

**JWA 金属封装系列电源模块--25W 双路共地输出**

JWA Metal packaging series power module-- 25W Dual output common ground

**典型性能 Typical Performance**

◆ 外形尺寸: 72\*50\*28 (mm)  
Dimension: 72\*50\*28 (mm)

◆ 宽电压输入范围

Wide range input voltage

◆ 交直流输入方式

AC/DC input mode

◆ 高效率、高功率密度、低纹波

High efficiency、High power density、Low ripple & noise

◆ 黑金属外壳，八面屏蔽，通孔安装

Black metal shell, Eight face shield, Hole is installed



**输入特性 Input Features**

输入电压范围 Input voltage range	W:85~265VAC 120~370VDC N:165~265VAC 230~370VDC	110VAC 220VAC
输入电压频率 Input voltage frequency		47~63Hz
输入冲击电流 Inrush current	230VAC 冷启动 230VAC Cold start,	≦ 20A

**输出特性 Output Features**

输出电压精度 Voltage tolerance	标称电压 Nominal voltage	$V_{O1} \leq \pm 1\%$ (3.3V、5V $\leq \pm 2\%$ ) $V_{O2} \leq \pm 3.0\%$
电压调整率 Line regulation (full load)	输入电压从低端到高端变化 Change of input voltage from lowend to highend	$V_{O1} \leq \pm 0.5\%$ $V_{O2} \leq \pm 1.5\%$
负载调整率 Load regul	20%~100%负载变化 20%~100% Load change	$V_{O1} \leq \pm 0.5\%$ $V_{O2} \leq \pm 3.0\%$
温度系数 Temperature coefficient		$\pm 0.02\%/^{\circ}\text{C}$
容性负载 Capacitive load	输入标称电压、满载 Input rated voltage、Full load	见附表 As per list enclosed
过功率保护 Output overpower Protection		115~150%额定电流,自恢复 115~150%rated outputpower, auto recovery
短路保护 Short Circuit Protection		长期,自恢复 Long-term, auto recovery
启动时间 Rise time	220VAC 满载 220VAC Full load	50mS (典型值) 50ms (typical)
保持时间 Hold up time	220VAC 满载 220VAC Full load	20mS (典型值) 50ms (typical)

**一般特性 General Features**

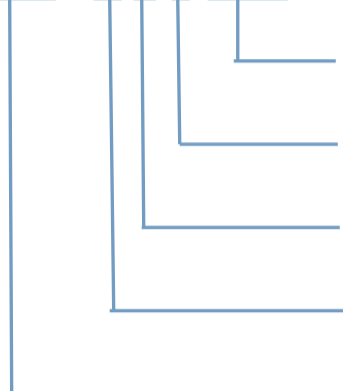
隔离耐压 Withstand voltage	输入对输出、输入对地 I/P-O/P、I/P-F/G 输出对地 O/P -F/G (1分钟,漏电流 $\leq 5\text{mA}$ ) (1Mintute ,leakage current) $\leq 5\text{mA}$ )	2500VAC  500VAC
绝缘电阻 Isolation resistance	500V	$\geq 100\text{M}\Omega$
MTBF	环境 25°C Environment 25°C	$2.0 \times 10^5$ Hrs
工作温度 Operating temperature	55°C 以上降额使用 Above 55°C derating make	-25°C~70°C或-40°C~70°C -25°C~70°C or -40°C~70°C
储存温度 Storage temperature		-40°C~85°C
工作相对湿度 Operating humidity	无凝露及结冰现象 (non condensing)	10%~90%RH
储存相对湿度 Storage humidity	无凝露及结冰现象 (non condensing)	5%~95%RH
冷却方式 Cooling method		自然冷却 Convection

## 容性负载 Capacitive Load

Vout:5V		Vout:12V、15V		Vout:24V	
推荐值 Recommendations	最大值 Maximum	推荐值 Recommendations	最大值 Maximum	推荐值 Recommendations	最大值 Maximum
1000 $\mu$ F	4700 $\mu$ F	1000 $\mu$ F	3300 $\mu$ F	470 $\mu$ F	1000 $\mu$ F

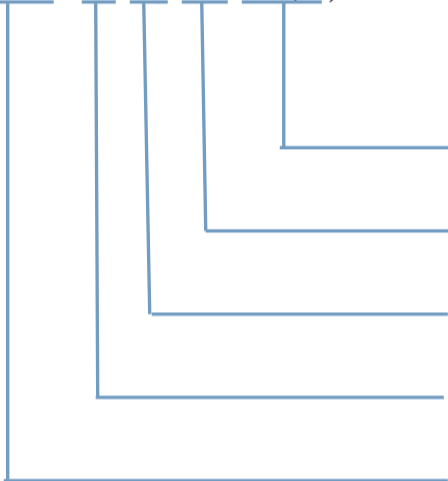
## 命名方式 Naming Rules

JWA -25 D 5 W(N)



输入电压范围 (W:85~265V, N:165~265V)  
Input voltage range (W:85~265V, N:165~265V)  
输出电压  
Output voltage  
双路共地输出  
Dual output common ground  
输出功率  
Output power  
AC/DC 金属封装电源模块  
AC/DC Metal packaging power module

JWA - 25 S5 S12 W(N)



输入电压范围 (W:85~265V, N:165~265V)  
Input voltage range (W:85~265V, N:165~265V)  
输出电压  $V_{O2}$   
Output voltage  $V_{O2}$   
输出电压  $V_{O1}$   
Output voltage  $V_{O1}$   
输出功率  
Output power  
AC/DC 金属封装电源模块  
AC/DC Metal packaging power module

## 产品选型 Product selection

产品型号 Model No.	输出电压 Output voltage $V_O$	输出电流 Output current $I_O$	输出电压精度 Output voltage tolerance	纹波噪声 R&N $V_{(P-P)mV}$	效率 Efficiency
JWA-25D5W(N)	+5V	0.30~2.50A	$\pm 2\%$	100mV	76%
	-5V	0.30~2.50A	$\pm 5\%$	100mV	
JWA-25D12W(N)	+12V	0.10~1.04A	$\pm 1\%$	120mV	80%
	-12V	0.10~1.04A	$\pm 3\%$	120mV	
JWA-25D15W(N)	+15V	0.08~0.83A	$\pm 1\%$	120mV	82%
	-15V	0.08~0.83A	$\pm 3\%$	120mV	
JWA-25D24W(N)	+24V	0.05~0.52A	$\pm 1\%$	150mV	84%
	-24V	0.05~0.52A	$\pm 3\%$	150mV	
JWA-25S5S5W(N)	+5V	0.30~3.00A	$\pm 2\%$	100mV	76%
	+5V	0.20~2.00A	$\pm 5\%$	100mV	
JWA-25S5S12W(N)	+5V	0.30~3.00A	$\pm 2\%$	100mV	78%
	+12V	0.08~0.83A	$\pm 3\%$	120mV	
JWA-25S5S15W(N)	+5V	0.30~3.00A	$\pm 2\%$	100mV	79%
	+15V	0.06~0.67A	$\pm 3\%$	120mV	
JWA-25S5S24W(N)	+5V	0.30~3.00A	$\pm 2\%$	100mV	80%
	+24V	0.04~0.42A	$\pm 3\%$	150mV	
JWA-25S12S5W(N)	+12V	0.10~1.25A	$\pm 1\%$	120mV	72%
	+5V	0.20~2.00A	$\pm 5\%$	100mV	
JWA-25S12S12W(N)	+12V	0.10~1.25A	$\pm 1\%$	120mV	81%
	+12V	0.08~0.83A	$\pm 3\%$	120mV	
JWA-25S12S15W(N)	+12V	0.10~1.25A	$\pm 1\%$	120mV	82%
	+15V	0.06~0.67A	$\pm 3\%$	1200mV	
JWA-25S12S24W(N)	+12V	0.10~1.25A	$\pm 1\%$	120mV	83%
	+24V	0.04~0.42A	$\pm 3\%$	150mV	

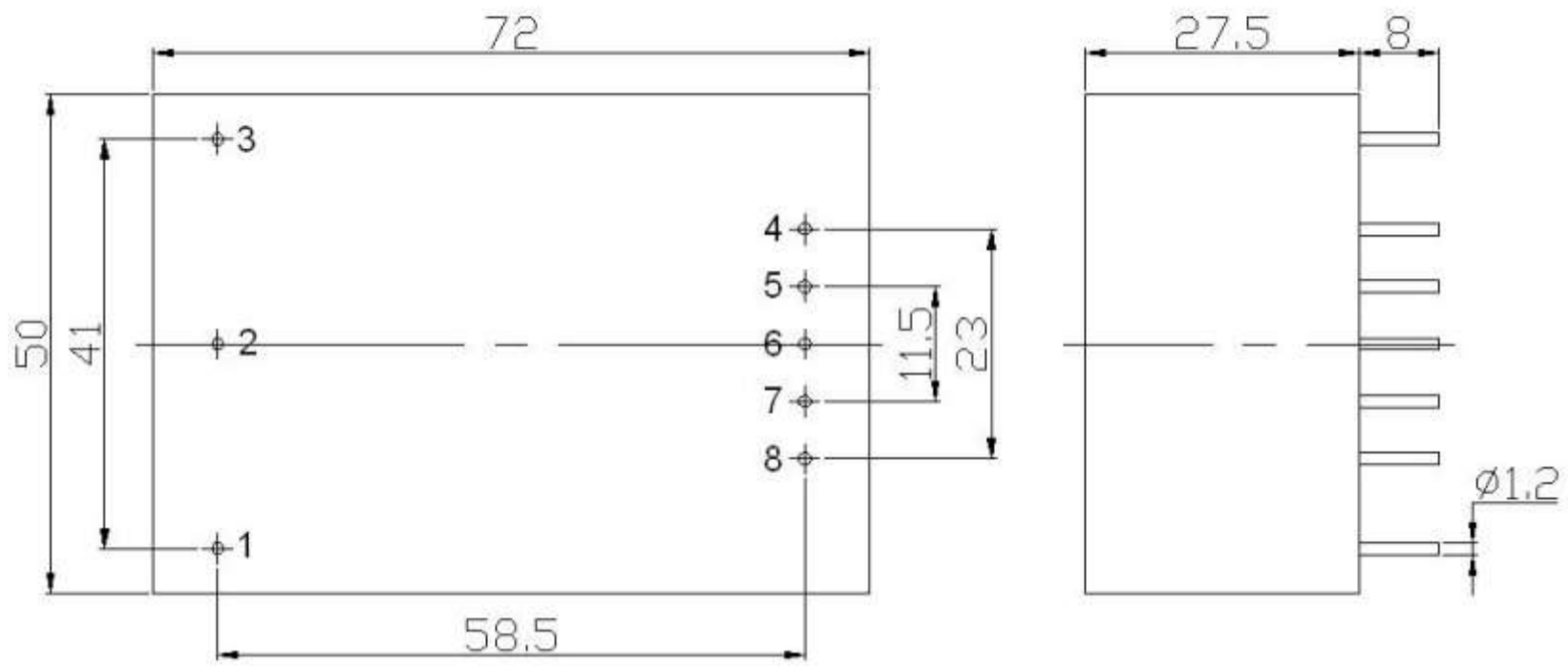
注：因篇幅有限，以上只是部分产品列表，若需列表以外产品，请与本公司销售部联系。

Note: Due to space limitations, the above list is only for some products, If other than a list of products, please contact the Company's sales department.

输出纹波噪声（峰-峰值）的测量，请参照模块测试说明中介绍的方法进行。

Output ripple noise measurement (peak - peak), please refer to the module test notes method is introduced.

## 封装尺寸图 Mechanical Data



## 管脚定义 Pin Assignments

P1	P2	P3	P4	P5	P6	P7	P8
FG	AC(L)	AC(N)	V <sub>O1+</sub>	NP	COM	NP	V <sub>O2-</sub>

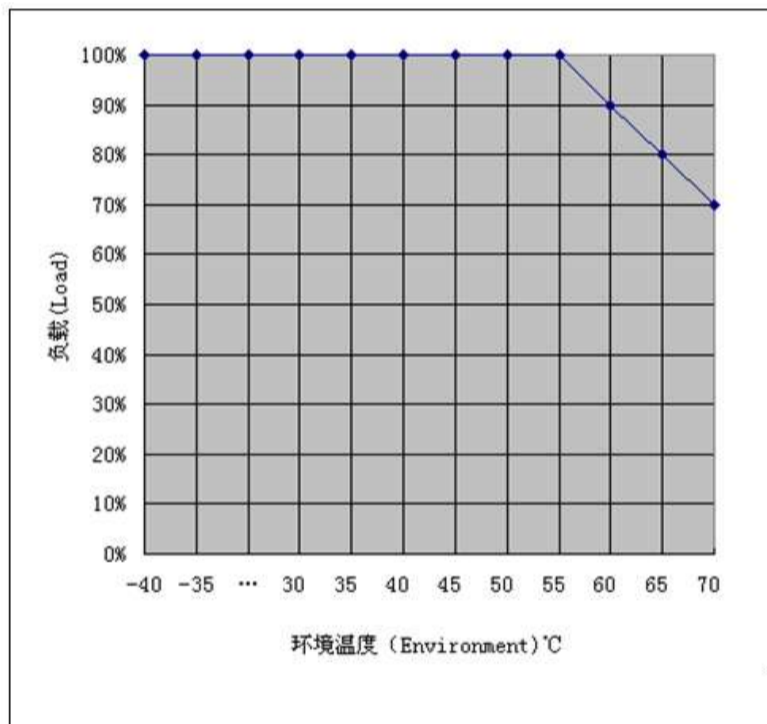
注：电源模块的外形尺寸和管脚定义如与选型手册不符，请以实物实际尺寸为准。

Note: Dimensions and pin definitions of power module such as inconsistent with the hand book, please in kind prevail actual size

## 典型曲线 Typical curve

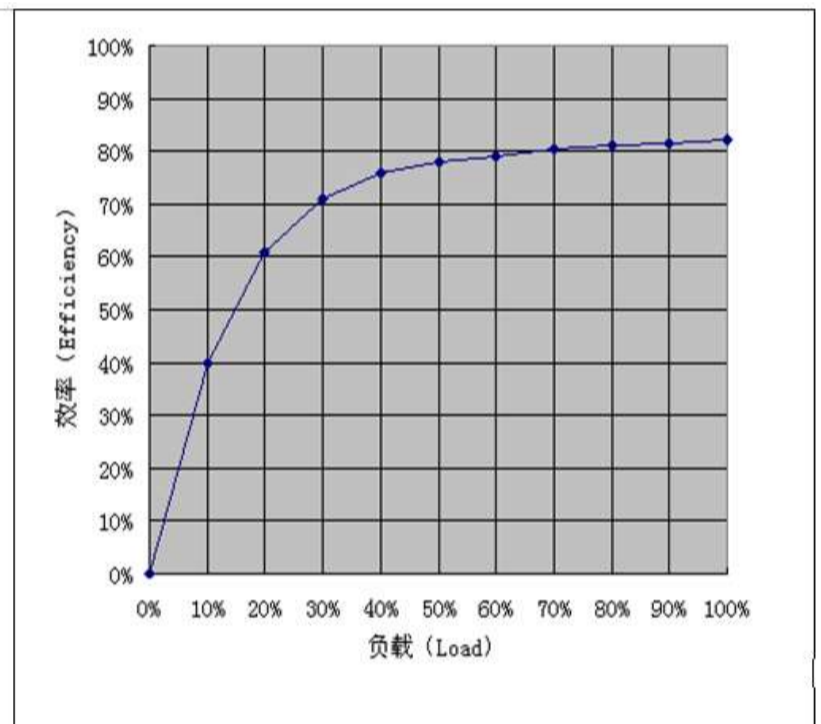
降额曲线

Derating curve



效率曲线

Efficiency curve



## 纹波噪声测试: (靠测法 20MHz)

测试方法：纹波&噪声用示波器来测试。测试模块噪声时为了避免引入额外噪声，须用示波器探头直接接触模块输出引脚

