

Jewinda DC/DC 新能源高压电源模块

JWDX--5W 新能源高压电源模块双路输出系列

JWDX--5W New energy high input power supply module dual output series

典型性能 Typical Performance

- ◆外形尺寸: 72*50*28 (mm)
Dimension: 72*50*28 (mm)
- ◆宽输入电压范围 (6:1 和 10: 1 输入电压范围)
Wide range input voltage (6: 1 & 10: 1 range input voltage)
- ◆105°C长寿命电解电容
105°C long life electrolytic capacitors
- ◆高效率、高功率密度、低纹波
High efficiency、High power density、Low ripple & noise
- ◆黑金属外壳, 八面屏蔽, 通孔安装
Black metal shell, Eight face shield, Hole is installed
- ◆安规: EN60950
Ann rules: EN60950



输入特性 Input Features

输入电压范围 Input voltage range	标称 700V Nominal voltage 700V 标称 1100V Nominal voltage 24V	200~1200VDC 200~2000VDC
输入冲击电流 Inrush current	200V 600V 1200V 2000V	≦ 7A ≦ 20A ≦ 35A ≦ 50
输入欠压保护 Input under-voltage protection	欠压保护点 Under-voltage protection point	175~185V

输出特性 Output Features

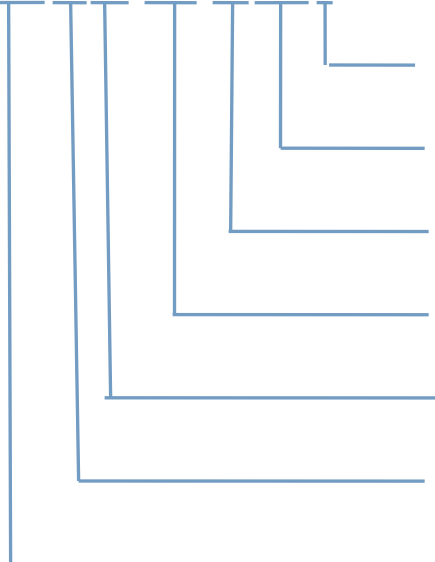
输出电压精度 Voltage tolerance	标称电压 Nominal voltage	$V_{o1} \leq \pm 1\%$ ($5V \leq \pm 2\%$), $V_{o2} \leq \pm 3\%$
电压调整率 Line regulation (full load)	输入电压从低端到高端变化 Change of input voltage from lowend to highend	$V_{o1} \leq \pm 0.5\%$, $V_{o2} \leq \pm 1.5\%$
负载调整率 Load regul	20%~100%负载变化 20%~100% Load change	$V_{o1} \leq \pm 0.5\%$, $V_{o2} \leq \pm 3\%$
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 power, auto recovery
短路保护 Short Circuit Protection		长期, 自恢复 Long-term, auto recovery

一般特性 General Features

隔离耐压 Withstand voltage	输入对输出 (1分钟, 漏电流 $\leq 5\text{mA}$ I/P-O/P (1Mintute, leakage current) $\leq 5\text{mA}$)	4000VDC
绝缘电阻 Isolation resistance	1000V	$\geq 100\text{M}\Omega$
MTBF	环境 25°C Environment 25°C	$2.0 \times 10^5 \text{Hrs}$
开关频率 switching frequency		65KHz
工作温度 Operating temperature	55°C以上降额使用 Above 55°C derating make	-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

JWD X 5 -700 S5S12I



- 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
- 新能源产品
New enrgy product
- DC/DC 电源模块
DC/DC power module

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
JWDX5-700S5S12I	200~1200V	+5V	0.05~0.50A	±2%	80	76%
JWDX5-700S5S15I		+12V	0.02~0.21A	±3%	100	
JWDX5-700S5S24I		+5V	0.05~0.50A	±2%	80	78%
JWDX5-700S12S5I		+15V	0.01~0.17A	±3%	120	
JWDX5-700S12S5I		+5V	0.05~0.50A	±2%	80	79%
JWDX5-1100S5S12I		+12V	0.03~0.33A	±2%	100	
JWDX5-1100S5S15I		+5V	0.02~0.20A	±3%	80	76%
JWDX5-1100S5S15I		+12V	0.02~0.21A	±3%	100	
JWDX5-1100S5S24I	+5V	0.05~0.50A	±2%	80	77%	
JWDX5-1100S5S24I	+15V	0.01~0.17A	±3%	120		
JWDX5-1100S12S5I	+5V	0.05~0.50A	±2%	80	78%	
JWDX5-1100S12S5I	+24V	0.01~0.11A	±3%	150		
JWDX5-1100S12S5I	+12V	0.03~0.33A	±2%	100	79%	
JWDX5-1100S12S5I	+5V	0.02~0.20A	±3%	80		

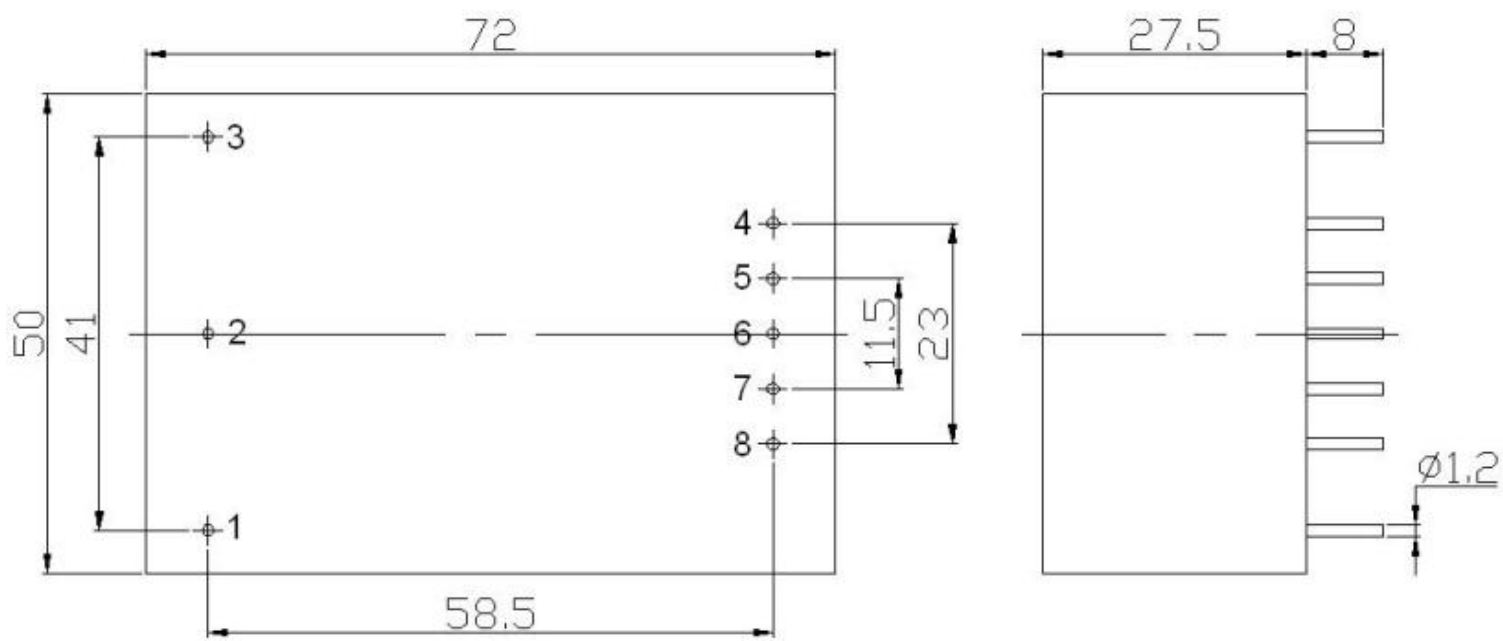
注：因篇幅有限，以上只是部分产品列表，若需列表以外产品，请与本公司销售部联系。

输出纹波噪声（峰-峰值）的测量，请参照模块测试说明中介绍的方法进行。

Note: 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.

Output ripple noise measurement (peak - peak), please refer to the module test notes method is introduced.

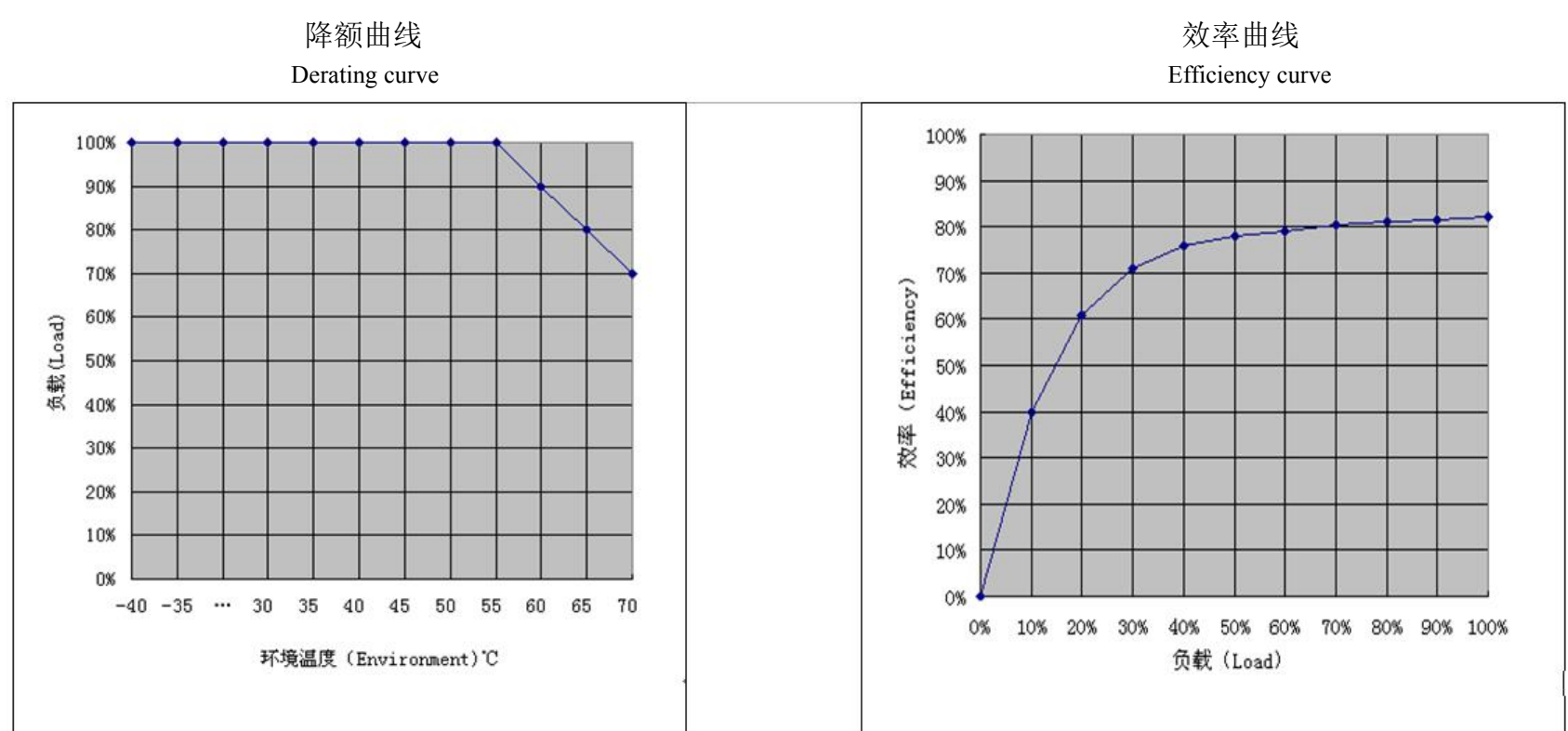
封装尺寸图 Mechanical Data



管脚定义 Pin Assignments

P1	P2	P3	P4	P5	P6	P7	P8
FG	V_{in+}	V_{in-}	V_{O2+}	GND2	NP	V_{O1+}	GND1

典型曲线 Typical curve



纹波噪声测试: (靠测法 20MHz)

测试方法：纹波&噪声用示波器来测试。测试模块噪声时为了避免引入额外噪声，须用示波器探头直接接触模块输出引脚

