



DC/DC 新能源高压电源模块

JWDX--10W 新能源高压电源模块单路系列

JWDX--5W New energy high input power supply module single 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)
- ◆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

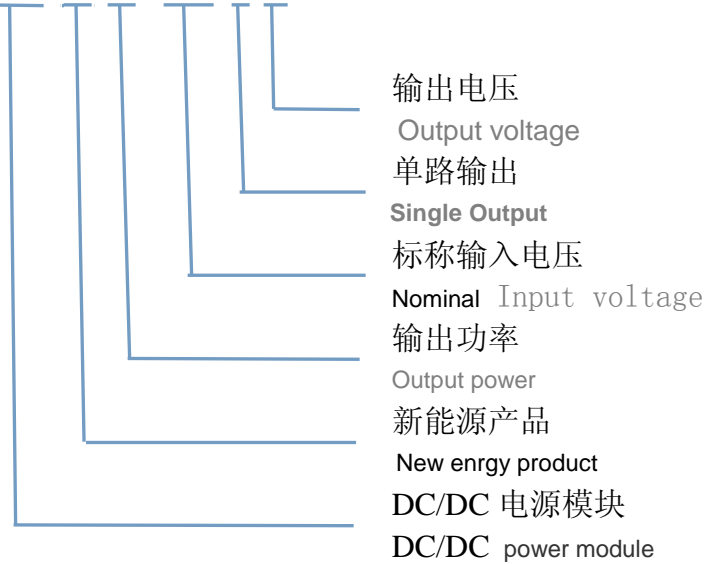
输出电压精度 Voltage tolerance	标称电压 Nominal voltage	≦ ±1% (5V ≦ ±2%)
电压调整率 Line regulation (full load)	输入电压从低端到高端变化 Change of input voltage from lowend to highend	≦ ±0.5%
负载调整率 Load regul	20%~100%负载变化 20%~100% Load change	$V_o \leq \pm 0.5\%$
温度系数 Temperature coefficient		±0.02%/°C
过流保护 Output overcurrent 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
输出过压保护 Output over voltage protection	输出 5V Output 5V 输出 12V Output 12V 输出 24V Output 24V	≦ 7.5V ≦ 15V ≦ 27V

一般特性 General Features

隔离耐压 Withstand voltage	输入对输出 (1 分钟, 漏电流 ≦ 5mA I/P-O/P (1 Mintute, leakage current) ≦ 5mA)	4000VDC
绝缘电阻 Isolation resistance	1000V	≧ 100MΩ
MTBF	环境 25°C Environment 25°C	2.0*10 ⁵ 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

JWDX 10 -700 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
- 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
JWDX10-700S5	200~1200V	5 V	2.00A	80	75%
JWDX10-700S12		12V	0.84A	100	78%
JWDX10-700S24		24V	0.42A	120	82%
JWDX10-1100S5	200~2000V	5 V	2.00A	80	75%
JWDX10-1100S12		12V	0.84A	100	78%
JWDX10-1100S24		24V	0.42A	120	82%

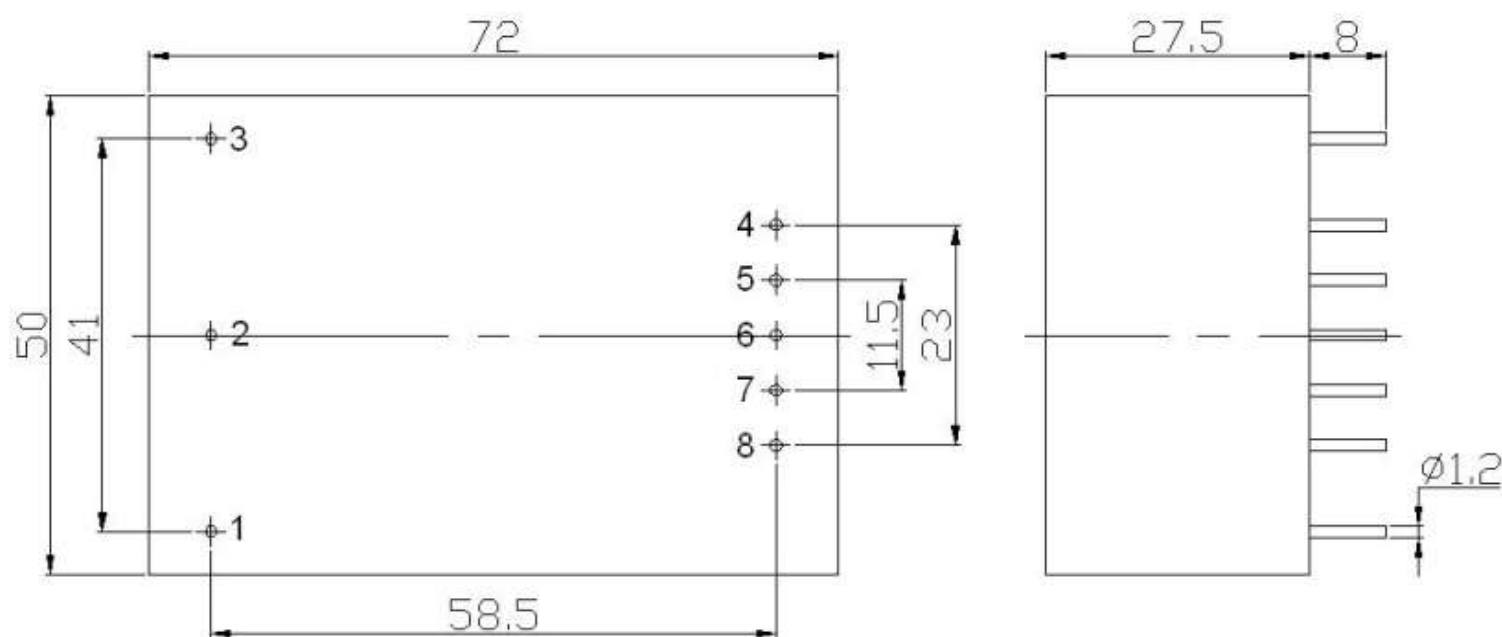
注：因篇幅有限，以上只是部分产品列表，若需列表以外产品，请与本公司销售部联系。

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

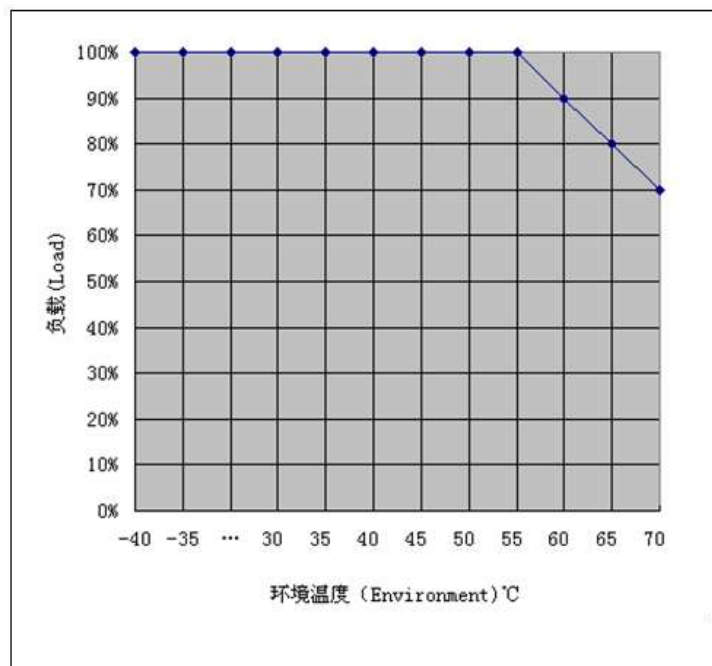


管脚定义 Pin Assignments

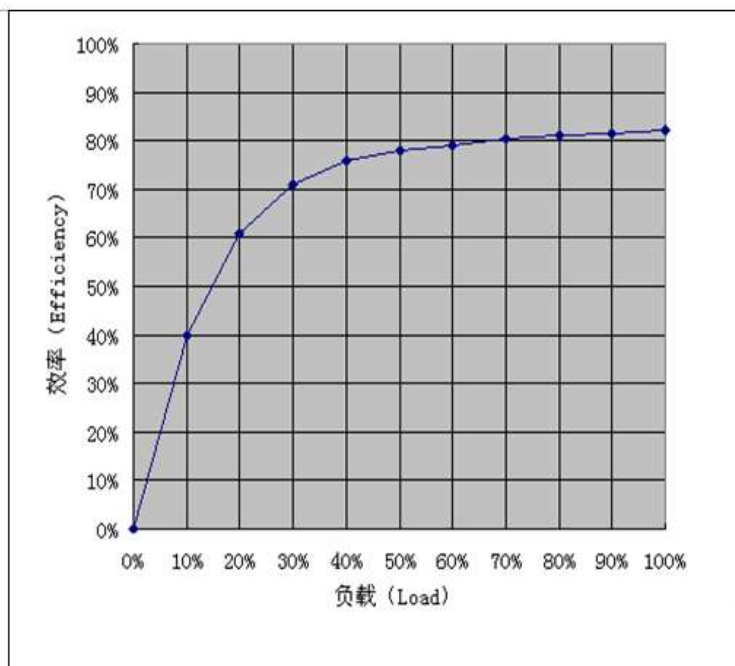
P1	P2	P3	P4	P5	P6	P7	P8
NP	V _{in} +	V _{in} -	V _O +	NP	GND	NP	GND

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

