

Jewinda DC/DC 新能源高压电源模块

JWDX--35W 新能源高压电源模块双路输出系列

JWDX--35W New energy high input power supply module dual output series

典型性能 Typical Performance

- ◆外形尺寸: 92*52*28 (mm)
Dimension: 92*52*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	≦ 15A ≦ 45A ≦ 90A ≦ 150A
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

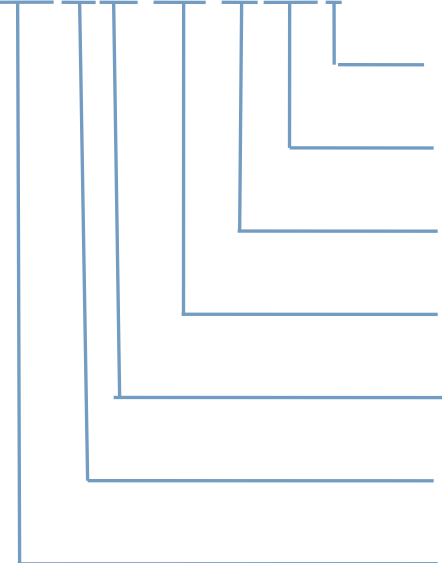
输出电压精度 Voltage tolerance	标称电压 Nominal voltage	$V_{o1} \pm 1\%$ ($5V \pm 2\%$), $V_{o2} \pm 3\%$
电压调整率 Line regulation (full load)	输入电压从低端到高端变化 Change of input voltage from lowend to highend	$V_{o1} \pm 0.5\%$, $v_{o2} \pm 1.5\%$
负载调整率 Load regul	20%~100%负载变化 20%~100% Load change	$V_{o1} \pm 0.5\%$, $v_{o2} \pm 3\%$
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 X35-700 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	
JWDX35-700S5S12I	200~1200V	+5V	0.50~5.00A	±2%	100mV	79%	
		+12V	0.08~0.83A	±3%	120mV		
JWDX35-700S5S15I		+5V	0.40~4.00A	±2%	100mV	80%	
		+15V	0.10~1.00A	±3%	120mV		
JWDX35-700S5S24I		+5V	0.40~4.00A	±2%	100mV	81%	
		+24V	0.06~0.63A	±3%	150mV		
JWDX35-700S12S5I		+12V	0.20~2.50A	±1%	120mV	82%	
		+5V	0.10~1.00A	±5%	100mV		
JWDX35-1100S5S12I		200~2000V	+5V	0.50~5.00A	±2%	100mV	79%
			+12V	0.08~0.83A	±3%	120mV	
JWDX35-1100S5S15I	+5V		0.40~4.00A	±2%	100mV	79%	
	+15V		0.10~1.00A	±3%	120mV		
JWDX35-1100S5S24I	+5V		0.40~4.00A	±2%	100mV	80%	
	+24V		0.06~0.63A	±3%	150mV		
JWDX35-1100S12S5I	+12V		0.20~2.50A	±1%	120mV	81%	
	+5V		0.10~1.00A	±5%	100mV		

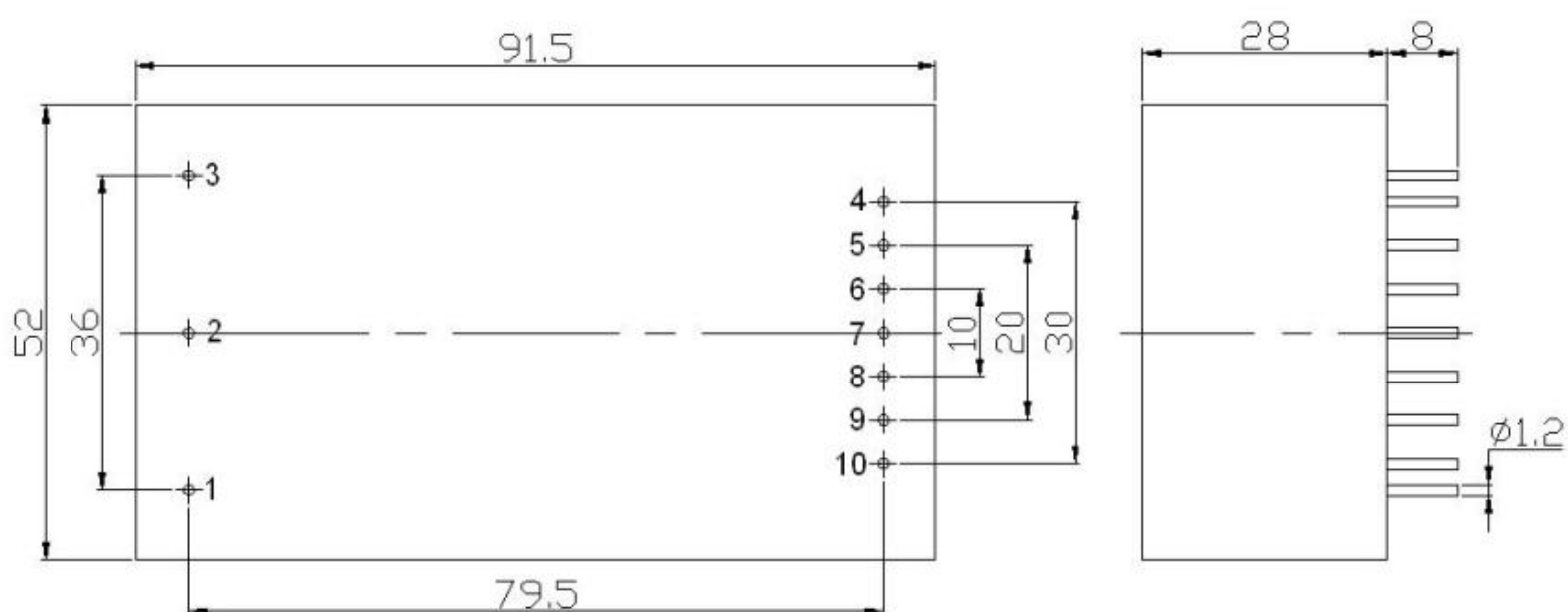
注：因篇幅有限，以上只是部分产品列表，若需列表以外产品，请与本公司销售部联系。

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

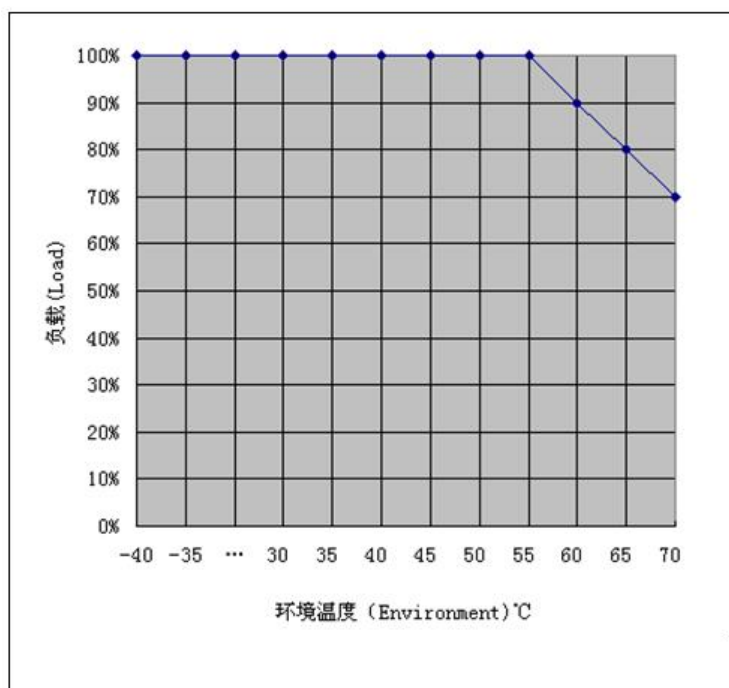
P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
FG	V_{in+}	V_{in-}	V_{O2+}	NP	GND2	NP	V_{O1+}	NP	GND1

注：电源模块的各管脚定义如与选型手册不符，应以实物标签上的标注为准。

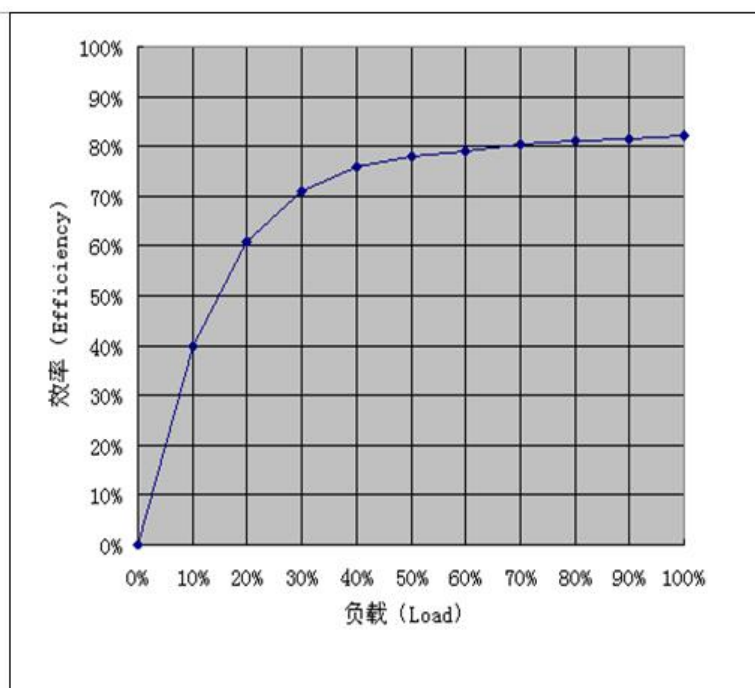
Note: The power modules such as the definition of the pin does not match with the hand book, please refer to the actual item.

典型曲线 Typical curve

降额曲线
Derating curve



效率曲线
Efficiency 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

