

■ 特性 Features:

- 可通过开关选择输入电压范围: 90-132Vac/180-264Vac
- The input voltage range can be selected through the switch: 90-132Vac/180-264Vac
- 工作温度高达 70℃
Operating temperature up to 70℃
- 4242Vdc 高隔离电压
4242Vdc high isolation voltage
- 输出低纹波噪声
Low ripple & noise output
- 电源输出 LED 指示灯
PSU output LED indicator
- 输出电压值可调
The output voltage is adjustable
- 自然风冷
Convection cooling
- 双路直流隔离输出
Double circuit dc isolation output
- 输出短路、过流、过压、过温保护功能
With OSP、OCP、OVP、OTP functions
- 满足 3000M 海拔应用^(备注 3)
Meet 3000M altitude application ^(Note 3)
- 100%高温老化
100% high temperature burn-in test
- 满足 5G 振动测试
Meet 5G vibration test
- 符合 IEC/EN/UL62368、GB4943、GB9254 等认证标准
Comply with IEC/EN/UL62368, GB4943, GB9254 Etc.certification standards
- 高可靠性, 基板三防漆工艺
High reliability, conformal coating process for substrates(optional)
- 质保期: 3 年
Warranty: 3Years

**■ 应用 Applications:**

- 工业控制或自动化装置
Industrial control or automation devices
- 电子仪器, 设备和装置
Electronic instruments, equipment and devices
- 机械和电气设备
Mechanical and electrical equipment
- 老化设备
Burn-in equipment

■ 描述 Description:

PB150AW-1224 系列是一款 150W 双路直流隔离输出 AC 转 DC 电源, 采用 115VAC 或 230VAC 输入(通过开关选择), 提供 12V, 24V 双路直流隔离输出; 30mm 极薄外型设计, 具有完整的保护功能, EMC 性能好, 高可靠性, 高性价比, 安全隔离等优点。产品通过 CCC/CE 认证, 符合欧盟 RoHS2.0 指令, 是一款极具性价比的工业电源。

PB150AW-1224 series is a 150W double circuit dc isolation output AC to DC PSU, Adopting the input of 115VAC or 230VAC(select by switch), The whole series provides 12V, 24V double circuit dc isolation output; Advantages such as 30mm extremely thin design; With complete protection function; Excellent EMC performance, high reliability, high cost performance, security isolation and so on. which has passed the CCC/CE certification and the Eu RoHS2.0 instruction.; It is a cost-effective industrial PSU.

选型规格 Model Selection

功率段 POWER	产品型号 MODEL	输出功率 Pout	输入电压 Vin	输出电压 Vout	输出电流 Iout	效率(%) EFF.	安规认证 SAFETY
150W	GW-PB150AW-1224	150W	90~132Vac / 180~264Vac	12V	5A	89.6	CCC/CE
				24V	6A		

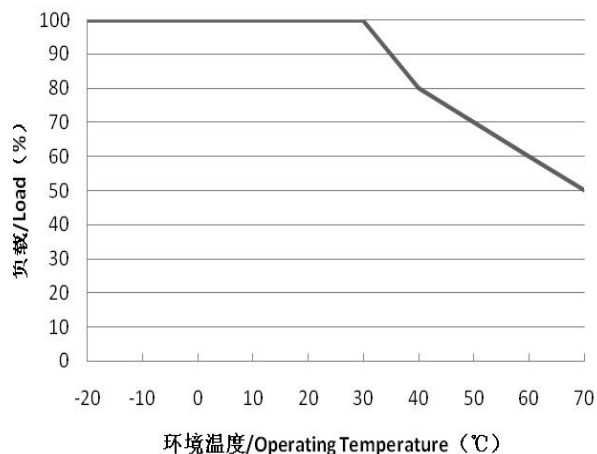
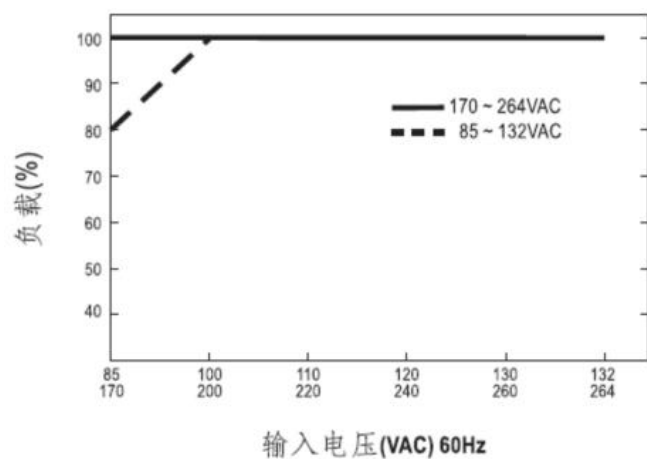
*其它安规需求认证中 Other safety requirements are pending certification.

通用参数 General Specification

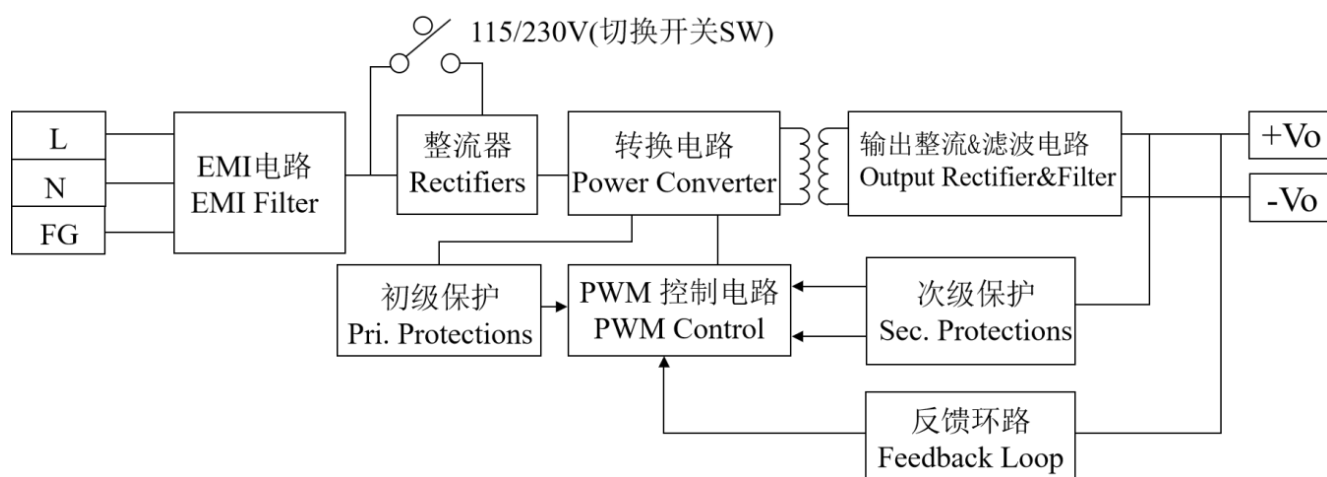
型号 MODEL		PB150AW-1224
输出 Output	输出电压 Output Voltage	12V/24V
	额定电流 Output Current	5A(12V), 6A(24V)
	电流范围 Current Range	0.5~5A(12V), 0.8~6A(24V)
	额定功率 Output Power	150W
	纹波与噪声 Ripple and Noise(备注6)	120mV(12V), 400mV(24V)
	电压调整范围 Adj-voltage range	11.4V~12.6V(12V), 22.8V~25.2V(24V)
	稳压精度 Voltage stability(备注2)	±5.0%
	线性调整率 Line regulation	±0.5%(12V), ±1%(24V)
	负载调整率 Load regulation	±5.0%
	保持时间 Hold-up time	16ms (230Vac/80% load)
	启动时间 Startup time	≤3s (额定输入电压 Rated input voltage)
输入 Input	电压范围 Voltage Range	90~132Vac / 180~264Vac (需通过开关选择, 开关设置在 230V Select by switch, switch on 230Vac)
	频率范围 Frequency Range	47~63Hz
	输入电流 Input Current	4A / 100 Vac 输入, 满载
	浪涌电流 Inrush Current	60A / 115Vac; 100A / 230Vac, 25℃ Cold start
	效率 Efficiency	89.6%
保护 Protections	过电压 OVP	34V(24V)
	过负载 OCP	5.5~8.0A(12V), 6.7~13.0(24V)
	过温度 OTP	打嗝模式, 异常条件移除后可自动恢复 Hiccup mode, The PSU can be Auto-recovered when the fault is removed

	短路 OSP	打嗝模式，异常条件移除后可自动恢复 Hiccup mode, The PSU can be Auto-recovered when the fault is removed
环境 Environmental	工作温度 Operating Temperature	-20 ~ +70℃ 请参考降额曲线 Refer to the derating curve
	工作湿度 Operating Humidity	5% ~ 95% RH, 无冷凝 Non-condensing
	存储温度 Storage Temperature	-40 ~ +85℃
	存储湿度 storage humidity	5% ~ 95% RH, 无冷凝 Non-condensing
安规 Safety	安全规范 safety standards	CCC/CE EN61558、EN62477、GB9254、GB4943
	耐压 Hi-pot	I/P - O/P: 3000Vac/4242Vdc; I/P - FG: 1700Vac/2500Vdc;
	绝缘阻抗 Insulating resistance	≥100Mohm (500VDC / 25℃ / 90% RH)
	漏电流 Leakage Current	<3.5mA / 240Vac
	静电放电 ESD	IEC/EN61000-4-2, CLASS B; Contact1±8KV / Air ±15KV ;
	电磁兼容 EMC	CISPR 22 / EN55032, CLASS B(在 AC/DC 输入口提供高频滤波 (装在机壳内测试))Provide high frequency filtering in ac/dc input(install inside the casing))
其它 Others	质保期 Warranty	3Years
	MTBF	Telcordia SR-332 (Bellcore) ≥500K hrs
	尺寸 SIZE	159.0mm * 97mm * 30mm (L * W * H)
	包装 Packing	0.475KG+/-10%; 18PCS/Box
备注 Remark	1. 如未特别说明，所有规格参数均在输入为 230Vac，额定负载，25℃环境温度下进行测量，详见测试报告。 Unless otherwise specified, all spec. are measured at 230Vac, rated load, Ta=25℃, Please refer to the test report. 2. 输出电压的精度包含设定误差、线性调整率和负载调整率 The voltage stability includes setting error, linear regulation and load regulation 3. 当产品工作于海拔 2000m 以上时，环境温度需降额 5℃/1000m When the power supply is working above an altitude of 2000m, the Ta must be derated by 5℃/1000m 4. 此电源不符合 EN61000-3-2 标准中规定的谐波电流要求，如应用无谐波电流要求或可自行解决谐波电流问题，可选型本产品。 This power supply don't meet the harmonic requirements in EN61000-3-2 standard. It can be selected if no harmonic requirements are applied or this problems can be solved by themselves. 5. 产品在任何稳态工作条件下，总功率不应超出标示的额定功率且输出电流不应超出额定输出电流。 Under any operating conditions, the total power should not exceed the rated power indicated and the output current should not exceed the rated output current. 6. 纹波和噪声的测试方法采用双绞线连接，输出并联 47uF 低 ESR 电容和 0.1uF 陶瓷电容，在 20MHz 带宽下进行量测。 The test method of ripple and noise is connected by twisted pair, the output is in parallel with 47uF low ESR capacitor and 0.1uF ceramic capacitor, and the measurement is carried out at 20MHz bandwidth. *产品免责声明：详细请参阅网址 https://www.gwpst.com Disclaimer: Details please refer to https://www.gwpst.com	

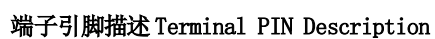
■ 降额曲线 Derating Curve



■ 方框图 Block Diagram



■ 结构尺寸 Shape Size



孔编号	推荐螺丝型号	最大穿孔深度 L	推荐安装扭矩
①	M3	3.5mm	4~6Kgf.cm

2025-06-26