated power	20W	20W	20W
	Ripple&noise	80mVp-p	120mVp-p	120mVp-p
	DC voltage ADJ. range	-9% ~ +10%	± 10%	± 10%
Input	Setup, rise, hold up time	600ms,20ms,24ms/230VAC. 1000ms,30ms,20ms/115VAC		
	Voltage range	90 ~ 264VAC 47 ~ 63Hz, 125 ~ 373VDC		
	AC current	0.55A/115VAC 0.25A/230VAC		
	Efficiency	75%	78%	80%
	Inrush current	Cold start 15A/115V 30A/230VAC		
	leakage current	< 0.50mA/240VAC		
Protection	Overload	Rated output power115% ~ 135%Start overload protection Protection type: hiccup mode, auto-recovery after fault condition is removed		
	Over voltage	125% ~ 150%	125% ~ 150%	125% ~ 150%
	Over voltage	Protection type: hiccup mode, auto-recovery after fault condition is removed		
		when temperature of transistor inner node is over 150°C,Start over temp protection		
	Over voltage	Protection type: hiccup mode, 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		
	EMC Standard	Fit EN55022, CLASSA		
Others	Weight	0.11kg 97*58*25 (L*W*H)		
	Packing	0.11kg/140pcs/16kg/0.9CUFT		

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

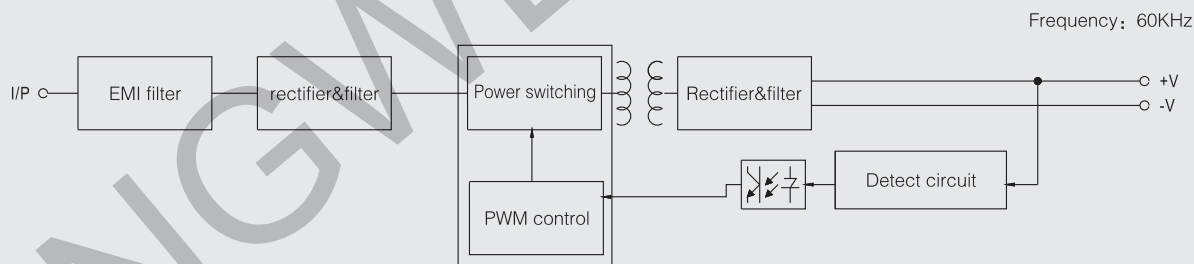
Unit:mm



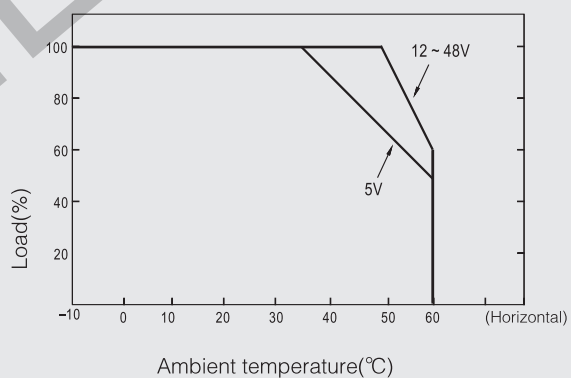
Terminal Pin No.Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V
2	AC/N	5	DC OUTPUT +V
3	FG $\perp$		

Block diagram



Derating curve



Static characteristic

