

J3-5AW SERVES

◎封装尺寸（超小尺寸）Size dimensional: 25.4x25.4x17.6mm 外形图Outside drawing

- ◎超宽范围输入Wide input voltage range
- ◎高转换效率，典型Typical efficiency : 80%
- ◎开关频率Switching frequency : 65KHz±10KHz
- ◎过流、短路保护,自恢复Over current、short circuit protection
- ◎输入与输出4KV高隔离Input-output isolate at 4kv
- ◎PCB板上直插式安装Board in-line type installs
- ◎温度适应范围宽Wide temperature range


输入特性Input

输入电压范围 Input voltage range	标称Nom(V)	最小Min(V)	最大Max(V)	输入比Input
	220AC(310Vdc)	85AC(120Vdc)	305AC(430Vdc)	4:1
	220AC(310Vdc)	165AC(200Vdc)	305AC(430Vdc)	2:1
输入频率范围	50Hz	47Hz	440Hz	47-440Hz
遥控端ON/OFF	无遥控端No remote		热拔插	不支持

输出特性Output

输出电压精度Output voltage accuracy	标称电压Nominal output voltage	Vo1:±1.0%
源效应Line regulation	标称负载，全范围Nominal load, gamut	Vo1:±0.2%
负载效应Load regulation	20%~100%额定负载Rated load	Vo1:±0.5%
输出纹波及噪声 Output Ripple and noise	20MHz Bm满载Full load	Vo≤5V:≤80mVp-p
		Vo>48V:≤180mVp-p;
		其它电压≤120mVp-p
动态响应Dynamic response	25%的标称负载阶跃Nom load stepped	ΔVo1/Δt:±4.0/500us%
输出电压调节Output voltage adjust		无调节端
启动延迟时间Start delay time	典型值Typical	≤200mS
输出短路保护Short circuit protection	长期短路Continued short circuit protection	打嗝式，自恢复

一般特性General

转换效率Efficiency	Vo≤5.0V:79%典型Typical	Vo>5.0V:82%典型
开关频率Switching frequency	65KHz典型Typical	70KHz最大Max
工作温度Operating temperature	自由空气对流Free air convection	-25℃~+75℃工业级
		-40℃~+85℃军级
焊接温度Welding temperature	手工焊接Hand welding	360±10℃;时间:5~10S
	波峰焊接Wave welding	260±5℃;时间:3~5S
储存温度Storage temperature		-40℃~+105℃
相对湿度Relative humidity		10%~90%
外壳材料Case material	UL94V-0黑色塑壳Black plastic case:AP	
隔离电压Isolation voltage	输入与输出Input and output	4.0KVac≤2mA/1分钟Minute
	输入与外壳Input and case	AP:5KVac≤1mA/1分钟
最小无故障间隔时间 (MTBF)	MIL-HDBK-217@25℃	2X10 ⁴ Hrs

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产品选型Product Selection

输入电压范围 Input voltage range	标称输出电压/输出电流Nom output voltage/current					
	单路Single		型号Type	单路Single		型号Type
	V	A		V	A	
165-305Vac 200-430Vdc 85-305Vac 120-430Vdc	3.3V	625mA	J3AW220S3V3A1	3.3V	1.25A	J5AW220S3V3A1
	5V	600mA	J3AW220S05A1	5V	1.0A	J5AW220S05A1
	9V	333mA	J3AW220S09A1	9V	555mA	J5AW220S09A1
	12V	250mA	J3AW220S12A1	12V	416mA	J5AW220S12A1
	15V	200mA	J3AW220S15A1	15V	333mA	J5AW220S15A1
	18V	166mA	J3AW220S18A1	18V	277mA	J5AW220S18A1
	24V	125mA	J3AW220S24A1	24V	208mA	J5AW220S24A1

注:1、因篇幅有限,以上只是部分产品列表,若需列表以外产品,请与本公司销售部或办事处联系。

2、当工作温度为+70℃时,应按温度降额曲线图使用。

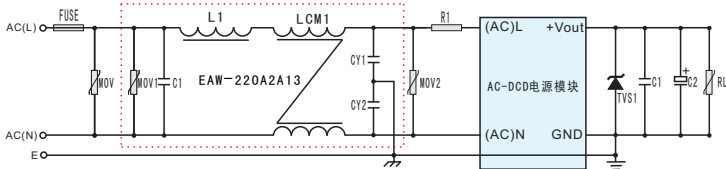
3、测试条件:所有参数测试均在标称输入电压、纯阻性额定负载及25℃室温环境下测得。

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EMC特性

EMI	传导骚扰	CISPR32/EN55032 CLASS B
	辐射骚扰	CISPR32/EN55032 CLASS B
EMS	静电放电	IEC/EN61000-4-2 Contact $\pm 6KV$ /Air $\pm 8KV$ perf.Criteria B
	辐射抗干扰度	IEC/EN61000-4-3 10V/m perf.Criteria A
	脉冲群抗干扰度	IEC/EN61000-4-4 10V/m $\pm 4KV$ perf.Criteria B
	浪涌抗干扰度	IEC/EN61000-4-5 line to Line $\pm 1KV$ perf.Criteria B
		IEC/EN61000-4-5 line to $\pm 2KV$ /line to E $\pm 4KV$ perf. Criteria B (EMC解决方案推荐电路图)
	传导骚扰抗干扰度	IEC/EN61000-4-6 10Vr.m.s perf.Criteria A
电压暂降、跌落和短时中断抗干扰度	IEC/EN61000-4-11 0%,70% perf.Criteria B	

设计参考电路Design reference circuit

1. 典型应用电路: (红色虚框内可选)

EMC解决方案推荐电路图


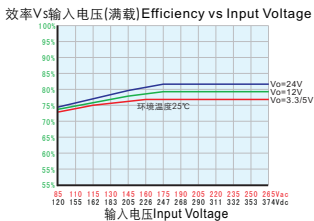
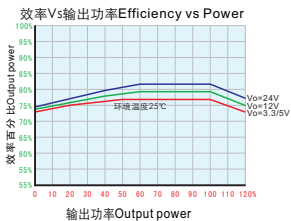
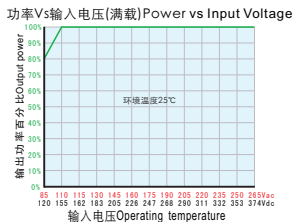
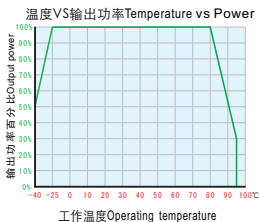
2. 参数列表:

元件型号		推荐值
MOV1	1、虚线内可选。 2、我公EMC辅助器,型号: EAW-220A2A13	14D561K压敏电阻
CY1/CY2		1000PF/400Vac安规电容
C1		0.1uF/275Vac盒形电容
L1		4.7uH/2A电感
LCM1		2.2mH共模电感
MOV2		14D471K压敏电阻
R1	20-25Ω线绕电阻	
FUSE		3.15A/250V,延时保险

注: 输出滤波C2电容宜采用Lowesr电解电容, 容量参考容性负载表, 耐压至少额定输出电压1.4倍以上, C1为无极性电容, 去除高频噪音, TVS管选用额定输出电压+2V左右, 在电源模块输出异常时起到保护后级电路用, 推荐增加。

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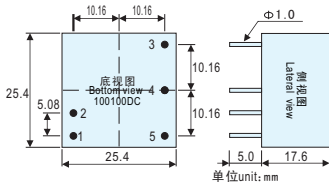
产品特性曲线图 Product characteristic curve chart



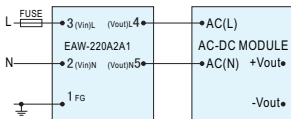
注:以上曲线图仅作参考

外形尺寸及管脚定义 Size dimensional

封装尺寸图 Size dimensional drawing



EMC连接典型应用 Typical adhibition


 注: 保险丝(必须接)按照电源模块设计电流选择
 FUSE According to the current power module design choice

管脚说明 Pin	1	2	3	4	5
单路 Single	AC(N)	AC(L)	NP	GND	+Vout