



DC/DC 整机工控电源

JWDK 整机工控电源系列--50W 双路输出

JWDK Switching Power Supply Series--50W dual 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（2：1 输入电压范围）
Wide range input voltage（2：1 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 12V: Nominal voltage12V(W)	9.5~18VDC
	标称 24V Nominal voltage24V	18~36VDC
	标称 48V Nominal voltage48V(W)	36~72VDC
	标称 110V Nominal voltage110V	66~160VDC

输出特性 Output Features

输出电压精度 Voltage tolerance	标称电压 Nominal voltage	$V_{01} \cong \pm 1\%$ (3.3V、5V $\cong \pm 2\%$), $V_{02} \cong \pm 5\%$
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	$V_{01} \cong \pm 0.5\%$, $V_{02} \cong \pm 1.5\%$
负载调整率 Load regul	20%~100%负载变化 20%~100% Load change	$V_{01} \cong \pm 0.5\%$, $V_{02} \cong \pm 3\%$
温度系数 Temperature coefficient		$\pm 0.02\%/^{\circ}\text{C}$
过功率保护 Output overload Protection		115~150%额定电流,自恢复 115~150%rated output powerl,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	$\cong 25\mu\text{S}$
	$\Delta V_{01} / V_{01}$	$\cong \pm 5.0\%$

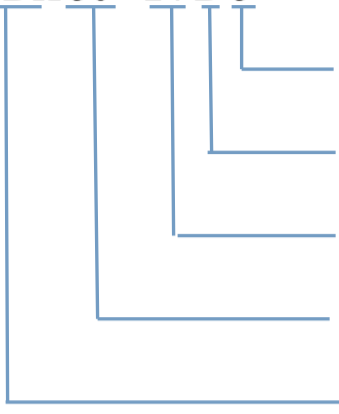
一般特性 General Features

隔离耐压 Withstand voltage	输入对输出、输入对地 I/P-O/P、I/P-F/G	1500VAC
	输出对地 O/P -F/G	500VAC
	输出对输出（隔离） O/P-O/P((1分钟,漏电流 $\cong 5\text{mA}$) (1Mintute leakage current) $\cong 5\text{mA}$)	500VDC

绝缘电阻 Isolation resistance	500V	$\cong 50\text{M}\Omega$
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	-25℃~70℃(-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		自然冷却 Convection

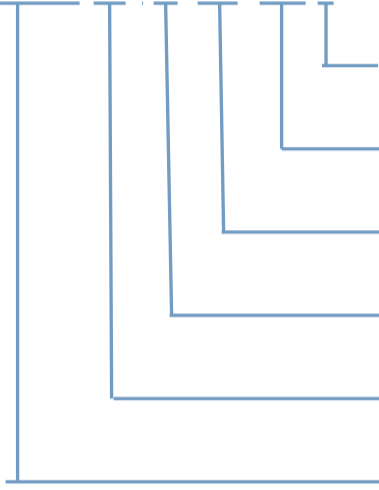
命名方式 Naming Rules

JWDK 50 - 24 D 5



输出电压
Output voltage
双路共地输出
Dual common-GND output
标称输入电压
Nominal Input voltage
输出功率
Output power
DC/DC 工控电源
DC/DC Switching Power Supply

JWDK 50- 24 S5 S12 I



隔离输出
Isolate output
输出电压 V_{O2}
Output voltage V_{O2}
输出电压 V_{O1}
Output voltage V_{O1}
标称输入电压
Nominal Input voltage
输出功率
Output power
DC/DC 工控电源
DC/DC Switching Power Supply

产品选型 Product selection

产品型号 Model No.	输入电压 Input voltage V_{in}	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
JWDK50-12D5	9.5~18V	+5V	0.5~5.0A	±2%	80mV	78%
		-5V	0.5~5.0A	±5%	100mV	
JWDK50-12D12		+12V	0.2~2.1A	±1%	100mV	82%
		-12V	0.2~2.1A	±5%	100mV	
JWDK50-12D24		+24V	0.1~1.0A	±1%	150mV	84%
		-24V	0.1~1.0A	±3%	150mV	
JWDK50-12S5S5I		+5V	0.5~5.0A	±2%	80mV	77%
		+5V	0.2~2.0A	±5%	100mV	
JWDK50-12S5S12I		+5V	0.5~5.0A	±2%	80mV	79%
		+12V	0.1~1.0A	±5%	100mV	
JWDK50-12S12S5I		+12V	0.4~3.5A	±1%	120mV	80%
		+5V	0.1~1.0A	±5%	100mV	
JWDK50-12S24S5I	+24V	0.2~1.5A	±1%	150mV	82%	
	+5V	0.1~1.0A	±5%	100mV		
JWDK50-24D5	18~36V	+5V	0.5~5.0A	±2%	80mV	78%
		-5V	0.5~5.0A	±5%	100mV	
JWDK50-24D12		+12V	0.2~2.1A	±1%	100mV	82%
		-12V	0.2~2.1A	±3%	100mV	
JWDK50-24D24		+24V	0.1~1.0A	±1%	150mV	84%
		-24V	0.1~1.0A	±3%	150mV	
JWDK50-24S5S5I		+5V	0.5~5.0A	±2%	80mV	78%
		+5V	0.2~2.0A	±5%	100mV	
JWDK50-24S5S12I		+5V	0.5~5.0A	±2%	80mV	79%
		+12V	0.1~1.0A	±5%	100mV	
JWDK50-24S12S5I		+12V	0.4~3.5A	±1%	120mV	80%
		+5V	0.1~1.0A	±5%	100mV	
JWDK50-24S24S5I	+24V	0.2~1.5A	±1%	150mV	82%	
	+5V	0.1~1.0A	±5%	100mV		
JWDK50-48D5	36~72V	+5V	0.5~5.0A	±2%	80mV	78%
		-5V	0.5~5.0A	±5%	100mV	
JWDK50-48D12		+12V	0.2~2.1A	±1%	100mV	82%
		-12V	0.2~2.1A	±3%	100mV	
JWDK50-48D24		+24V	0.1~1.0A	±1%	150mV	84%
		-24V	0.1~1.0A	±3%	150mV	
JWDK50-48S5S5I		+5V	0.5~5.0A	±2%	80mV	78%
		+5V	0.2~2.0A	±5%	100mV	
JWDK50-48S5S12I		+5V	0.5~5.0A	±2%	80mV	79%
		+12V	0.1~1.0A	±3%	100mV	
JWDK50-48S12S5I		+12V	0.4~3.5A	±1%	120mV	80%
		+5V	0.1~1.0A	±5%	100mV	
JWDK50-48S24S5I	+24V	0.2~1.5A	±1%	150mV	82%	
	+5V	0.1~1.0A	±5%	100mV		
JWDK50-110D5		+5V	0.5~5.0A	±2%	80mV	79%
		-5V	0.5~5.0A	±5%	100mV	
JWDK50-110D12		+12V	0.2~2.1A	±1%	100mV	83%
		-12V	0.2~2.1A	±3%	100mV	
	+24V	0.1~1.0A	±1%	150mV		

JWDK50-110D24	66~160V	-24V	0.1~ 1.0A	±3%	150mV	85%
JWDK50-110S5S5I		+5V	0.5~ 5.0A	±2%	80mV	79%
		+5V	0.2~2.0A	±5%	100mV	
JWDK50-110S5S12I		+5V	0.5~5.0A	±2%	80mV	80%
		+12V	0.1~1.0A	±3%	100mV	
JWDK50-110S12S5I		+12V	0.4~3.5A	±1%	120mV	81%
		+5V	0.1~1.0A	±5%	100mV	
JWDK50-110S24S5I		+ 24V	0.2~1.5A	±1%	150mV	83%
	+5V	0.1~ 1.0A	±5%	100mV		

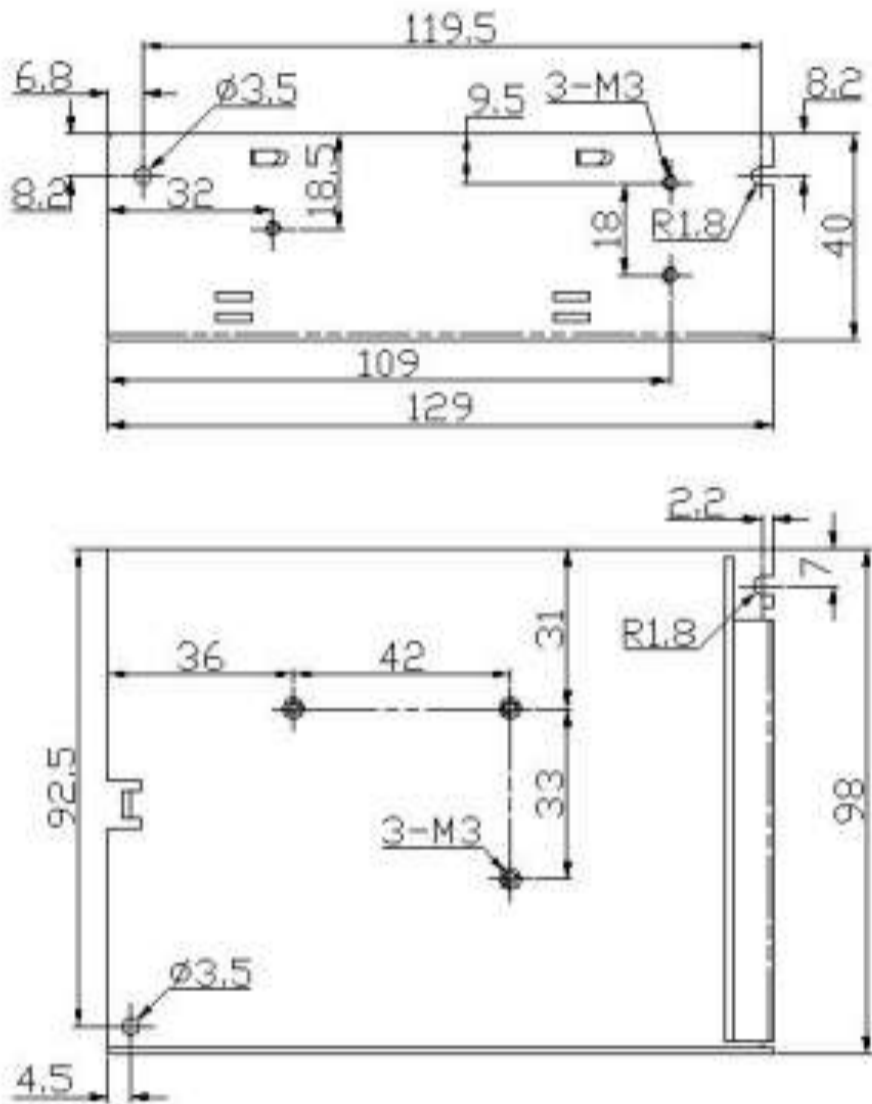
注：1、纹波噪声测试方法：使用一根 12” 双绞线，在终端并联 0.1uF 和 47uF 电容，在 20MHz 带宽下测试。

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 MechanicalData



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.