

■ 特性 Features:

- 输入电压范围: 90-264Vac/127-370Vdc
The input voltage range: 90-264Vac/127-370Vdc
- 工作温度高达 70℃
Operating temperature up to 70℃
- 工作效率高达 90%
Work efficiency reaches up to 90%
- 输出低纹波噪声
Low ripple noise output
- 电源输出 LED 指示灯
Power output LED indicator
- 输出电压值可调
The output voltage is adjustable
- 4242Vdc 高隔离电压
4242Vdc high isolation voltage
- 输出短路、过流、过压、过温保护
OSP, OCP, OVP, OTP protection
- 满足 5000m 海拔应用(备注 3)
Meet 5000m altitude application (Note 3)
- 符合 IEC/EN/UL62368、GB4943、等认证标准
Meet IEC/EN/UL62368, GB4943 Etc. certification standards
- 适合安装于 DIN rail TS-35/7.5 或 15
Can be installed on DIN rail TS-35 or 15
- 自然风冷
Convection cooling
- 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, substrate three anti-paint process (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:

DR120N 系列产品是一款经济薄型符合德国工业标准的导轨型电源供应器, 适合安装在 TS-35/7.5 或 TS-35/15 的轨道上, 在允许节约空间机柜内本体被设计为 32 毫米宽度。整个系列采用从 90Vac 到 264Vac 全范围交流输入, 提供 12V、24V、48V 单路输出, 输出总功率 120W。通过 CE/CQC/CB 认证, 符合欧盟 RoHS2.0 指令。

The DR120N series of products is a rail PSU that conforms to the German industrial standard, which is suitable for installation in the orbit of TS-35/7.5 or TS-35/15, and designed to save the inner body of the space cabinet by 32 mm width. The entire series adapts a full range AC input from 90vac to 264vac, providing single output of 12V, 24V, 48V, with a total output power of 120W, which has passed the CE/CQC/CB certification and the Eu RoHS2.0 instruction.

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
120W	GW-DR120N-12	120.0W	90-264Vac/ 127-370Vdc	12V	10A	86.5	CE/CQC/CB
	GW-DR120N-24	120.0W		24V	5A	88.5	
	GW-DR120N-48	120.0W		48V	2.5A	90.0	

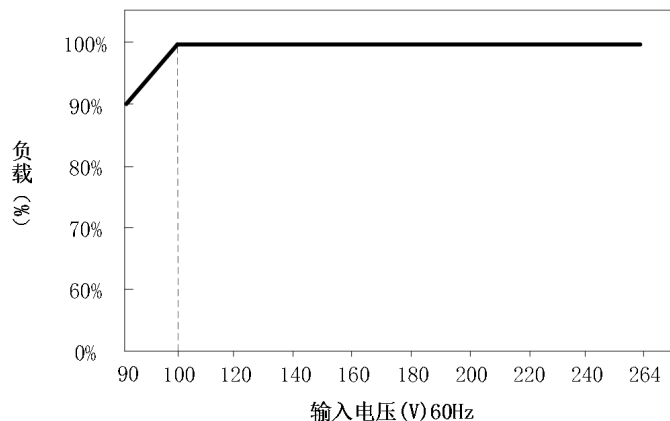
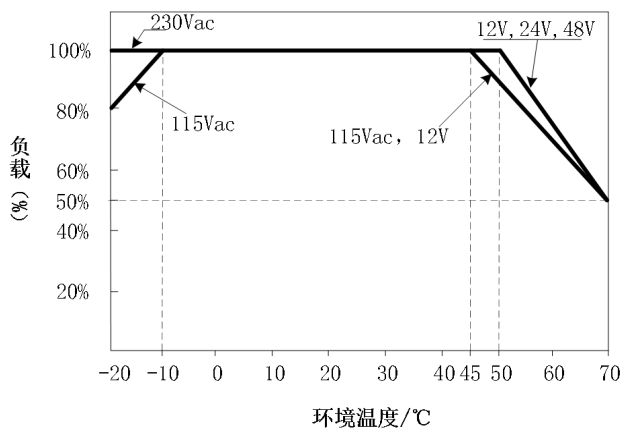
*其它安规需求认证中 Other safety requirements are pending certification.

通用参数 General Specification

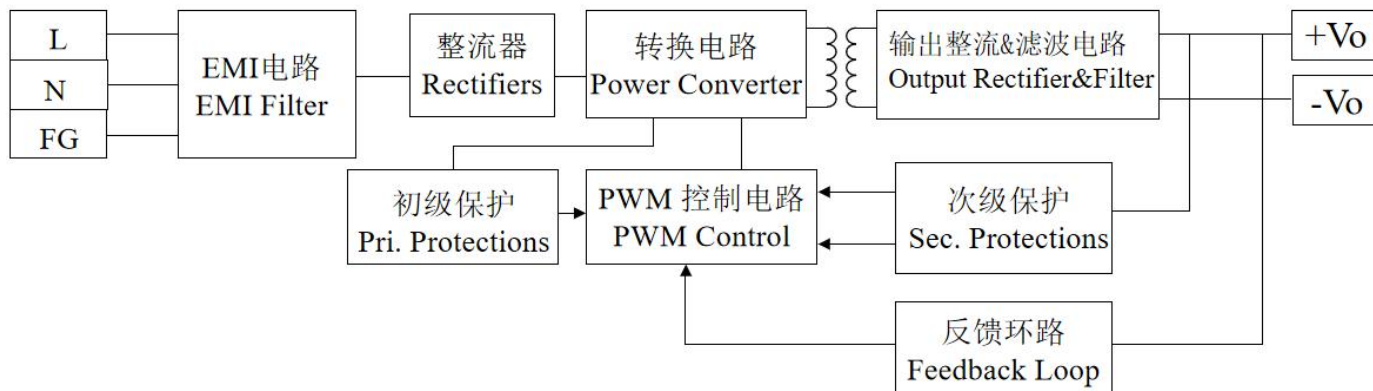
型号 MODEL		GW-DR120N-12	GW-DR120N-24	GW-DR120N-48
输出 Output	输出电压 Output Voltage	12V	24V	48V
	额定电流 Output Current	10A	5A	2.5A
	电流范围 Current Range	0~10A	0~5A	0~2.5A
	额定功率 Output Power	120W	120W	120W
	纹波与噪声 Ripple and Noise (备注 6)	100mV	120mV	150mV
	电压调整范围 Adj-voltage range	12~14V	24~28V	48~55V
	稳压精度 Voltage stability (备注 2)	±2.0%	±1.0%	±1.0%
	线性调整率 Line regulation	±0.5%	±0.5%	±0.5%
	负载调整率 Load regulation	±1.0%	±1.0%	±0.5%
	保持时间 Hold-up time	8ms (115Vac/80% load)		
	启动时间 Startup time	≤2.5s (115Vac/100% load), ≤1.2s (230Vac/100% load)		
输入 Input	电压范围 Voltage Range	90 ~ 264VAC / 127 ~ 370VDC		
	频率范围 Frequency Range	47~63Hz		
	输入电流 Input Current	2.6A / 100Vac		
	浪涌电流 Inrush Current	25A / 115Vac, 45A / 230Vac (Cold start)		
	效率 Efficiency	86.50%	88.5%	90.0%
保护 Protections	过电压 OVP	14~17V	29~33V	56~63V
	过负载 OCP	10~16A	5.5~7.5A	2.75~4.5A

	过温度 OTP	打嗝模式, 异常条件移除后可自动恢复 Hiccup mode, The power supply can be Auto-protected 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 power supply can be Auto-protected when the fault is removed
环境 Environmental	工作温度 Operating Temperature	-20 ~ +70°C 请参考降额曲线 Refer to the derating curve
	工作湿度 Operating Humidity	20% ~ 95% 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	≥100Mohm (500VDC / 25°C / 90% RH)
	静电放电 ESD	IEC/EN61000-4-2, CLASS A; Contact1±8KV / Air ±15KV
其它 Others	电磁兼容 EMC	CISPR32 / EN55032, CLASS B
	质保期 Warranty	3Years
	MTBF	MIL-HDBK-217F@25°C, ≥100K hrs
	尺寸 SIZE	123.44mm * 132.2mm * 32.0mm (L * W * H) / 含卡扣
	包装 Packing	0.45KG; 16PCS/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°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 120W 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 120W 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 ERS 电容和 0.1uF 陶瓷电容, 在 20MHZ 带宽下进行量测。 Twisted-pair connection is used for ripple and noise testing, and 47uF low ERS capacitor and 0.1uF ceramic capacitor are connected in parallel at the output, and 20MHZ bandwidth is used. *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

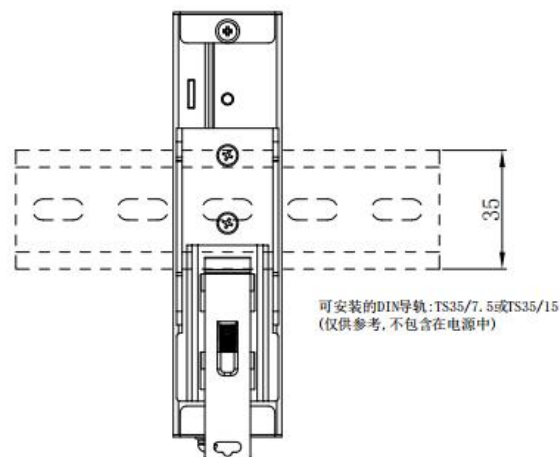
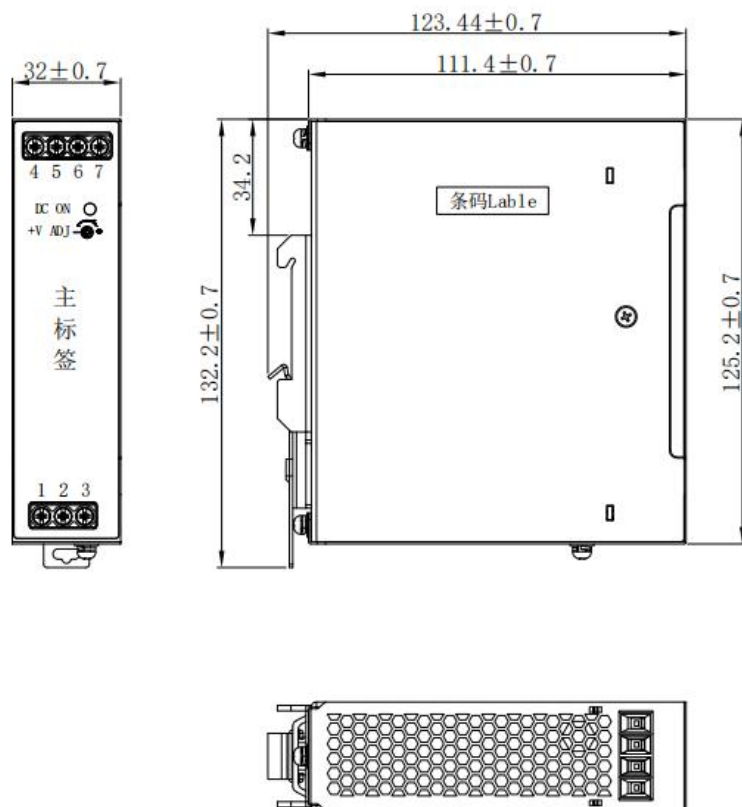


■ 方框图 Block Diagram



结构参数 Mechanical Overview

■ 结构尺寸 Shape Size



端子引脚分布 Terminal pin arrangement

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

* 安装手册请查阅网址: <https://www.gwpst.com>

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