

■ 特性 Features:

- 输入电压范围: 90–264Vac/127–370Vdc
The input voltage : 90–264Vac/127–370Vdc
- 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
- 自然风冷散热
Cooling by free air convection
- 输出短路、过流、过压、过温保护功能
With OCP, OVP, OTP functions
- 满足 5000M 海拔应用 (备注 3)
Meet 5000M 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 and EN62477 Etc. certification standards
- 输出双重过压保护(可选)
Output double OVP (optional)
- 高可靠性，基板三防漆工艺(可选)
High reliability, conformal coating process for substrates (optional)

**■ 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:

ERS-150W 系列是一款 150W 单组输出 AC 转 DC 电源，100–240V 交流输入，整系列提供 5V, 12V, 15V, 24V, 36V 和 48V 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。产品符合 IEC/UL/EN/BS EN62368、EN61558、GB4943、BIS IS13252、EN62477 等国际安全法规，符合欧盟 RoHS2.0 指令，是一款极具性价比的工业电源。

ERS-150W series is a 150W single output AC to DC PSU, 100–240Vac input, The whole series provides 5V, 12V, 15V, 24V, 36V and 48V DC isolated 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. Products comply with IEC/UL/EN/BS EN62368、EN61558、GB4943、BIS IS13252、EN62477 international safety standards and EU RoHS2.0 directive; 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-ERS150W-5	80W	90–264Vac/ 127–370Vdc	5V	16A	81	CQC, CB
	GW-ERS150W-12	150W		12V	12.5A	87	
	GW-ERS150W-15	150W		15V	10A	87	
	GW-ERS150W-24	156W		24V	6.5A	88	
	GW-ERS150W-36	154.8W		36V	4.3A	90.5	
	GW-ERS150W-48	158.4W		48V	3.3A	91	

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

通用参数 General Specification

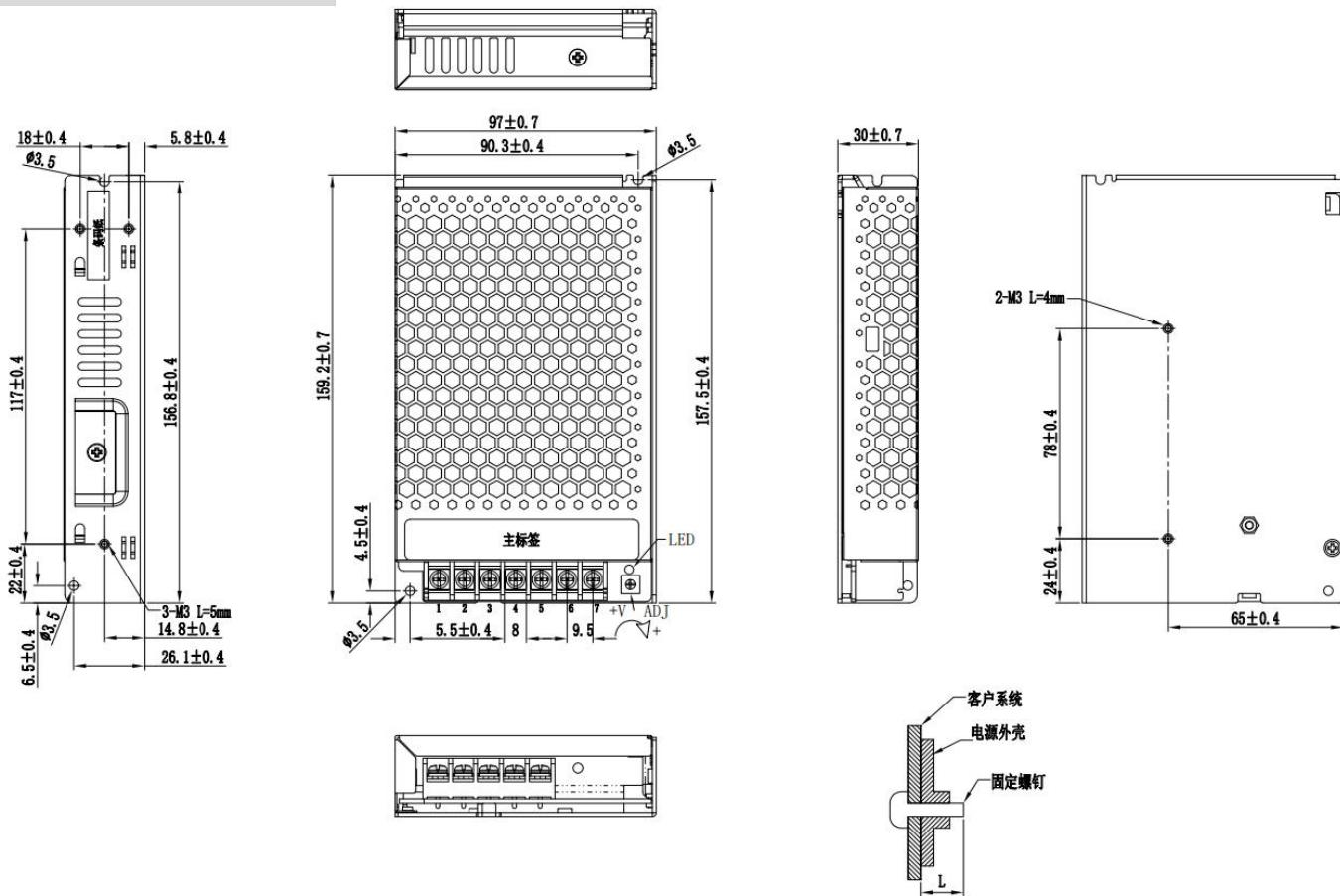
型号 MODEL		ERS150W-5	ERS150W-12	ERS150W-15	ERS150W-24	ERS150W-36	ERS150W-48
输出 Output	输出电压 Output Voltage	5V	12V	15V	24V	36V	48V
	额定电流 Output Current	16A	12.5A	10A	6.5A	4.3A	3.3A
	电流范围 Current Range	0~16A	0~12.5A	0~10A	0~6.5A	0~4.3A	0~3.3A
	额定功率 Output Power	80W	150W	150W	156W	154.8W	158.4W
	纹波与噪声 Ripple and Noise(备注6)	100mV	120mV	150mV	150mV	200mV	200mV
	电压调整范围 Adj-voltage range	4.8~5.3V	10.8~13.2V	14~17V	21.8~26.8V	32.8~39V	43.4~53.2V

	稳压精度 Voltage stability(备注2)	±5.0%	±1%	±1.0%	±1.0%	±1.0%	±1.0%
	线性调整率 Line regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	负载调整率 Load regulation	±2.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%
	保持时间 Hold-up time	30ms (230Vac/100% load), 10ms (115Vac/100% load)					
	启动时间 Startup time	≤3s (115Vac /230Vac ; 100% load)					
输入 Input	电压范围 Voltage Range	90~264Vac					
	频率范围 Frequency Range	47~63Hz					
	输入电流 Input Current	4A / 100Vac					
	浪涌电流 Inrush Current	100A / 230Vac, Cold start					
	效率 Efficiency	81%	87%	87%	88%	90.5%	91%
保护 Protect ions	过电压 OVP	5.8~7.5V	13.2~15.6V	17~21V	30~34V	39~45V	55~60V
	过负载 OCP	17.5~24A	14~18.5A	11~15A	7.5~10A	4.7~7A	3.7~5A
	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 Environ mental	工作温度 Operating Temperature	-25 ~ +70°C 请参考降额曲线 Refer to the derating curve					
	工作湿度 Operating Humidity	20% ~ 90% RH, 无冷凝 Non-condensing					
	存储温度 Storage Temperature	-40 ~ +85°C					
	存储湿度 Storage humidity	5% ~ 95% RH, 无冷凝 Non-condensing					
安规 Safety	安全规范 safety standards	IEC/UL/EN/BS EN62368、EN61558、GB4943、BIS IS13252、EN62477					
	耐压 Hi-pot	I/P - O/P: 3000Vac/4242Vdc; I/P - FG: 1500Vac/2500Vdc; O/P - FG: 500Vac/707Vdc					
	绝缘阻抗 Insulating resistance	≥10Mohm (500VDC / 25°C / 90% RH)					
	静电放电 ESD	IEC/EN61000-4-2, CLASS B; Contact±8KV / Air ±15KV ;					
	电磁兼容 EMC	CISPR32 / EN55032, CLASS B					

其它 Others	固保期 Warranty	3 Years
	MTBF	MIL-HDBK-217F@25°C, ≥300K hrs
	尺寸 SIZE	159mm * 97mm * 30mm (L * W * H)
	包装 Packing	0.357KG; 30PCS/Box
1. 如未特别说明, 所有规格参数均在输入为 230Vac, 额定负载, 25°C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°C, 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°C/1000m When the power supply is working above an altitude of 2000m, the Ta must be derated by 5°C/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.		
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*Disclaimer: The final interpretation rights of the product belong to Great Wall Power Supply Technology Co., Ltd. Details please refer to https://www.gwpst.com		
■ 降额曲线 Derating Curve		

结构参数 Mechanical Overview

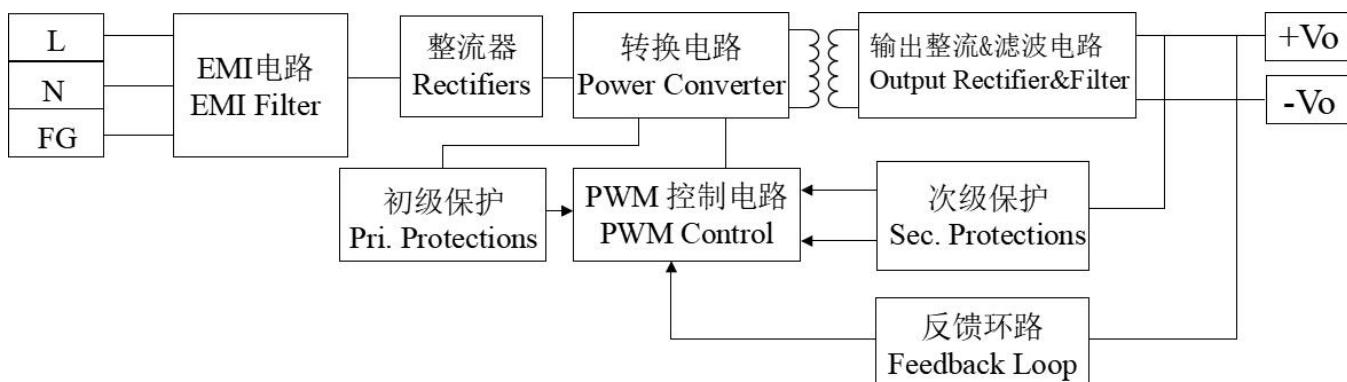
■ 结构尺寸 Shape Size



端子引脚描述 Terminal PIN Description

引脚编号 Pin number	1	2	3	4~5	6~7
引脚功能 Pin Feature	AC/L	AC/N	FG	Vout -	Vout +

■ 方框图 Block Diagram



* 安装手册请查阅网址: <https://www.gwpst.com>

* Installation manual, please refer to web.: <https://www.gwpst.com>