

■ 特性 Features:

- 全电压范围输入: 90-264Vac/127-375Vdc
Full range input voltage: 90-264Vac/127-375Vdc
- 工作温度高达 70℃
Operating temperature up to 70℃
- 内置主动式 PFC 功能
Built-in active PFC function
- 效率高达 91%
Efficiency up to 91%
- 输出低纹波噪声
Low ripple & noise output
- 电源输出 LED 指示灯
PSU output LED indicator
- 输出电压可调
The output voltage are adjustable
- 自然风冷散热
Convection cooling
- 输出短路、过流、过压、过温保护功能
With OSP、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
- 符合 IEC/EN/UL62368、GB4943、GB/T9254 等认证标准
Comply with IEC/EN/UL62368, GB4943, GB/T9254 Etc.certification standards
- 高可靠性, 基板三防漆工艺
High reliability, substrate three anti-paint process
- 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
Aging equipment

■ 描述 Description:

GSP-200W 系列是一款 200W 单组输出 AC 转 DC 电源, 90~264V 交流输入, 整系列提供 4V, 5V, 12V, 15V, 24V, 27V, 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, 安全隔离等优点。产品符合 IEC/EN/UL62368、GB4943、GB/T9254 等国际安全法规, 符合欧盟 RoHS2.0 指令, 是一款高性能的工业电源。

GSP-200W series is a 200W single output AC to DC PSU, 90~264Vac input, The whole series provides 4V, 5V, 12V, 15V, 24V, 27V, 36V and 48V DC isolated output. Advantages such as 30mm extremely thin design. With complete protection function, Excellent EMC performance, high reliability, security isolation and so on. Products comply with IEC/EN/UL62368、GB4943、GB/T9254 international safety standards and EU RoHS2.0 directive; It is a high performance 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
200W	GW-GSP200W-4	120W	90-264Vac/ 127-375Vdc	4V	30A	79	CE/CCC/CB
	GW-GSP200W-5	140W		5V	28A	84	
	GW-GSP200W-12	200.4W		12V	16.7A	90	
	GW-GSP200W-15	201W		15V	13.4A	90	
	GW-GSP200W-24	201.6W		24V	8.4A	91	
	GW-GSP200W-27	202.5W		27V	7.5A	91	
	GW-GSP200W-36	201.6W		36V	5.6A	92	
	GW-GSP200W-48	201.6W		48V	4.2A	92	

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

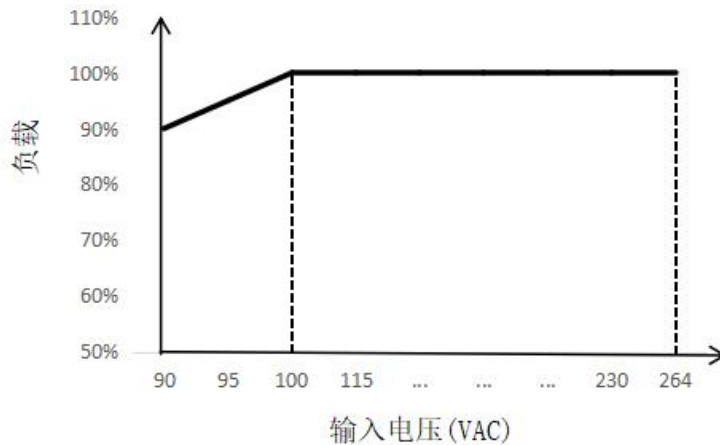
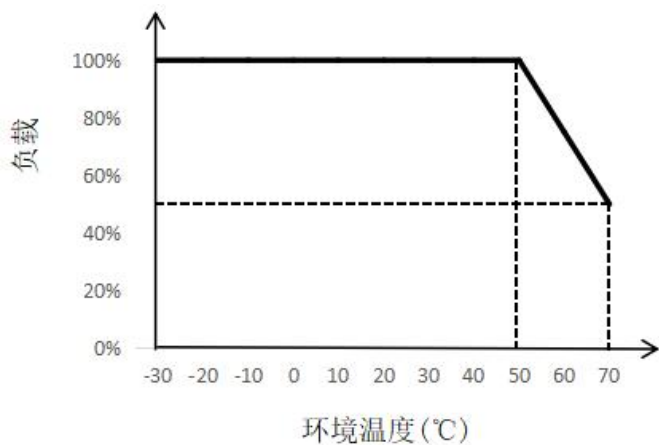
通用参数 General Specification

型号 MODEL		GSP200W-4	GSP200W-5	GSP200W-12	GSP200W-15	GSP200W-24	GSP200W-27	GSP200W-36	GSP200W-48
输出 Output	输出电压 Output Voltage	4V	5V	12V	15V	24V	27V	36V	48V
	额定电流 Output Current	30A	28A	16.7A	13.4A	8.4A	7.5A	5.6A	4.2A
	电流范围 Current Range	0~30A	0~28A	0~16.7A	0~13.4A	0~8.4A	0~7.5A	0~5.6A	0~4.2A
	额定功率 Output Power	120W	140W	200.4W	201W	201.6W	201.6W	201.6W	201.6W
	纹波与噪声 Ripple and Noise(备注 6)	100mV	120mV	150mV	160mV	150mV	200mV	200mV	160mV
	电压调整范围 Adj-voltage range	3.6~4.4V	4.5~5.5V	10.8~13.2V	13.5~16.5V	21.6~26.4V	24.3~29.7V	32.4~39.6V	43.2~52.8V
	稳压精度 Voltage stability(备注 2)	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	线性调整率 Line	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.3%	±0.3%	±0.3%

	regulation								
	负载调整率 Load regulation	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	保持时间 Hold-up time	8ms (230Vac/100% load), 8ms (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	3A / 100Vac, 1.5A / 240Vac							
	功率因数 PF	PF>0.90 (220Vac/50Hz-100%load)		PF>0.95 （220Vac/50Hz-100%load） PF>0.90 （220Vac/50Hz-50%load）					
	浪涌电流 Inrush Current	120A / 230Vac, 60A / 115Vac, Cold start							
	效率 Efficiency	79%	84%	90%	90%	91%	91%	92%	92%
保护 Protections	过电压 OVP	4.6~6.3V	6~9V	13.8~17V	17.8~21.8V	27.6~32.4V	32.9~38.3V	41.4~48.6V	56~68V
	过负载 OCP	120~170%	120~170%	120~170%	120~170%	120~170%	120~170%	150~180%	130~200%
	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	-30 ~ +70℃ 请参考降额曲线 Refer to the derating curve							
	工作湿度 Operating Humidity	10% ~ 90% 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	IEC/EN/UL62368、GB4943							
	耐压 Hi-pot	I/P - O/P: 3000Vac/4242Vdc, I/P - FG: 1800Vac/2500Vdc, O/P - FG: 500Vac/707Vdc							
	绝缘阻抗 Insulating resistance	≥100Mohm (500VDC / 25℃ / 90% RH)							
	泄漏电流 Leakage Current	≤3.5mA (RMS) / 264Vac ≤7.07mA (PK) / 264Vac							

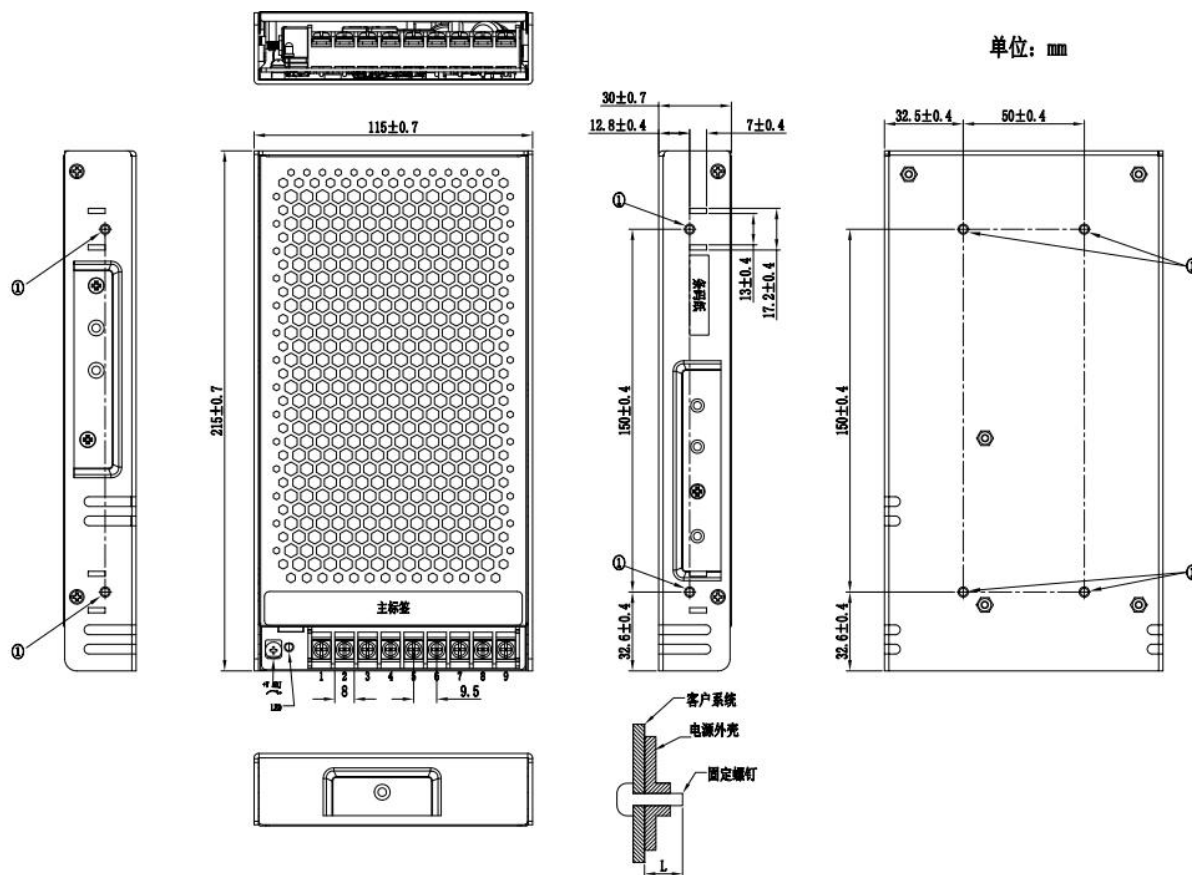
	电磁兼容 EMC	IEC/EN55032 (CISPR32) Class B, IEC/EN55035, IEC/EN61000-3-2		
		Conducted	CISPR32 / EN55032	CLASS B
		Radiated	CISPR32 / EN55032	CLASS B
		Harmonic Current	IEC/EN61000-3-2	-----
		Voltage Flicker	IEC/EN61000-3-3	-----
		ESD	IEC/EN61000-4-2	Level 1, Contact $\pm 8\text{KV}$ / Level 1, Air $\pm 15\text{KV}$
		Radiated	IEC/EN61000-4-3	Level 3
		EFT / Burst	IEC/EN61000-4-4	Level 1, 2KV
		Surge	IEC/EN61000-4-5	Level 1, $2\text{KV}/\text{Line-Earth}$; Level 1, $1\text{KV}/\text{Line-Line}$
		Conducted (抗扰度)	IEC/EN61000-4-6	Level 3
		Magnetic Field	IEC/EN61000-4-8	Level 4
		Voltage Dips and Interruptions	IEC/EN61000-4-11	Level 1, 0% dip 8ms(110Vac); Level 1, 0% dip 8ms(220Vac); Level 2, 70% dip 500ms; Level 2, 0% dip 5000ms
其它 Others	质保期 Warranty	3Years		
	MTBF	Telcordia SR-332 (Bellcore) $\geq 100, \text{K hrs}$		
	尺寸 SIZE	215mm * 115mm * 30mm (L * W * H)		
	包装 Packing	0.62KG; 15PCS/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, $T_a=25^\circ\text{C}$, 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 $1^\circ\text{C}/200\text{m}$ When the power supply is working above an altitude of 2000m, the T_a must be derated by $1^\circ\text{C}/200\text{m}$ 4. 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. 5. 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: 产品最终解释权归长城电源技术有限公司所有 详细请参阅网址 https://www.gwpst.com *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

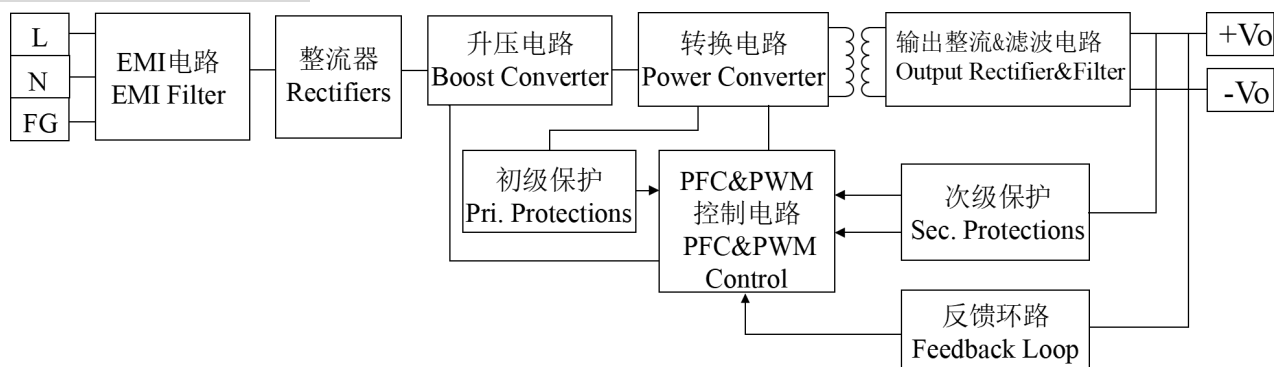


端子引脚描述 Terminal PIN Description

引脚编号 Pin number	1~3	4~6	7	8	9
引脚功能 Pin Feature	Vout+	Vout-	FG	AC/N	AC/L

孔编号	推荐螺丝型号	最大穿孔深度 L	推荐安装扭矩
①	M4	4mm	4~6Kgf.cm

■ 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>