



特点

- * 外形尺寸: 50.8 × 25.4 × 11.0 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 × 1.00 × 0.43 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)	5Vdc	4.5~5.5Vdc	9Vdc Max
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)	72Vdc	48~96Vdc	120Vdc Max
标称 (Nominal)	84Vdc	55~110Vdc	120Vdc Max
标称 (Nominal)	110Vdc	70~140Vdc	160Vdc Max
遥控功能 (Remote On/Off Function) ¹		型号加尾缀 /R (Suffix"/R")	
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%	Vinom and Ionom	
源效应 (Line Regulation)	± 0.2%Vo	Vimin~Vimax, Ionom	
负载效应 (Load Regulation) ²	± 0.5%Vo	10%~100%Ionom, Vinom	
输出过流保护点 (Current Limit Threshold Range)	≥ 110%Io		
瞬态响应 (Dynamic Response)			
过冲幅度 (Peak Deviation)	± 5%Vo	25%-50%-25% of Ionom	
恢复时间 (Settling Time)	200 μs	and 50%-75%-50% of Ionom	
输出电压调节范围 (Voltage Trim Range) ¹	± 10%	型号加尾缀 /T (Suffix"/T")	
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)	500Vdc or 350Vac 1min		
工作壳温 (Operating Case Temperature) ³		Ambient Temperature	
	-25°C ~ +85°C		
	-40°C ~ +85°C ³	加尾缀 "(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 ⁵ h	
重量 (Weight)		35g	

- 注 (Notes):
- 1 单路输出可选功能 (Single Output Only, Optional)
 - 2 双路输出平衡加载 (Dual Output, For Balanced Loads)
 - 3 -40°C 工作是可选功能, 加尾缀 "(B)" (-40°C operating temperature is optional, with suffix "(B)")

SF-10~15W Series



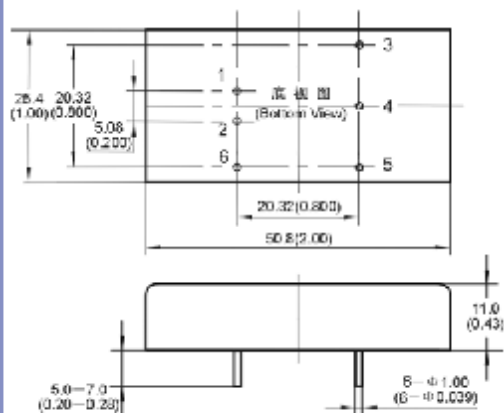
型号列表 (Models)

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
SF05S48-10W ⁴	5	48.00	0.20	10	78	200
SF12S3V3-10W	12	3.30	3.00	10	75	75
SF12S5-10W	12	5.00	2.00	10	80	75
SF12S5-15W	12	5.00	3.00	15	83	50
SF12S12-10W	12	12.00	0.83	10	83	100
SF12D5-10W	12	± 5.0	± 1.00	10	81	75
SF12D12-10W	12	± 12.00	± 0.42	10	83	100
SF12D15-10W	12	± 15.0	± 0.33	10	83	100
SF24S3V3-10W	24	3.30	3.00	10	79	75
SF24S5-10W	24	5.00	2.00	10	80	75
SF24S5-15W	24	5.00	3.00	15	81	75
SF24S9-10W	24	9.00	1.10	10	82	100
SF24S9-15W	24	9.00	1.67	15	83	100
SF24S12-10W	24	12.00	0.83	10	83	100
SF24S12-15W	24	12.00	1.25	15	82	100
SF24S15-10W	24	15.00	0.67	10	84	100
SF24S18-10W	24	18.00	0.56	10	82	100
SF24S24-10W	24	24.00	0.42	10	82	150
SF24S24-15W	24	24.00	0.63	15	85	150
SF24D5-10W	24	± 5.00	± 1.00	10	80	75
SF24D12-10W	24	± 12.00	± 0.42	10	83	100
SF24D15-10W	24	± 15.00	± 0.33	10	83	100
SF48S3V3-10W	48	3.30	3.00	10	79	75
SF48S5-10W	48	5.00	2.00	10	82	75
SF48S5-10W/RT	48	5.00	2.00	10	82	75
SF48S5-15W	48	5.00	3.00	15	82	75
SF48S12-10W	48	12.00	0.83	10	83	100
SF48S12-15W	48	12.00	1.25	15	84	100
SF48S15-10W	48	15.00	0.67	10	84	100
SF48S24-10W	48	24.00	0.42	10	83	200
SF48S24-15W	48	24.00	0.62	15	85	150
SF48S48-10W	48	48.00	0.21	10	86	400
SF48D5-10W	48	± 5.00	± 1.00	10	80	75
SF48D12-10W	48	± 12.00	± 0.42	10	83	100
SF48D15-10W	48	± 15.00	± 0.33	10	84	100
SF48D053V3-10W/RN ⁵	48	+5/+3.4	+1.70/+1.0	10	80	75
SF72S12-10W	72	12.00	0.83	10	83	100
SF84S5-5W	84	5.00	1.00	5	80	50
SF110S5-10W	110	5.00	2.00	10	79	75
SF110S12-10W	110	12.00	0.83	10	82	100
SF110S15-10W	110	15.00	0.67	10	82	100
SF110S24-10W	110	24.00	0.42	10	82	200
SF110D5-10W	110	± 5.0	± 1.0	10	78	75

注(Note): 4 SF05S48-10W模块的输出引脚3(Pin3)为-48V, 输出引脚5(Pin5)为-48V地
5 SF48D053V3-10W/RN的输出引脚3(Pin3)为+5V, 输出引脚5(Pin5)为+3.4V

安装尺寸 (Mechanical Drawing)

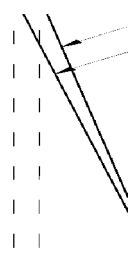
尺寸单位是 mm(inches); All Dimensions in mm (inches)



引脚定义 (Pin Definition)		
引脚(Pin)	单路(Single)	双路(Dual)
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	N P	COM
5	-Vout	-Vout
6	N P	N P

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

温度降额曲线 (Temperature Derating Curve)



工作环境温度(°C) Ambient Temperature

*: 单路输出加后缀 "RT" 型号, 4脚为 Trim, 6脚为 Rem.
(Single output with suffix "RT", Pin 4 for Trim, Pin 6 for Rem.)

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.