



DC/DC 整机工控电源

JWDC 整机工控电源系列--300W 单路输出

JWDC Switching Power Supply Series--300W Single Output

典型性能 Typical Performance

- ◆外形尺寸: 215*115*50 (mm)
Dimension: 215*115*50 (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℃长寿命电解电容
105℃ 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 | 标称 24V Nominal voltage 24V | 18~36VDC |
| | 标称 48V Nominal voltage 48V | 36~72VDC |
| | 标称 110V Nominal voltage 110V | 72~144VDC |
| | | |

输出特性 Output Features

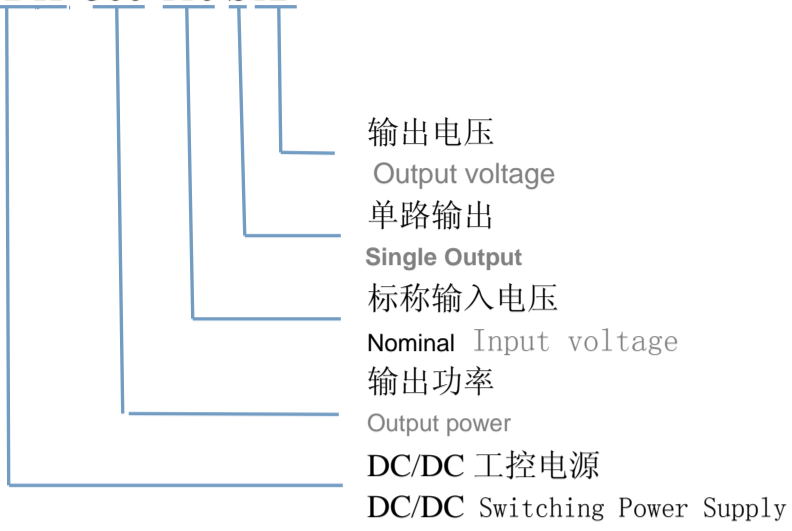
| | | |
|---------------------------------------|--|--|
| 输出电压精度 Voltage tolerance | 标称电压 Nominal voltage | $\pm 1\%$ (5V $\pm 2\%$) |
| 电压调整率 Line regulation (full load) | 输入电压从低端到高端变化 Change of input voltage from lowend to highend | $\pm 0.5\%$ |
| 可调范围 Adjustment range | | $\pm 10\%$ |
| 负载调整率 Load regul | 20%~100%负载变化 20%~100% Load change | $V_o \pm 0.5\%$ |
| 纹波噪声 Ripple&Noise | 20M 带宽 20M Bandwidth | $\leq 1\%$ |
| 温度系数 Temperature coefficient | | $\pm 0.02\%/^{\circ}\text{C}$ |
| 过流保护 Output overcircuit 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 |
| 过冲幅度 Overshoot | 25%额定负载变化 25% rated load change | $\leq 25\mu\text{S}$ |
| | $\Delta V_{01} / V_{01}$ | $\leq \pm 5.0\%$ |

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 输入对地 I/P-F/G (1分钟,漏电流 $\leq 5\text{mA}$) (1Mintute ,leakage current) $\leq 5\text{mA}$) | 1500VAC 500VAC |
| 绝缘电阻 Isolation resistance | 500V | $\geq 50\text{M}\Omega$ |
| MTBF | 环境 25℃ Environment 25℃ | $2.0 \times 10^5 \text{Hrs}$ |
| 工作温度 Operating temperature | 55℃以上降额使用 Above 55℃ derating make | -40℃~70℃ |
| 储存温度 Storage temperature | | -40℃~85℃ |
| 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 | | 风冷 Fan |

命名方式 Naming Rules

JWDK- 300-110 S12



产品选型

Product selection

| 产品型号 Model No. | 输入电压范围 Input voltage V_{in} | 输出电压 Output voltage V_o | 输出电流 Output current I_o | 纹波噪声 R & N $V_{(P-P)mV}$ | 效率 Efficiency |
|-------------------|-------------------------------------|---------------------------------|---------------------------------|--------------------------------|------------------|
| JWDK300--24S5 | 18~36V | 5V | 60.0A | 100 | 78% |
| JWDK300--24S12 | | 12V | 25.0A | 120 | 84% |
| JWDK300--24S15 | | 15V | 20.0A | 120 | 85% |
| JWDK300--24S24 | | 24V | 12.5A | 150 | 87% |
| JWDK300--24S48 | | 48V | 6.3A | 200 | 89% |
| JWDK300--48S5 | 36~72V | 5V | 60.0A | 100 | 78% |
| JWDK300--48S12 | | 12V | 25.0A | 120 | 84% |
| JWDK300--48S15 | | 15V | 20.0A | 120 | 85% |
| JWDK300--48S24 | | 24V | 12.5A | 150 | 87% |
| JWDK300--48S48 | | 48V | 6.3A | 200 | 89% |
| JWDK300--110S5 | 72~144V | 5V | 60.0A | 100 | 78% |
| JWDK300--110S12 | | 12V | 25.0A | 120 | 85% |
| JWDK300--110S15 | | 15V | 20.0A | 120 | 86% |
| JWDK300--110S24 | | 24V | 12.5A | 150 | 88% |
| JWDK300--110S48 | | 48V | 6.3A | 200 | 90% |

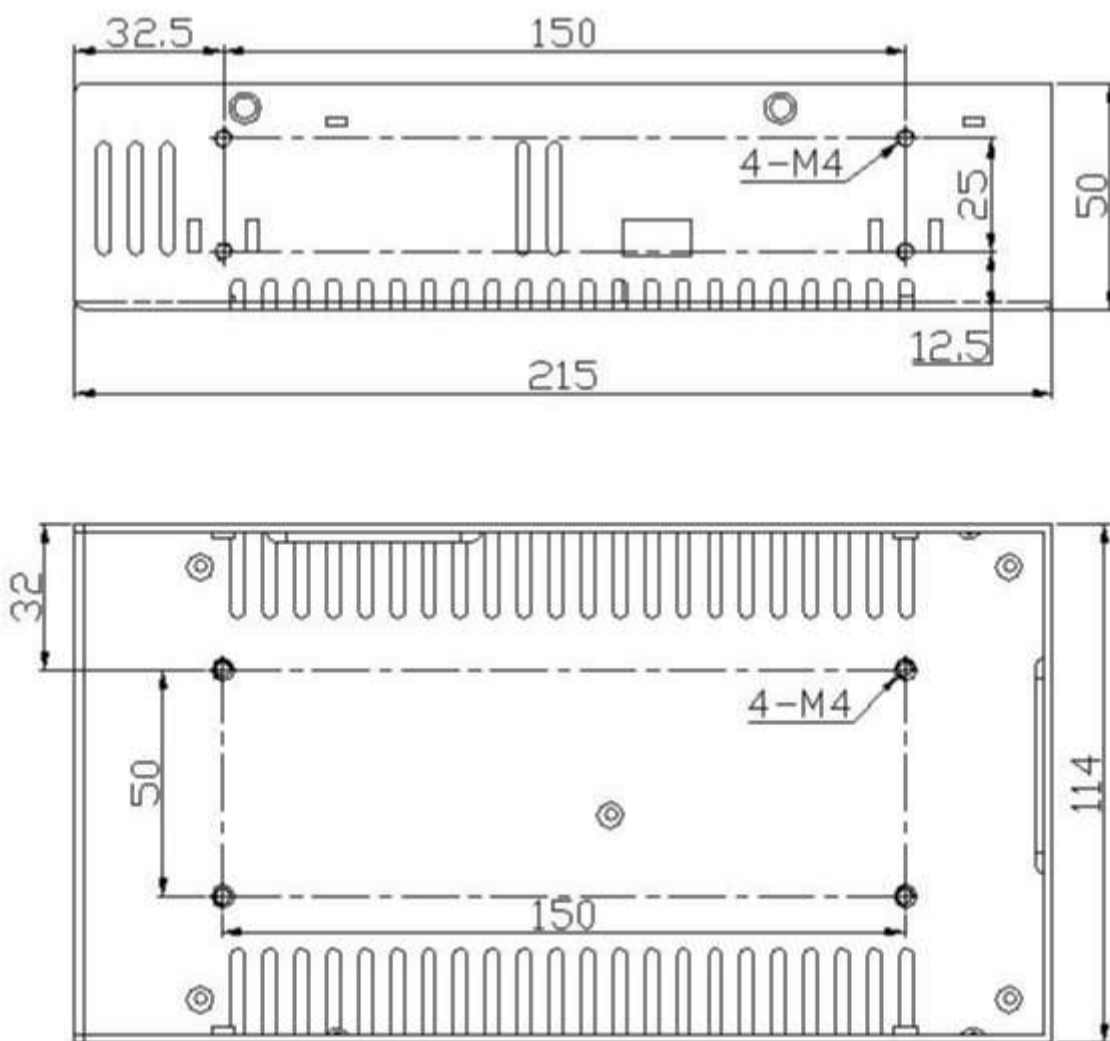
注：1、纹波噪声测试方法：使用一根 12” 双绞线，在终端并联 0.1uF 和 47uF 电容，在 20MHz 带宽下测试。

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 product size.