

# Jewinda DC/DC 整机工控电源

## JWDK 整机工控电源系列--75W 三路输出

JWDK Switching Power Supply Series--75W Triple Output

### 典型性能 Typical Performance

- ◆ 外形尺寸: 160\*98\*40 (mm)  
Dimension: 100\*584\*31 (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°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	标称 12V: Nominal voltage12V	9.5~18VDC
	标称 24V Nominal voltage24V	18~36VDC
	标称 48V Nominal voltage48V	36~72VDC
	标称 110V Nominal voltage110V	72~144VDC

### 输出特性 Output Features

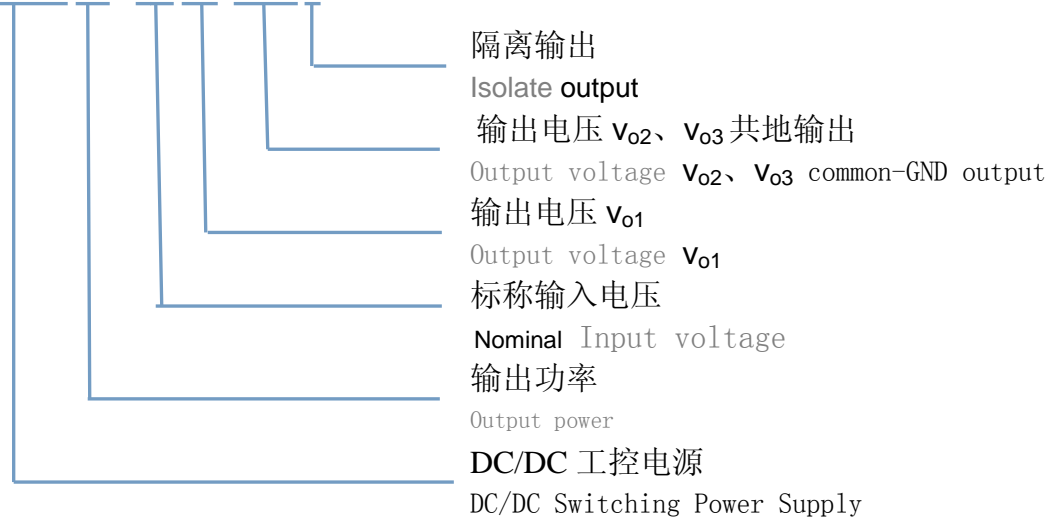
输出电压精度 Voltage tolerance	标称电压 Nominal voltage	$V_{O1} \leq \pm 1\%$ (3.3V、5V $\leq \pm 2\%$ ), $V_{O2}$ 、 $V_{O3} \leq \pm 5\%$
电压调整率 Line regulation (full load)	输入电压从低端到高端变化 Change of input voltage from lowend to highend	$V_{O1} \leq \pm 0.5\%$ $V_{O2}$ 、 $V_{O3} \leq \pm 1.5\%$
负载调整率 Load regul	20%~100%负载变化 20%~100% Load change	$V_{O1} \leq \pm 0.5\%$ , $V_{O2} \leq \pm 3\%$ , $V_{O3} \leq \pm 5\%$
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
效率 Efficiency	输入标称电压、满载 Input rated voltage、 Full load	82% (典型值) 82%(typical)
过冲幅度 Overshoot	25%额定负载变化 25% rated load change	$\leq 25\mu\text{S}$
启动时间 Rise time	输入标称电压、满载 Input rated voltage、 Full load	800mS (典型值) 800ms (typical)
保持时间 Hold up time	输入标称电压、满载 Input rated voltage、 Full load	50mS (典型值) 50ms (typical)

### 一般特性 General Features

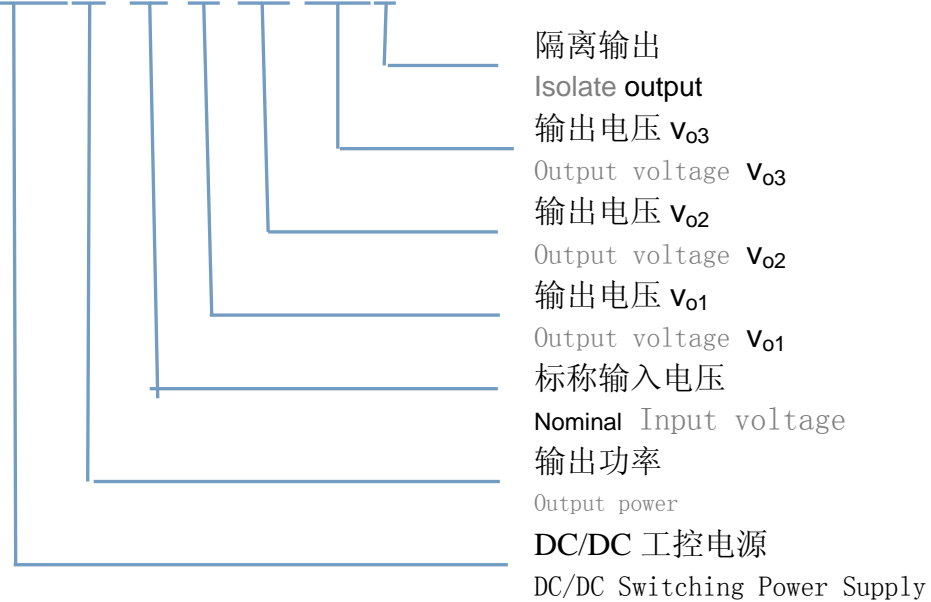
隔离耐压 Withstand voltage	输入对输出、输入对地 I/P-O/P、I/P-F/G 输出对地 O/P -F/G 输出对输出 (隔离) O/P-O/P( (1分钟, 漏电流 $\leq 5\text{mA}$ ) (1Mintute leakage current) $\leq 5\text{mA}$ )	1500VAC  500VAC  500VDC
绝缘电阻 Isolation resistance	500V	$\geq 50\text{M}\Omega$
MTBF	环境 25°C Environment 25°C	$2.0 \times 10^5 \text{Hrs}$
工作温度 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

**JWDK75- 24 S5 D12I**



**JWDK75- 24 S5 S12 S24 I**



**产品选型** Product Selection Table

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
JWDK75-12S5D5I	9.5~18V	+ 5V	0.6~10.0A	±2%	80mV	76%
		+5V	0.2~3.0A	±5%	100mV	
		-5V	0.2~2.0A	±5%	100mV	
JWDK75-12S5D12I		+5V	0.6~5.0A	±2%	80mV	80%
		+12V	0.2~3.0A	±6%	120mV	
		-12V	0.1~0.4A	±6%	120mV	
JWDK75-12S5D15I		+ 5V	0.6~6.0A	±2%	80mV	82%
		+ 15V	0.2~ 2.5A	±6%	150mV	
		-15V	0.1~0.5A	±6%	150mV	
JWDK75-12S12D5I	+12V	0.5~5.0A	±1%	120mV	78%	
	+5V	0.2~2.0A	±5%	100mV		
	-5V	0.1~ 1.0A	±5%	100mV		
JWDK75-12S24D5I	+24V	0.5~2.5A	±1%	150mV	79%	
	+5V	0.2~ 2.0A	±5%	100mV		
	-5V	0.1~1.0A	±5%	100mV		
JWDK75-12S5S12S24I	+5V	0.5~5.0A	±2%	80mV	82%	
	+12V	0.1~1.0A	±6%	120mV		
	+24V	0.1~1.5A	±6%	200mV		
JWDK75-12S5S12S-5I	+ 5V	0.5~7.0A	±2%	80mV	78%	
	+12V	0.2~ 3.0A	±6%	120mV		
	-5V	0.1~1.0A	±5%	100mV		
JWDK75-24S5D5I	18~36V	+ 5V	0.6~10.0A	±2%	80mV	77%
		+5V	0.2~3.0A	±5%	100mV	
		-5V	0.2~2.0A	±5%	100mV	
JWDK75-2S5D12I		+5V	0.6~5.0A	±2%	80mV	79%
		+12V	0.2~3.0A	±6%	120mV	
		-12V	0.1~0.4A	±6%	120mV	
JWDK75-24S5D15I		+ 5V	0.6~6.0A	±2%	80mV	80%
		+ 15V	0.2~ 2.5A	±6%	150mV	
		-15V	0.1~0.5A	±6%	150mV	
		+12V	0.5~5.0A	±1%	120mV	

JWDK75-24S12D5I		+5V	0.2~2.0A	±5%	100mV	77%
		-5V	0.1~ 1.0A	±5%	100mV	
JWDK75-24S24D5I		+24V	0.5~2.5A	±1%	150mV	79%
		+5V	0.2~ 2.0A	±5%	100mV	
JWDK75-24S5S12S24I		+5V	0.5~5.0A	±2%	80mV	81%
		+12V	0.1~1.0A	±6%	120mV	
JWDK75-24S5S12S-5I		+24V	0.1~1.5A	±6%	200mV	77%
		+ 5V	0.5~7.0A	±2%	80mV	
JWDK75-48S5D5I		+12V	0.2~ 3.0A	±6%	120mV	76%
		-5V	0.1~1.0A	±5%	100mV	
JWDK75-48S5D12I		+ 5V	0.6~10.0A	±2%	80mV	80%
		+5V	0.2~3.0A	±5%	100mV	
JWDK75-48S5D15I		-5V	0.2~2.0A	±5%	100mV	81%
		+5V	0.6~5.0A	±2%	80mV	
JWDK75-48S12D5I		+12V	0.2~3.0A	±6%	120mV	78%
		-12V	0.1~0.4A	±6%	120mV	
JWDK75-48S24D5I		+ 5V	0.6~6.0A	±2%	80mV	80%
		+ 15V	0.2~ 2.5A	±6%	150mV	
JWDK75-48S5S12S24I		-15V	0.1~0.5A	±6%	150mV	82%
		+12V	0.5~5.0A	±1%	120mV	
JWDK75-48S5S12S-5I		+5V	0.2~2.0A	±5%	100mV	78%
		-5V	0.1~ 1.0A	±5%	100mV	
JWDK75-48S5D5I		+24V	0.5~2.5A	±1%	150mV	80%
		+5V	0.2~ 2.0A	±5%	100mV	
JWDK75-48S5D12I		-5V	0.1~1.0A	±5%	100mV	76%
		+5V	0.5~5.0A	±2%	80mV	
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JWDK75-48S24D5I		-5V	0.1~1.0A	±5%	100mV	78%
		+ 5V	0.6~10.0A	±2%	80mV	
JWDK75-48S5S12S24I		+5V	0.2~3.0A	±5%	100mV	76%
		-5V	0.2~2.0A	±5%	100mV	
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		+5V	0.2~2.0A	±5%	100mV	
JWDK75-48S5S12S-5I		-5V	0.1~ 1.0A	±5%	100mV	78%
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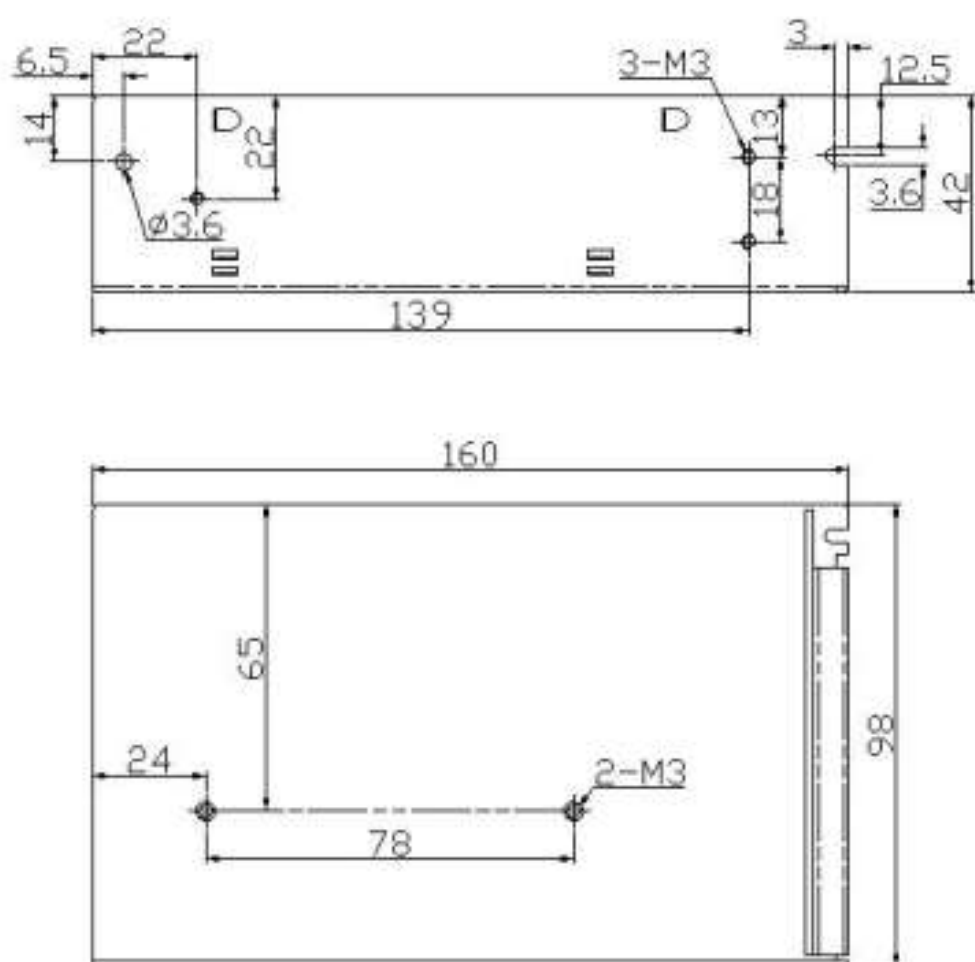
注：1、纹波噪声测试方法：使用一根12”双绞线，在终端并联0.1uF和47uF电容，在20MHz带宽下测试。

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.