

■ 特性 Features:

- 全电压范围输入: 90-264Vac
Full range AC input voltage: 90-264Vac
- 内置主动式 PFC 功能, PF>0.99。
Built-in active PFC function. PF>0.99
- 高效率, 高可靠性。
High efficiency and reliability
- 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 is adjustable
- 内置直流风扇强制风冷
Built-in DC fan forced air 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、GB9254 等认证标准
Comply with IEC/EN/UL62368、GB4943、GB9254 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
High reliability, conformal coating process for substrates
- 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:

GSP350W 系列是一款 350W 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、GB9254 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。

GSP350W series is a 350W 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、GB9254 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
350W	GW-GSP350W-4	240.0W	90-264Vac	4V	60A	82.5	CCC, CE, CB
	GW-GSP350W-5	300.0W		5V	60A	85.5	
	GW-GSP350W-12	350.4W		12V	29.2A	90	
	GW-GSP350W-15	349.5W		15V	23.3A	91	
	GW-GSP350W-24	350.4W		24V	14.6A	91	
	GW-GSP350W-27	351.0W		27V	13A	91.5	
	GW-GSP350W-36	349.2W		36V	9.7A	92	
	GW-GSP350W-48	350.4W		48V	7.3A	92	

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

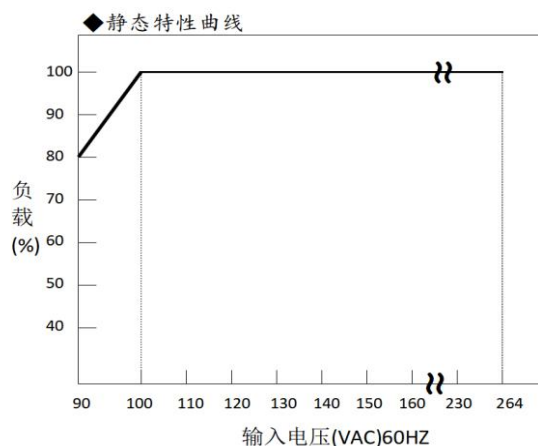
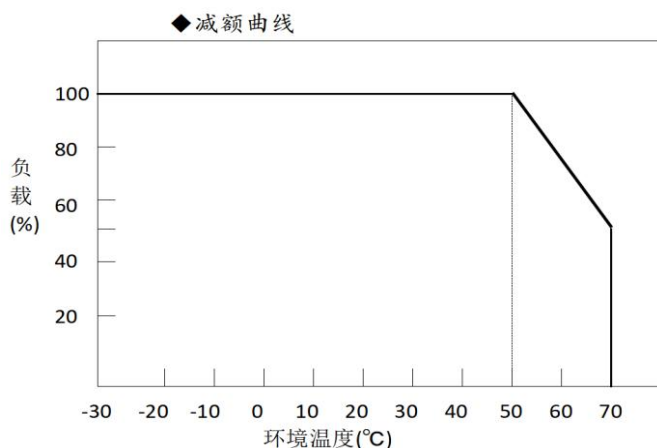
通用参数 General Specification

型号 MODEL		GSP350W-4	GSP350W-5	GSP350W-12	GSP350W-15	GSP350W-24	GSP350W-27	GSP350W-36	GSP350W-48
输出 Output	输出电压 Output Voltage	4V	5V	12V	15V	24V	27V	36V	48V
	额定电流 Output Current	60A	60A	29.2A	23.3A	14.6A	13A	9.7A	7.3A
	电流范围 Current Range	0~60A	0~60A	0~29.2A	0~23.3A	0~14.6A	0~13A	0~9.7A	0~7.3A
	额定功率 Output Power	240.0W	300.0W	350.4W	349.5W	350.4W	351.0W	349.2W	350.4W
	纹波与噪声 Ripple and Noise(备注6)	100mV	100mV	150mV	150mV	150mV	150mV	150mV	220mV
	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 regulation	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.3%	±0.3%	±0.3%
	负载调整率 Load regulation	±1.5%	±1.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	保持时间 Hold-up time	>12ms, 100% Load			>10ms, 100% Load				

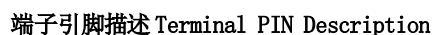
	启动时间 Startup time	≤3000ms (115Vac/230Vac ; 100% load)							
输入 Input	电压范围 Voltage Range	90~264Vac							
	频率范围 Frequency Range	47~63Hz							
	输入电流 Input Current	4.5A / 115Vac, 2A / 230Vac							
	功率因数 PF	PF>0.97/230Vac PF>0.99/115Vac							
	浪涌电流 Inrush Current	45A/115VAC ; 85A/230VAC, Cold start							
	效率 Efficiency	82.5%	85.5%	90.0%	91.0%	91.0%	91.5%	92.0%	92.0%
保护 Protections	过电压 OVP	4.6~6.3V	6~8V	13.8~17.0V	18~22V	27.6~32.4V	31~36V	41~48V	56~65V
	过负载 OCP	120~170%	120~170%	120~170%	120~170%	130~180%	130~180%	130~180%	130~180%
	过温度 OTP	打嗝模式或者自锁模式, 异常条件移除后可自动恢复 Hiccup or Latch 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、GB9254							
	耐压 Hi-pot	I/P - O/P: 3000Vac/4242Vdc, I/P - FG: 1800Vac/2545Vdc, O/P - FG: 500Vac/707Vdc							
	绝缘阻抗 Insulating resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃/ 70% RH							
	漏电流 Leakage Current	<1.0mA / 240Vac							
	静电放电 ESD	IEC/EN61000-4-2, CLASS A; Contact1±8KV / Air ±15KV ;							
	电磁兼容 EMC	CISPR32 / EN55032, CLASS B							
其它 Others	质保期 Warranty	3Years							
	MTBF	Telcordia SR-332 (Bellcore) ≥500K hrs							
	尺寸 SIZE	215mm * 115mm * 30mm (L * W * H)							
	包装 Packing	0.7KG+/-10%; 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, 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. 低电压输入情况下需减额输出, 具体请参照输出减额曲线图。 Derated output is required for low voltage, see the derating curve for details.
	5. 在调节输出电压的情况下, 输出电压超过额定输出电压时总功率不得超过 350W (4V 输出不得超过 240W, 5V 输出不得超 300W), 输出电压低于额定输出电压时电流不能超过额定输出电流。 When adjusting the output voltage, if the output voltage exceeds the limit, the total power should not exceed 350W (4V output should not exceed 240W, 5V output should not exceed 300W), and if the output voltage is lower than the rated output voltage, the 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 47 uF 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	M4	4mm	7~10Kgf.cm

■ 方框图 Block Diagram

