

■ 特性 Features:

- 输入电压范围: 180-264Vac/250-370Vdc
The input voltage range: 180-264Vac/250-370Vdc
- 半灌胶防雨设计
Semi-Potted Rainproof Design
- 工作温度高达 60℃
Operating temperature up to 60℃
- 3000Vac 高隔离电压
3000Vac 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
- 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
- 满足 3G 振动测试
Meet 3G vibration test
符合 IEC/EN/UL62368、GB4943 等认证标准
Comply with IEC/EN/UL62368, GB4943 Etc.certification standards
- 高效率, 高可靠性。
High efficiency and reliability
- 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
- LED 照明设备
LED Lighting devices
- 机械和电气设备
Mechanical and electrical equipment
- 老化设备
Aging equipment

■ 描述 Description:

NHR350H 系列是一款 350W 单组输出 AC 转 DC 电源, 180~264V 交流输入, 整系列提供 12V, 24V, 36V 和 48V 直流隔离输出; 1U 外型设计, 具有完整的保护功能, 半灌胶防雨设计, 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、GB4943、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-350CW series is a 350W single output AC to DC PSU, 180~264Vac input, The whole series provides 12V, 24V, 36V and 48V DC isolated output; 1U extremely thin design; With complete protection function; Semi-Potted Rainproof Design, Excellent EMC performance; high reliability, high cost performance, security isolation and so on. Products comply with IEC/UL/EN/BS EN62368、GB4943、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
350W	GW-NHR350H-12	320.4W	180~264Vac/ 250~370Vdc	12V	26.7A	89	CQC, CE
	GW-NHR350H-24	350.4W		24V	14.6A	90	
	GW-NHR350H-36	349.2W		36V	9.7A	90.5	
	GW-NHR350H-48	350.4W		48V	7.3A	90.5	

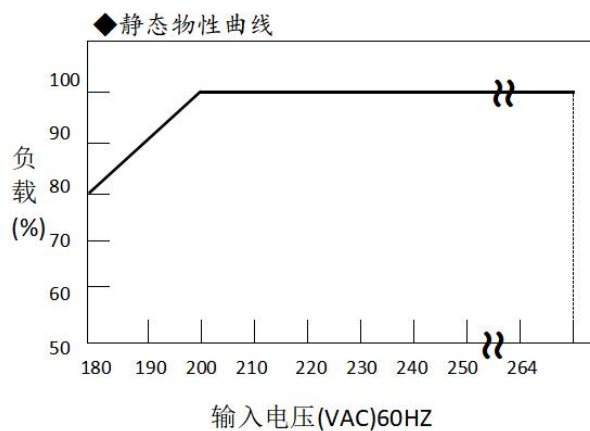
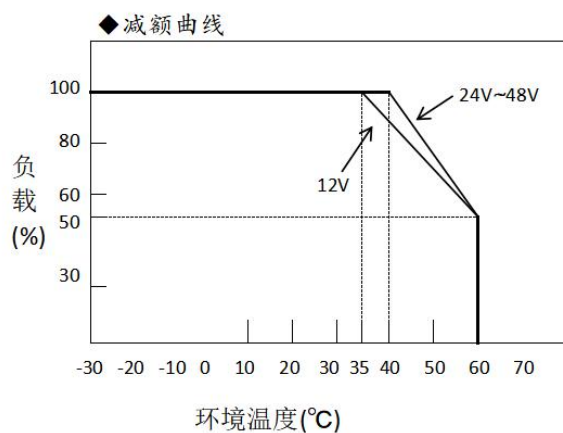
*其它安规需求认证中 Other safety requirements are pending certification.

通用参数 General Specification

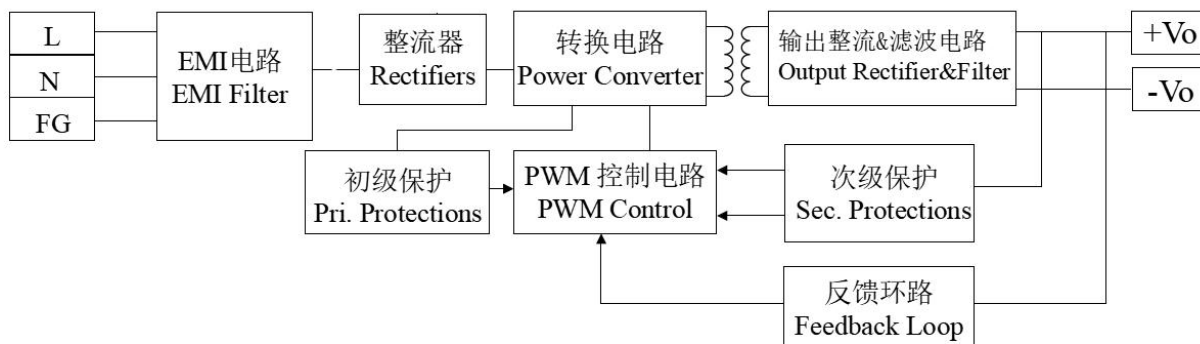
型号 MODEL		NHR350H-12	NHR350H-24	NHR350H-36	NHR350H-48
输出 Output	输出电压 Output Voltage	12V	24V	36V	48V
	额定电流 Output Current	26.7A	14.6A	9.7A	7.3A
	电流范围 Current Range	0~26.7A	0~14.6A	0~9.7A	0~7.3A
	额定功率 Output Power	320.4W	350.4W	349.2W	350.4W
	纹波与噪声 Ripple and Noise(备注 6)	100mV	150mV	200mV	240mV
	电压调整范围 Adj-voltage range	10.8~13.2V	21.6~26.4V	32.4~39.6V	43.2~52.8V
	稳压精度 Voltage stability(备注 2)	±1.0%	±1.0%	±1.0%	±1.0%
	线性调整率 Line regulation	±0.5%	±0.5%	±0.5%	±0.5%
	负载调整率 Load regulation	±0.5%	±0.5%	±0.5%	±0.5%
	保持时间 Hold-up time	20ms(230Vac/100% load)			
	启动时间 Startup time	≤3s (230Vac ; 100% load)			
输入 Input	电压范围 Voltage Range	180~264Vac			
	频率范围 Frequency Range	47~63Hz			
	输入电流 Input Current	4A / 230Vac			
	浪涌电流 Inrush Current	150A / 230Vac, 冷启动 Cold start			
	效率 Efficiency	89%	90%	90.5%	90.5%
保护 Protections	过电压 OVP	13. 8~16. 2V	27. 6~32. 4V	41. 4~46. 8V	55. 2~64. 8V
		12V~36V:打嗝模式，异常条件移除后可自动恢复；48V:关断输出电压，重启恢复			
		12V~36V: Hiccup mode, The PSU can be Auto-recovered when the fault is removed			
		48V: Shut off the output voltage;The PSU can be recovered after restarted;			

		29.4~37.3A	19~26.2A	11.7~15.5A	8.8~11.6A
	过负载 OCP	12V~36V:打嗝模式，异常条件移除后可自动恢复； 48V:关断输出电压，重启恢复 12V~36V: Hiccup mode, The PSU can be Auto-recovered when the fault is removed 48V: Shut off the output voltage;The PSU can be recovered after restarted;			
	过温度 OTP	12V~36V:打嗝模式，异常条件移除后可自动恢复； 48V:关断输出电压，重启恢复 12V~36V: Hiccup mode, The PSU can be Auto-recovered when the fault is removed 48V: Shut off the output voltage;The PSU can be recovered after restarted;			
	短路 OSP	12V~36V:打嗝模式，异常条件移除后可自动恢复； 48V:关断输出电压，重启恢复 12V~36V: Hiccup mode, The PSU can be Auto-recovered when the fault is removed 48V: Shut off the output voltage;The PSU can be recovered after restarted;			
环境 Environmental	工作温度 Operating Temperature	-25 ~ +60℃ 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	-30 ~ +85℃			
	存储湿度 Storage humidity	10% ~ 95% RH，无冷凝 Non-condensing			
安规 Safety	安全规范 safety standards	IEC/UL/EN/BS EN62368、GB4943、EN62477			
	耐压 Hi-pot	I/P - O/P: 3000Vac,4242Vdc; I/P - FG: 2000Vac,2828Vdc; O/P-FG: 500Vac,707Vdc			
	绝缘阻抗 Insulating resistance	≥100Mohm (500VDC / 25℃ / 90% RH)			
	泄漏电流 Leakage Current	<1.0mA / 240VAC			
	电磁兼容发射	IEC/EN55032 (CISPR32) Class A, IEC/EN55014, IEC/EN61000-3-3, GB/T9254, CNS15936, KN32			
	电磁兼容抗扰度	IEC/EN61000-4-2, 3, 4, 5, 6, 8, 11, IEC/EN61000-6-2, IEC/EN50082-2, IEC/EN55035, KN35			
其它 Others	质保期 Warranty	3Years			
	MTBF	Telcordia SR-332 (Bellcore) ≥500K hrs			
	尺寸 SIZE	200mm * 120mm * 40mm (L * W * H)			
	包装 Packing	0.98KG; 10PCS/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 1℃/200m When the power supply is working above an altitude of 2000m, the Ta must be derated by 1℃/200m				
	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

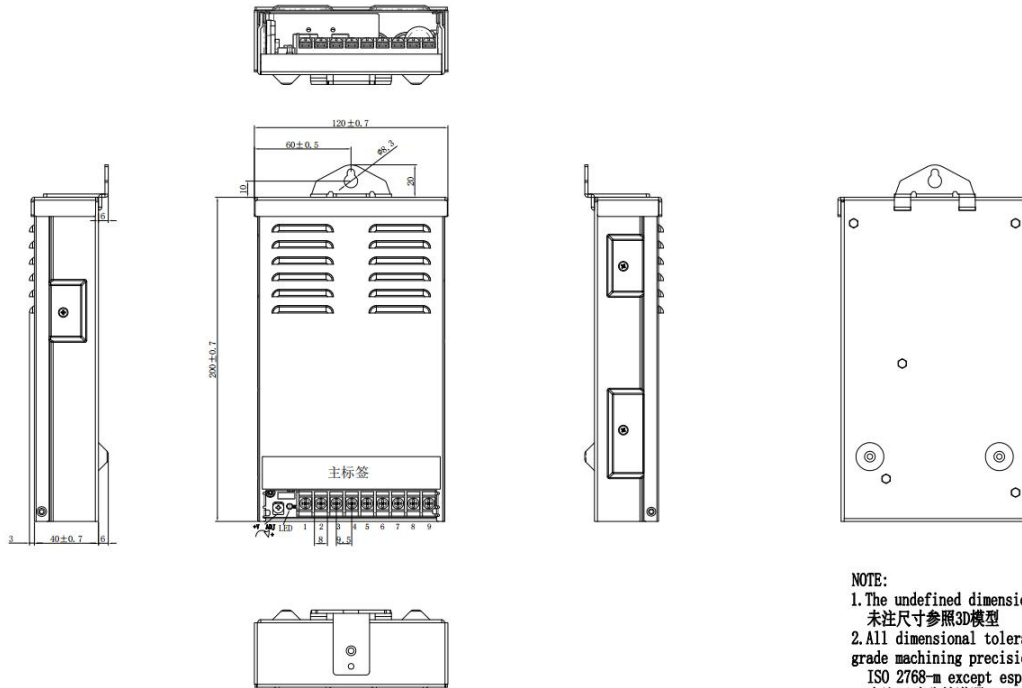


■ 方框图 Block Diagram



结构参数 Mechanical Overview

■ 结构尺寸 Shape Size



NOTE:

1. The undefined dimensions refer to the 3D model.

未注尺寸参照3D模型

2. All dimensional tolerance refers to general tolerance

grade machining precision of

ISO 2768-m except especial declaration.

未注尺寸公差遵照ISO 2768-m 一般等级的精度要求。

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

* 安装手册请查阅网址: <https://www.gwpst.com>Installation manual, please refer to web.: <https://www.gwpst.com>