



## DC/DC 铁路机车整机工控电源

### JWDKR 铁路机车整机工控电源--150W 单路输出

JWDKR Railway locomotive Switching Power Supply-- 150W Single Output

#### 典型性能 Typical Performance

- ◆外形尺寸: 200\*98\*40 (mm)  
Dimension: 200\*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℃长寿命电解电容  
105℃ long life electrolytic capacitors
- ◆金属外壳, 八面屏蔽,  
Metal shell, Eight face shield
- ◆安规: EN60950  
Ann rules: EN60950



#### 输入特性 Input Features

输入电压范围 Input voltage range	标称 110V Nominal voltage 110V 标称 110V (W) Nominal voltage 110V(W)	66~160VDC  45~135VDC
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#### 输出特性 Output Features

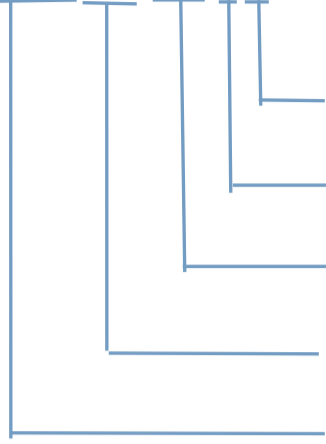
输出电压精度 Voltage tolerance	标称电压 Nominal voltage	$\leq \pm 1\%$ (3.3V、5V $\leq \pm 2\%$ )
电压调整率 Line regulation (full load)	输入电压从低端到高端变化 Change of input voltage from lowend to highend	$\leq \pm 0.5\%$
可调范围 Adjustment range		$\pm 10\%$
负载调整率 Load regulation	20%~100%负载变化 20%~100% Load change	$V_O \leq \pm 0.5\%$
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 over circuit 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	$\leq 500\mu\text{S}$
	$\Delta V_{O1} / V_{O1}$	$\leq \pm 4.0\%$

#### 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		自然冷却 Convection

**命名方式** Naming Rules

JWDKR150-110 S 5



输出电压  
Output voltage  
单路输出  
Single Output  
标称输入电压  
Nominal Input voltage  
输出功率  
Output power  
DC/DC 铁路机车整机工控电源  
DC/DC Railway locomotive Switching Power Supply

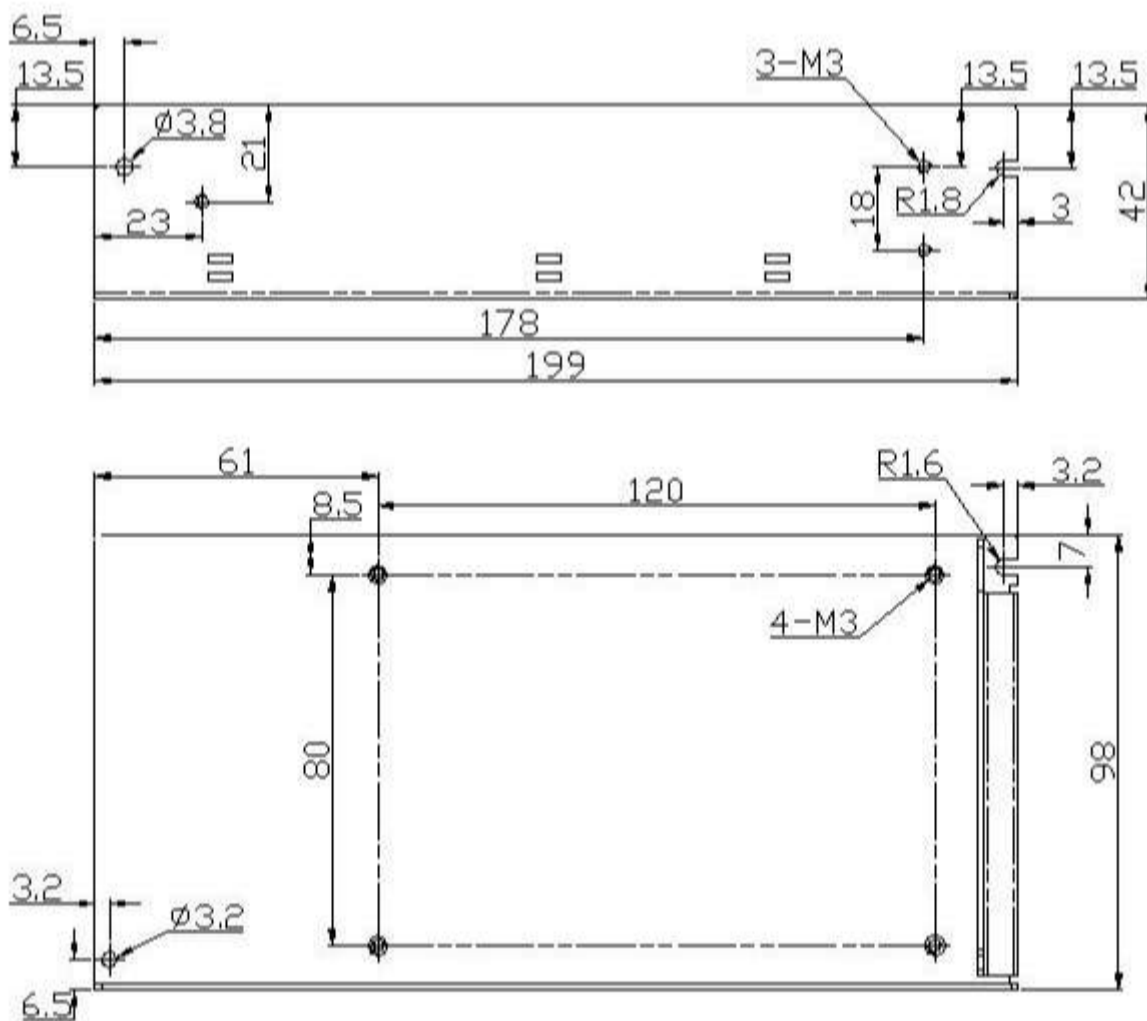
**产品选型** Product selection

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
JWDKR150--110S5	66~160V	5V	30.0A	100	77%
JWDKR150--110S12		12V	12.5A	120	81%
JWDKR150--110S15		15V	10.0A	120	82%
JWDKR150--110S24		24V	6.3A	150	85%
JWDKR150--72S5	45~135V	5V	30.0A	100	77%
JWDKR150--72S12		12V	12.5A	120	80%
JWDKR150--72S15		15V	10.0A	120	81%
JWDKR150--72S24		24V	6.3A	150	84%

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，请以实物标签上的标注为准。  
Note: Power mechanical data does not match with the hand book, please refer to the actual item.