



## 特点

- \* 外形尺寸: 50.8 × 40.6 × 12.7 mm
- \* 2: 1 电压输入范围
- \* 固定开关频率
- \* 六面金属封装

## Features

- \* Small Size: 2.00 × 1.60 × 0.50 inch
- \* 2: 1 Input Voltage Range
- \* Constant Frequency
- \* Encapsulated in Metal Cases

### 输入特性(Input)

注释(Notes and Conditions)

输入电压范围(Input Voltage Range)				
标称(Nominal)	12Vdc	9~18Vdc		25Vdc Max
标称(Nominal)	24Vdc	18~36Vdc		40Vdc Max
标称(Nominal)	48Vdc	36~72Vdc		80Vdc Max
标称(Nominal)	110Vdc	70~140Vdc		160Vdc Max
遥控功能(Remote On/Off Function)				
正逻辑(Positive Logic)	开启(On)	高电平或悬空 (High Level or Open Circuit)		相对于 -Vin (Reference to -Vin)
	关闭(Off)	零电平或短路 (Connect to -Vin)		

### 输出特性(Output)

注释(Notes and Conditions)

输出电压精度(Voltage Set-Point Accuracy)	± 1%	V <sub>inom</sub> and I <sub>onm</sub>
源效应(Line Regulation)	± 0.2%V <sub>o</sub>	V <sub>imin</sub> ~V <sub>imax</sub> , I <sub>onm</sub>
负载效应(Load Regulation) <sup>1</sup>	± 0.5%V <sub>o</sub>	10%~100%I <sub>onm</sub> , V <sub>inm</sub>
输出过流保护点(Current Limit Threshold Range)	≥ 110%I <sub>o</sub>	
瞬态响应(Dynamic Response)		
过冲幅度(Peak Deviation)	± 5%V <sub>o</sub>	25%-50%-25% of I <sub>onm</sub>
恢复时间(Settling Time)	200 μs	and 50%-75%-50% of I <sub>onm</sub>
输出电压调节范围(Voltage Trim Range)	± 10%	
短路保护(Short-Circuit Protection)	连续可恢复 (Continuous, Automatic Recovery)	

### 一般特性(General)

注释(Notes and Conditions)

温度系数(Temperature Coefficient)	± 0.02%/°C	
隔离电压(Isolation Voltage)		
输入与输出(Input-Output)	1000Vdc 1min	
输入与外壳(Input-Case)	700Vdc or 500Vac 1min	
输出与外壳(Output-Case)	700Vdc or 500Vac 1min	
工作壳温(Operating Case Temperature) <sup>2</sup>		
	- 25°C ~ + 85°C	
	- 40°C ~ + 85°C	加后缀“(B)” (With Suffix “(B)”)
贮存温度(Storage Temperature)	- 40°C ~ + 125°C	
冷却方式(Cooling)	自然冷却(Natural Convection)	
平均故障间隔时间(MTBF)	2 × 10 <sup>5</sup> h	MIL-HDBK-217

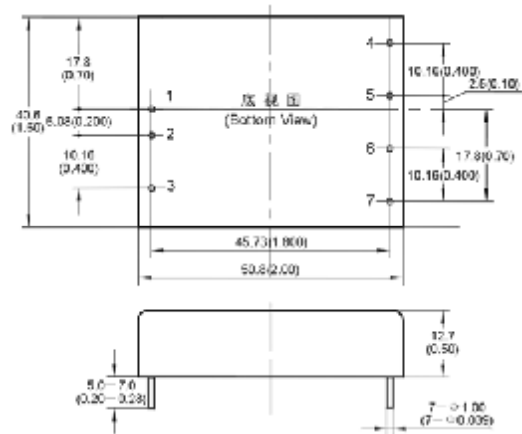
注(Notes): 1 双路输出平衡加载(Dual Output, For Balanced Loads)

2 - 40°C工作是可选功能, 加后缀“(B)”(- 40°C operating temperature is optional, with suffix “(B)”)

## 型号列表 (Models)

产品型号 (Model Number)	标称输入电压 (Input Voltage) Vdc	标称输出电压 (Output Voltage) Vdc	标称负载 (Output Current) A	额定输出功率 (Output Power) W	效率 (Efficiency) %	输出杂音电压峰值 (Ripple and Noise) mVp-p
SF110S5-20W	110	5.00	4.00	20	82	75
SF48S3V3-20W	48	3.30	5.00	16.5	80	75
SF48S3V3-20W/H	48	3.30	6.00	20	80	75
SF48S5-20W	48	5.00	4.00	20	82	75
SF48S12-20W	48	12.00	1.67	20	84	100
SF48S15-20W	48	15.00	1.33	20	85	100
SF48S18-20W	48	18.00	1.11	20	85	100
SF48D5-20W	48	± 5.00	± 2.00	20	84	75
SF48D8-20W	48	± 8.00	± 1.25	20	86	75
SF48D12-20W	48	± 12.00	± 0.83	20	85	100
SF48D15-20W	48	± 15.00	± 0.67	20	86	100
SF24S3V3-20W	24	3.30	5.00	16.5	79	75
SF24S5-20W	24	5.00	4.00	20	80	75
SF24S12-20W	24	12.00	1.67	20	83	100
SF24S15-20W	24	15.00	1.33	20	84	100
SF24S24-20W	24	24.00	0.84	20	84	240
SF24D5-20W	24	± 5.00	± 2.00	20	80	75
SF24D12-20W	24	± 12.00	± 0.83	20	84	100
SF24D15-20W	24	± 15.00	± 0.67	20	84	100
SF12S5-20W	12	5.00	4.00	20	82	75

## 安装尺寸 (Mechanical Drawing)



尺寸单位是 mm(inches); All Dimensions in mm (inches)

### 引脚定义 (Pin Definition)

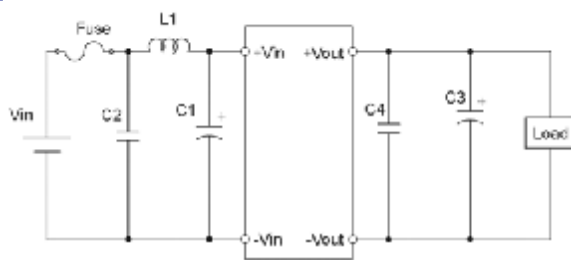
引脚(Pin)	单路(Single)	双路(Dual)
1	+Vin	+Vin
2	-Vin	-Vin
3	Rem	Rem
4	NP	+Vout
5	+Vout	COM
6	-Vout	-Vout
7	Trim	Trim

### 未注公差按下表

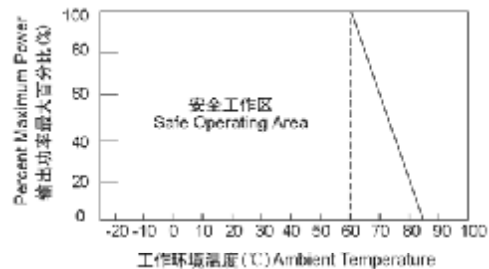
(Tolerances Unless Otherwise Specified)

mm	inches
.x ±0.5	.xx ±0.02
.xx ±0.13	.xxx ±0.005

## 应用电路推荐 (Recommended Application Circuit)



## 温度降额曲线 (Temperature Derating Curve)



注: 除非另有说明, 指标一般在标称输入电压、满载和 25°C 环境温度下测得。

Note: All specifications are typical at nominal input, full load at 25°C unless otherwise stated.