



50W Single Output Switching Power Supply

SF-50series



尺寸：111×78×36mm

Features:

International general ac voltage input

Small volume, light weight, high efficiency

Protection characteristics: short circuit/overload/pressure

Air cooling

Has the boot display (light emitting diode)

100% full load and machine test

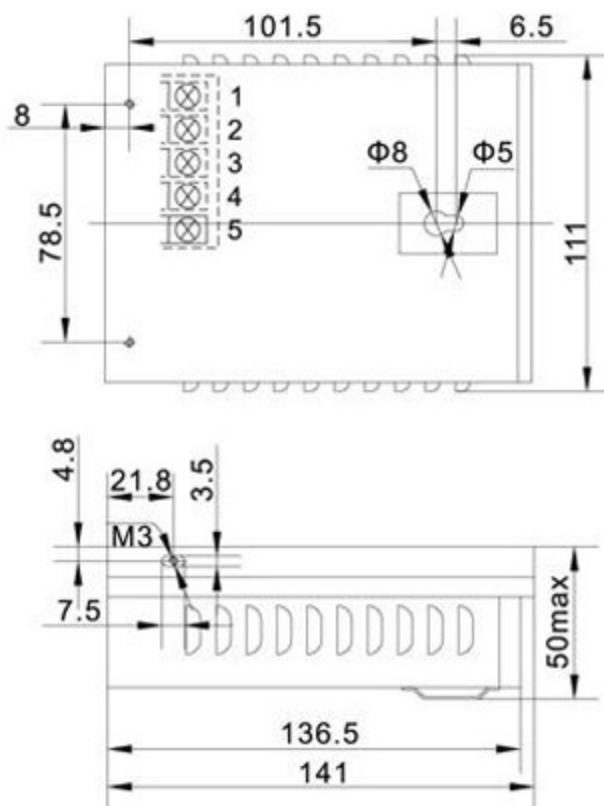
2 years quality assurance

Electrical specifications



Type		SF-50-5	SF-50-12	SF-50-24
Output	Dc output voltage	5V	12V	24V
	Output voltage tolerance	± 1%	± 1%	± 1%
	Rated output current	10A	4.2A	2.1A
	Output current range	0-10A	0-4.2A	0-2.1A
	Output power	50W	50.4W	50.4W
	Ripple and the noise	80mVp-p	100mVp-p	120mVp-p
	Dc voltage adjustable scope	-9%~+10%	± 10%	± 10%
	Start, up, and keep time	600ms,30ms,24ms/230VAC.1000ms,30ms,20ms/115VAC		
Input	Input voltage range	90~264VAC 47~63Hz or 120~373VDC		
	Exchange input current	1.2A/115VAC 0.6A/230VAC		
	Efficiency	79%	82%	84%
	Impulse current	Cold start current 35A/230VAC		
	Leakage current	< 2mA/240VAC		
Protection characteristics	Overload protection	Rated output power of 110%~150% start over load protection Protection way: hiccups mode, load abnormal conditions can be removed to recover		
	Over-voltage protection	6.2~6.8V	15~16V	30~31V
		Protection way: hiccups mode, abnormal conditions can be removed to recover		
Environment	Working temperature, humidity	-10℃~+60℃;20%~90%RH(Please refer to reduce the specified number load curve)		
	Keep temperature, humidity	-20℃~+85℃;10%~95%RH No condensation		
	Vibrate resistance	10~500Hz, 2G 10min./1 cycle, Duration 60 minutes, the axis		
Security	Compression sex	Input/output between: 1.5KVAC Input and ground: 1.5KVAC Output and ground: 0.5KVAC		
	Insulation resistance	Input/output between: Input and the earth, the output and the earth: 100M Ohms/500VDC		
Conform to the standards	Safety standards	Accord with UL1012		
	EMC standards	Accord with EN55022, CLASSA		
Other	Weight	0.27kg 111*78*36 (L*W*H)		
	Packaging	0.27kg/50pcs/14.5kg		
Note	1. All the parameters in has not specified, all is in 230VAC voltage input, rated load and 25℃ conditions measuring income value . 2. Ripple and noise voltage is in 20MHz bandwidth with 12 inches oscilloscope twisted pair end and 0.1μand 47μcapacitance measurement when. 3. Tolerance is voltage setting error, the voltage adjustment rate and the current adjust rate combined.			

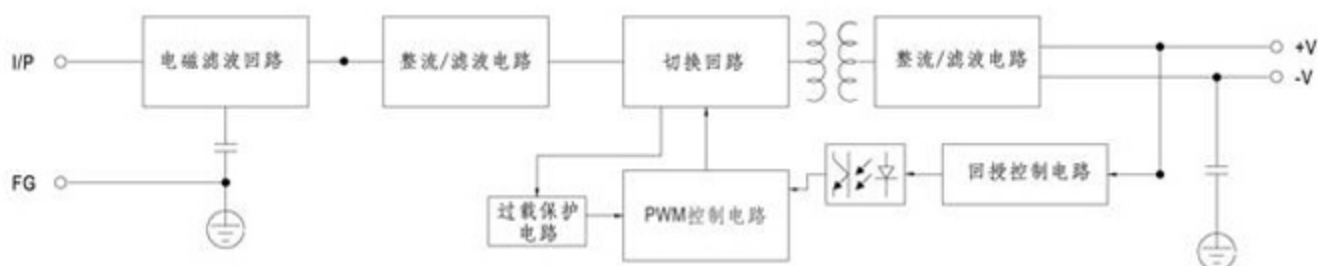
■ 机构尺寸 单位:mm



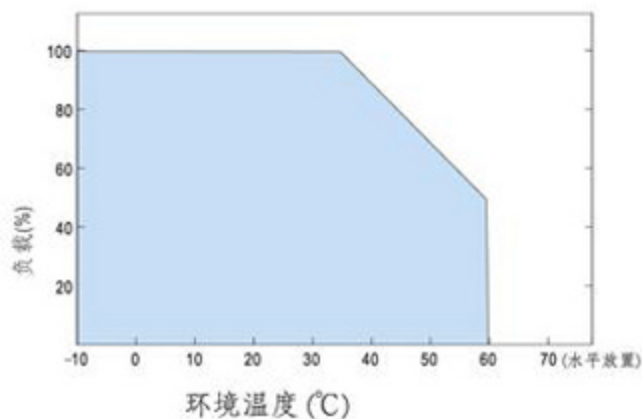
端子Pin脚分配

Pin脚编号	分配	Pin脚编号	分配
1	AC/L	4	DC OUTPUT -V
2	AC/N	5	DC OUTPUT +V
3	FG 地		

■ 原理图



■ 负载减额曲线



■ 静态特性曲线

