

## JWD--50W 单路输出系列

JWD--50W single output type series

### 典型性能 Typical Performance

- ◆外形尺寸: 88.9\*63.5\*17.0 (mm)  
Dimension: 88.9\*63.5\*17.0 (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
- ◆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 12V Nominal voltage12V 标称 24V Nominal voltage24V 标称 48V Nominal voltage48V 标称 110V Nominal voltage110V	9.5~18VDC  18~36VDC  36~72VDC  72~144VDC
遥控端(低电平遥控) Remote ON/OFF(Low level remote)	ON 高电平或悬空工作 Hight level or vacant-Turn on OFF 低电平或接地关断 Low level or connect ground-Turn off	3.5Vdc ~ +Vin  ≤0.3Vdc
输入欠压保护 Input undervoltage protection	低于低端输入电压, 电源关断输出, 自恢复 Lower than the low-inputvoltage protection Self-furbish	

### 输出特性 Output Features

输出电压精度 Voltage tolerance	标称电压 Nominal voltage	≤±1% (3.3V、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	$V_O \leq \pm 0.5\%$
输出电压调节 Voltage adjust	TRIM 标称输出电压 Nominal output TRIM	±10% 可调 ±10% Adjustable
纹波噪声 Ripple&Noise	20M 带宽 20M Bandwidth	≤1%
温度系数 Temperature coefficient		±0.02%/°C
过流保护 Output overcircuit 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
启动延迟时间 Turn-on delay time	典型值 Typical value	≤200mS
过冲幅度 Overshoot	25%额定负载变化 25% rated load change	≤500μ S
	$\Delta V_{O1} / V_{O1}$	≤±4.0%

### 一般特性 General Features

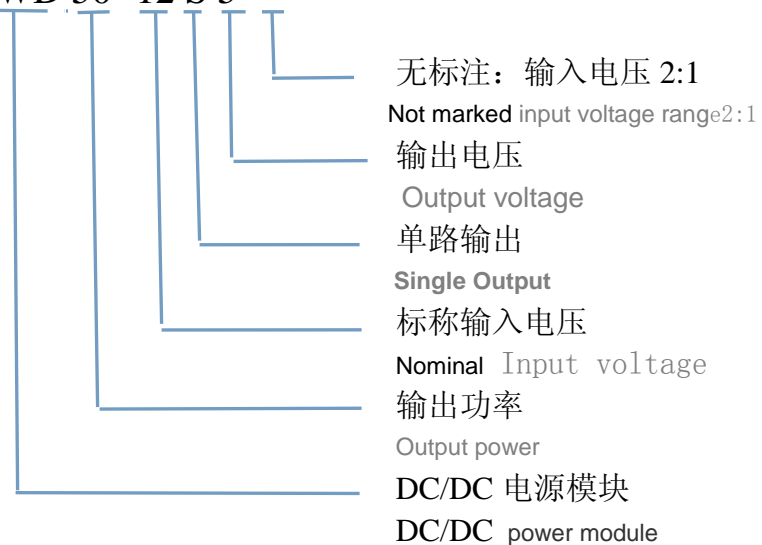
隔离耐压 Withstand voltage	输入对输出 I/P-O/P (1分钟, 漏电流≤5mA) (1Mintute ,leakage current)≤5mA)	1500VDC
绝缘电阻 Isolation resistance	500V	≥100MΩ
MTBF	环境 25°C Environment 25°C	2.0*10 <sup>5</sup> Hrs
开关频率 switching frequency		300KHz
最大壳温 The highest shell temperature	工作环境温度较高时, 需加装辅助散热措施, 确保模块表面温度低于 95°C When workingenvironment temperature is higher, need to add auxiliary colling measures, to ensure that the surface temperature below 95°C	+95°C
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		-45°C~105°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

注：模块的输出端可以外加电解电容，但过大的容量和过低的 ESR 值可能会引起模块工作的不稳定，或造成限流点变低，推荐输出电容值为 100 $\mu$  F/A，此处的电流指额定输出电流。

Note: The output end of the module can be coupled with electrolytic capacitor, but too much capacity and low ESR value may cause the instability of the module, or current limit points of lower output capacitance of the recommended value of 100 u F/A, the current here refers to the rated output current.

### 命名方式 Naming Rules

JWD 50 -12 S 5



### 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 $I_o$	纹波噪声 R & N $V_{(P-P)mV}$	效率 Efficiency
JWD50-12S5	9.5~36	5	10.00	50	80%
JWD50-12S12		12	4.17	100	83%
JWD50-12S15		15	3.33	100	84%
JWD50-12S24		24	2.08	120	85%
JWD50-24S5	18~36	5	10.00	50	80%
JWD50-24S12		12	4.17	100	83%
JWD50-24S15		15	3.33	100	84%
JWD50-24S24		24	2.08	120	86%
JWD50-48S5	36~72	5	10.00	50	81%
JWD50-48S12		12	4.17	100	83%
JWD50-48S15		15	3.33	100	84%
JWD50-48S24		24	2.08	120	86%
JWD50-110S5	72~144	5	10.00	50	81%
JWD50-110S12		12	4.17	100	83%
JWD50-110S15		15	3.33	100	84%
JWD50-110S24		24	2.08	120	86%

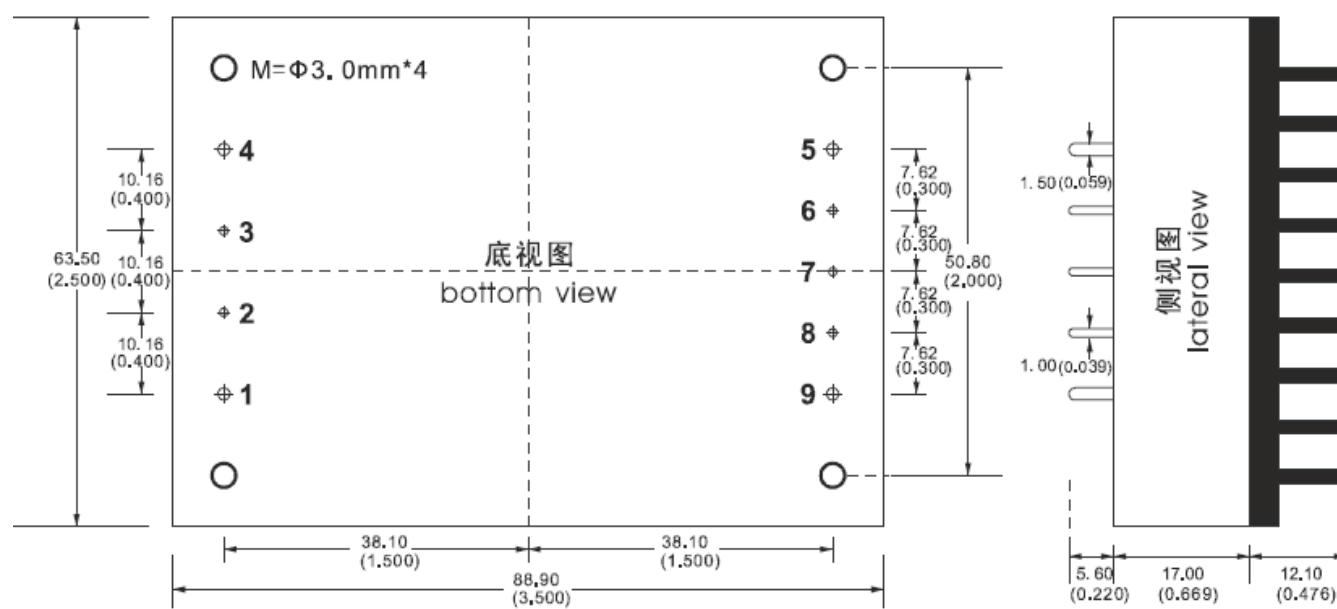
注：因篇幅有限，以上只是部分产品列表，若需列表以外产品，请与本公司销售部联系。

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

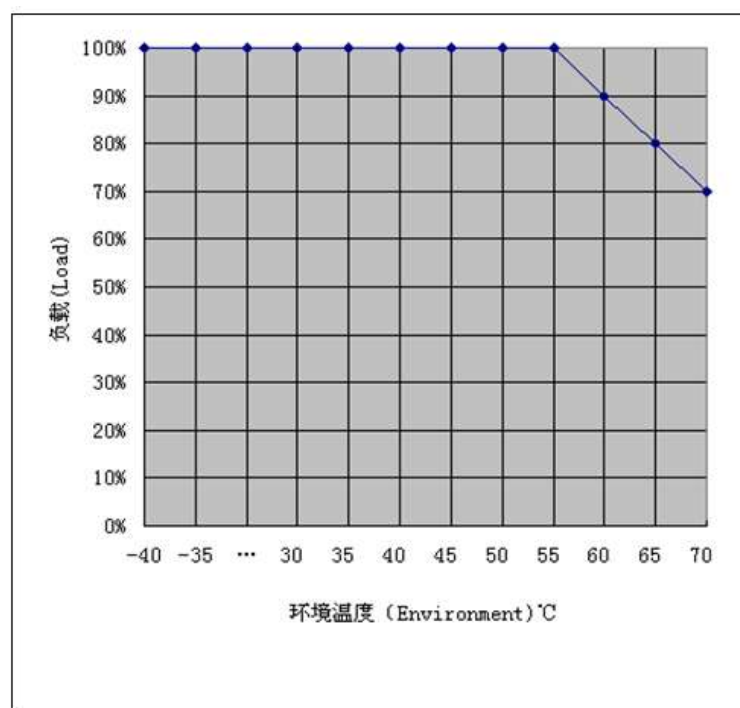
P1	P2	P3	P4	P5	P6	P7	P8	P9
$V_{in-}$	CNT	CASE	$V_{in+}$	$V_{out+}$	+S	TRIM	-S	GND

注：电源模块的外形尺寸和管脚定义如与选型手册不符，请以实物实际尺寸为准。

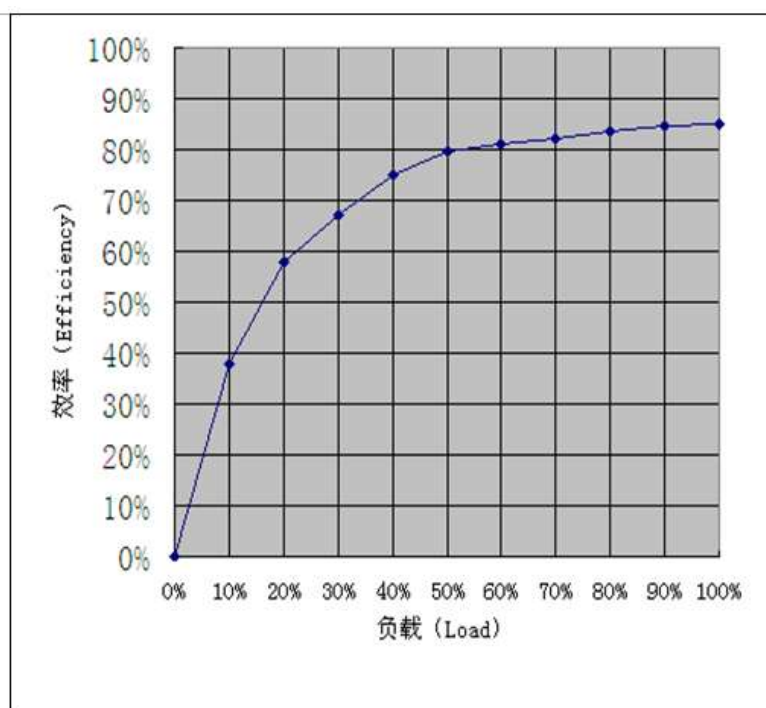
Note: Dimensions and pin definitions of power module such as inconsistent with the hand book, please in kind prevail actual size

## 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

