hvele 恒伟　HS–15W Series single output switching power supply

Features：
· 170～264VAC input range
· Small volume，low weight，high efficiency
· Protections：short circuit/over load
· Cooling by free air convection
· LED indicator for power on
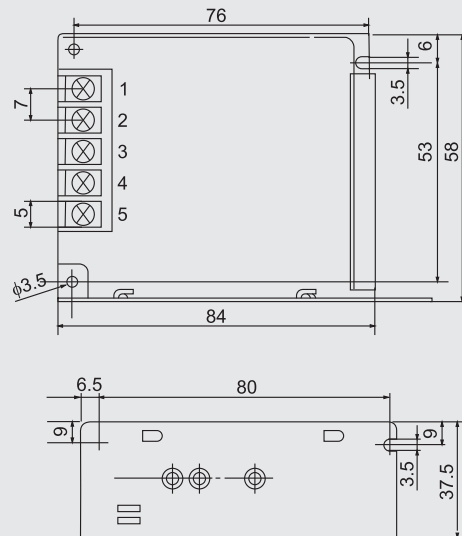· 100% full load burn–in test
· 2 Years warranty

Dimension：84×58×38mm

CE

SPECIFICATION

Model		HS–15–5	HS–15–12	HS–15–24
Output	DC voltage	5V	12V	24V
	Voltage tolerance	±1%	±1%	±1%
	Rated current	3A	1.3A	0.7A
	Current range	0～3A	0～1.3A	0～0.7A
	Rated power	15W	15.6W	16.8W
	Ripple&noise	80mVp–p	120mVp–p	150mVp–p
	DC voltage ADJ. range	−9%～+10%	±10%	±10%
	Setup，rise，hold up time	200ms,50ms,20ms/230VAC		
Input	Voltage range	170～264VAC 47～63Hz，235～373VDC		
	AC current	0.25A/230VAC		
	Efficiency	76%	78%	80%
	Inrush current	Cold start30A/230VAC		
	leakage current	＜0.5mA/240VAC		
Protection	Overload	Rated output power115%～150%Start overload protection		
		Protection type：part layer type current limit，auto–recovery after fault condition is removed		
Environment	Working temp，humidity	−10℃～+60℃;20%～90%RH(Please refer to "derating curve")		
	Storage temp，humidity	−20℃～+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：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	0.15kg　84*58*38（L*W*H）		
	Packing	0.15kg/80pcs/13kg		

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.
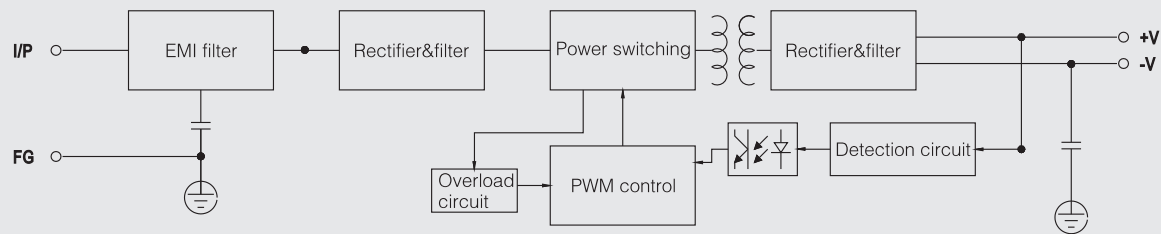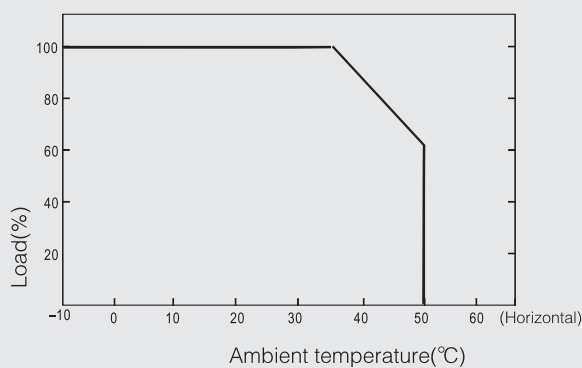
Mechanical specification

Unit:mm

76

6

3.5

7

53

58

5

84

φ3.5

6.5

80

9

9

3.5

37.5

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 ⏚		

Block diagram

I/P — EMI filter — Rectifier&filter — Power switching — Rectifier&filter — +V / -V

FG

Overload circuit — PWM control — Detection circuit

Derating curve

Load(%)

100, 80, 60, 40, 20

−10, 0, 10, 20, 30, 40, 50, 60 (Horizontal)

Ambient temperature(℃)

Static characteristic

Ta=25℃

Load(%)

100, 85, 70, 55, 40, 25

170, 200, 220, 230, 250, 264

Input voltage(V)50Hz