



AC/DC 整机工控电源

JWAK 整机工控电源系列--50W 单路输出

JWAK Switching Power Supply Series--50W Single Output

典型性能 Typical Performance

- ◆外形尺寸: 130*98*40 (mm)
Dimension: 130*98*40 (mm)
- ◆宽输入电压范围
Wide range input voltage
- ◆高效率、高功率密度、低纹波
High efficiency、High power density、Low ripple & noise
- ◆105°C长寿命电解电容
105°C long life electrolytic capacitors
- ◆高可靠性、三年保修
High reliability、three-year warranty
- ◆安规: EN60950
Ann rules: EN60950



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

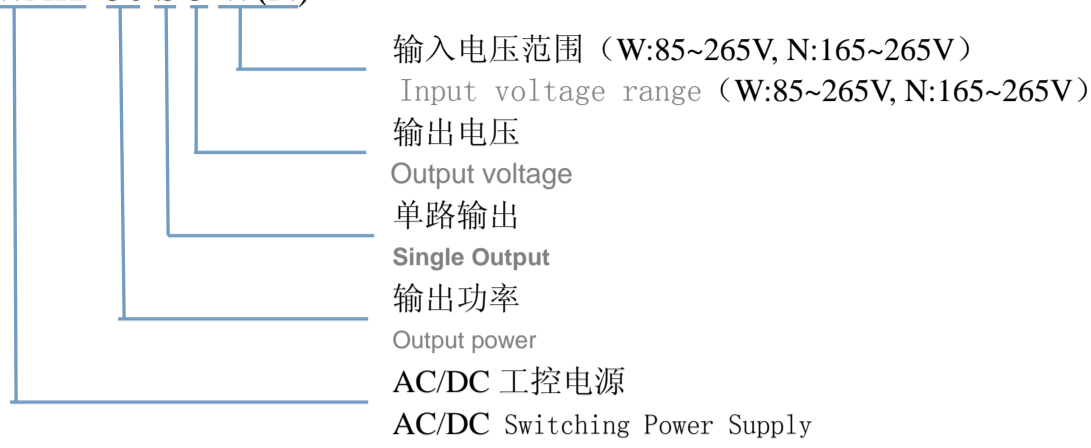
输出电压精度 Voltage tolerance	标称电压 Nominal voltage	≅ ±1% (3.3V、5V ≅ ±2%)
电压调整率 Line regulation (full load)	输入电压从低端到高端变化 Change of input voltage from lowend to highend	≅ ±0.5%
负载调整率 Load regul	20%~100%负载变化 20%~100% Load change	$V_O \cong \pm 0.5\%$
纹波噪声 Ripple&Noise	20M 带宽 20M Bandwidth	≅ 1%
温度系数 Temperature coefficient		±0.02%/°C
过功率保护 Output overload Protection		115~150%额定电流,自恢复 115~150%rated output circuit,auto recovery
短路保护 Short Circuit Protection		长期, 自恢复 Long-term,auto recovery
效率 Efficiency	输入标称电压、满载 Input rated voltage、full load	82% (典型值) 82%(typical)
启动时间 Rise time	220VAC 满载 220VAC Full load	500mS (典型值) 500ms (typical)
保持时间 Hold up time	220VAC 满载 220VAC Full load	50mS (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 ≅ 5mA) (1Mintute leakage current) ≅ 5mA)	1500VAC 500VAC
绝缘电阻 Isolation resistance	500V	≅ 50MΩ
MTBF	环境 25°C Environment 25°C	2.0*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(-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

命名方式 Naming Rules

JWAK- 50 S 5 W(N)



产品选型 Product Selection Table

产品型号 Product model	输出电压 Output voltage Vo	输出电流 Output current Io	输出电压精度 Output voltage tolerance	纹波噪声 R&N V (P-P)mV	效率 Efficiency
JWAK-50S3.3W(N)	3.3V	0~15.2A	±2%	100mV	76%
JWAK-50S5W(N)	5V	0~10.0A	±2%	100mV	79%
JWAK-50S12W(N)	12V	0~4.2A	±1%	120mV	82%
JWAK-50S15W(N)	15V	0~3.3A	±1%	120mV	84%
JWAK-50S24W(N)	24V	0~2.1A	±1%	150mV	85%
JWAK-50S48W(N)	48V	0~1.1A	±1%	200mV	86%

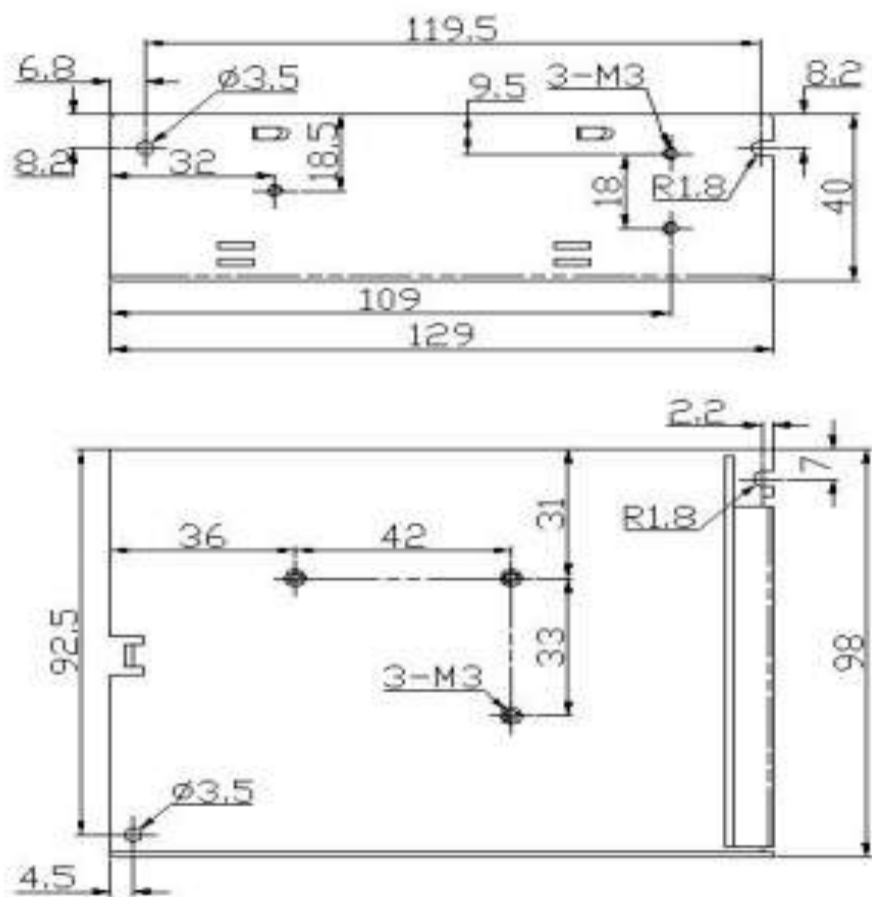
注：1、纹波噪声测试方法：使用一根 12" 双绞线，在终端并联 0.1uF 和 47uF 电容，在 20MHz 带宽下测试。

2、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: 1、Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor

2、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.

安装尺寸图 Mechanical Data



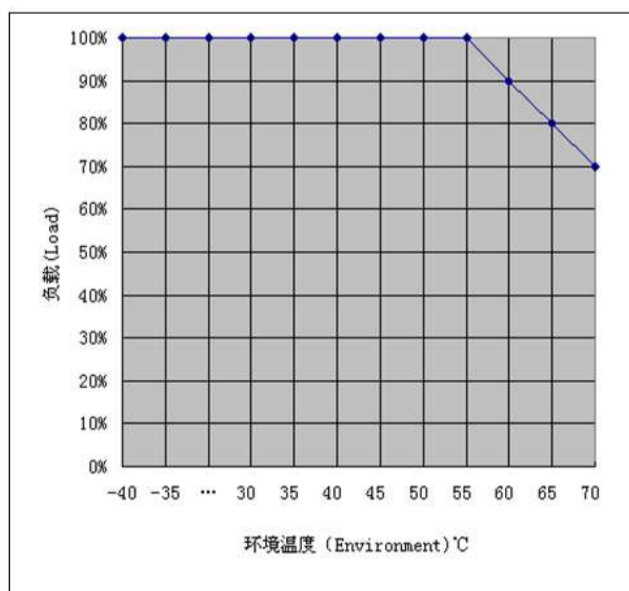
注：电源安装尺寸如与选型手册不符，请以实物尺寸为准。

Note: Power mechanical data does not match with the hand book, Please refer to produc

典型曲线 Typical curve

降额曲线

Derating curve



静态特性曲线

Output Derating VS Input Voltage curve

