

■ **特性 Features:**

- 输入电压范围: 85-264Vac/120-370Vdc
The input voltage range: 85-264Vac/120-370Vdc
- 工作效率高达 91%
Work efficiency reaches up to 91%
- 空载功耗 < 1 W
No load power consumption < 1 W
- 输出低纹波噪声
Low ripple noise output
- 电源输出 LED 指示灯
Power output LED indicator
- DC OK 功能
With DC OK functions
- 输出电压值可调
The output voltage is adjustable
- 5656Vdc 高隔离电压
5656Vdc 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 (工作温度: -40~+70°C)
Convection cooling (Operating temperature: -40~+70°C)
- 高可靠性, 基板三防漆工艺
High reliability, conformal coating process for substrates



■ **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:

DR150N 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，在允许节约空间橱柜内本体被设计为 32 毫米宽度。整个系列采用从 85Vac 到 264Vac 全范围交流输入，提供 12V、24V、36V、48V 单路输出，输出最大功率 150W。通过 CE/CQC 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 85vac to 264vac, providing single output of 12V, 24V, 36V, 48V, with a maximum output power of 150W, which has passed the CE/CQC 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
150W	GW-DR150N-12	132W	85-264Vac/ 120-370Vdc	12V	11A	89	CE/CQC
	GW-DR150N-24	156W		24V	6.5A	91	
	GW-DR150N-36	155.88W		36V	4.33A	90.5	
	GW-DR150N-48	156W		48V	3.25A	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		GW-DR150N-12	GW-DR150N-24	GW-DR150N-36	GW-DR150N-48	
输出 Output	输出电压 Output Voltage	12V	24V	36V	48V	
	额定电流 Output Current	115VAC	10A	5.2A	3.46A	2.6A
		230VAC	11A	6.5A	4.33A	3.25A
	电流范围 Current Range	115VAC	0~10A	0~5.2A	0~3.46A	0~2.6A
		230VAC	0~11A	0~6.5A	0~4.33A	0~3.25A
	额定功率 Output Power	115VAC	120W	124.8W	124.56W	124.8W
		230VAC	132W	156W	155.88W	156W
	纹波与噪声 Ripple and Noise (备注6)	100mV	150mV	150mV	200mV	
	电压调整范围 Adj-voltage range	12~14V	24~29V	36~42V	48~55V	
	稳压精度 Voltage stability (备注2)	±2.0%	±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	±1.0%	±1.0%	±1.0%	±1.0%		
保持时间 Hold-up time	16ms/230Vac 8ms/115Vac (满载时)					
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	85~264Vac				
	频率范围 Frequency Range	47~63Hz				
	输入电流 Input Current	2.6A/115Vac 1.6A/230Vac				
	浪涌电流 Inrush Current	20A / 115Vac 40A / 230Vac (Cold start)				
	效率 Efficiency	89%	91%	90.5%	91%	

保护 Protections	过电压 OVP	14 ~ 16V	30 ~ 35V	43 ~ 50V	56 ~ 63V	
	过负载 OCP	11.5~16.5A	6.8~8.8A	4.5~5.8A	3.5~4.4A	
	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	-40 ~ +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	10% ~ 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: 4KVac/5656Vdc; I/P - FG: 2KVac/2828Vdc; O/P - FG: 1.5KVac/2121Vdc				
	绝缘阻抗 Insulating resistance	≥100Mohm (500VDC / 25°C / 70% RH)				
	泄漏电流 Leakage Current	<1mA/240VAC				
	电磁干扰 EMI	传导骚扰 Conducted	CISPR32/EN55032	CLASS B		
		辐射骚扰 Radiated	CISPR32/EN55032	CLASS B		
		谐波电流 Harmonic Current	IEC/EN61000-3-2	CLASS A(≤80%Load)		
		电压闪烁 Voltage Flicker	IEC/EN61000-3-3	-----		
	电磁抗扰 EMS	静电放电 ESD	IEC/EN61000-4-2	Level 4 Contact ±8KV / Level 4 Air ±15KV; Criteria A		
		辐射抗扰 Radiated	IEC/EN61000-4-3	Level 3 10 V/m; Criteria A		
		脉冲群抗扰度 EFT/B	IEC/EN61000-4-4	Level 3 ±2KV; Criteria A		
		浪涌抗扰度 Surge	IEC/EN61000-4-5	Level 4 4KV / Line-Earth; Criteria A Level 4 2KV / Line-Line; Criteria A		
		传导抗扰度 Conducted	IEC/EN61000-4-6	Level 3 10Vrms; Criteria A		
磁场抗扰度 Magnetic Field		IEC/EN61000-4-8	Level 4 30A/m; Criteria A			
电压暂降、跌落和中断 Voltage Dips and Interruptions		IEC/EN61000-4-11	0% dip 10mS(110Vac); Criteria B 0% dip 20mS(220Vac); Criteria B 70% dip 500mS; Criteria B 0% dip 5000mS; Criteria C			
其它 Others	质保期 Warranty	3Years				
	MTBF	Telcordia SR-332 (Bellcore) ≥500K hrs				
	尺寸 SIZE	32.0mm*132.2mm*123.44mm (W * H * D) / 含卡扣				
	包装 Packing	0.54KG; 16PCS/Box				
备注 Remark	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>5. 产品在任何稳态工作条件下, 总功率不应超出 150W 额定功率且输出电流不应超出额定输出电流。</p>					

Under any operating conditions, the total power should not exceed the 150W 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。

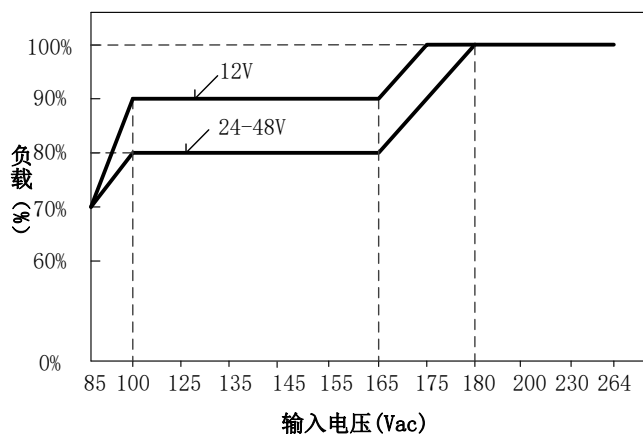
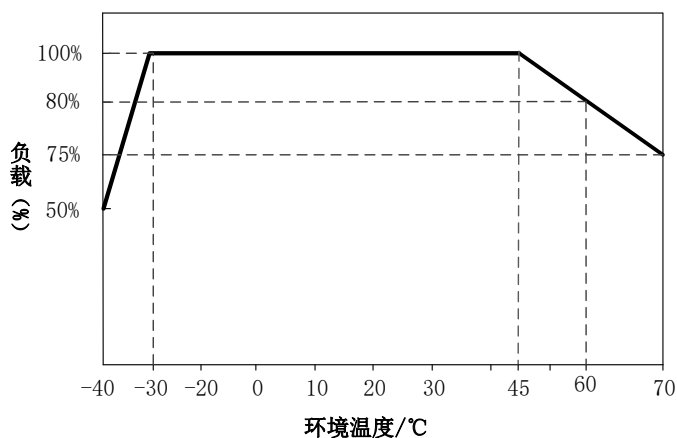
Twisted-pair connection is used for ripple and noise testing, and 47uF low ERS capacitor and 0.1uF ceramic capacitor are connected in parallel at the output, and 20MHZ bandwidth is used.

*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.cn/>

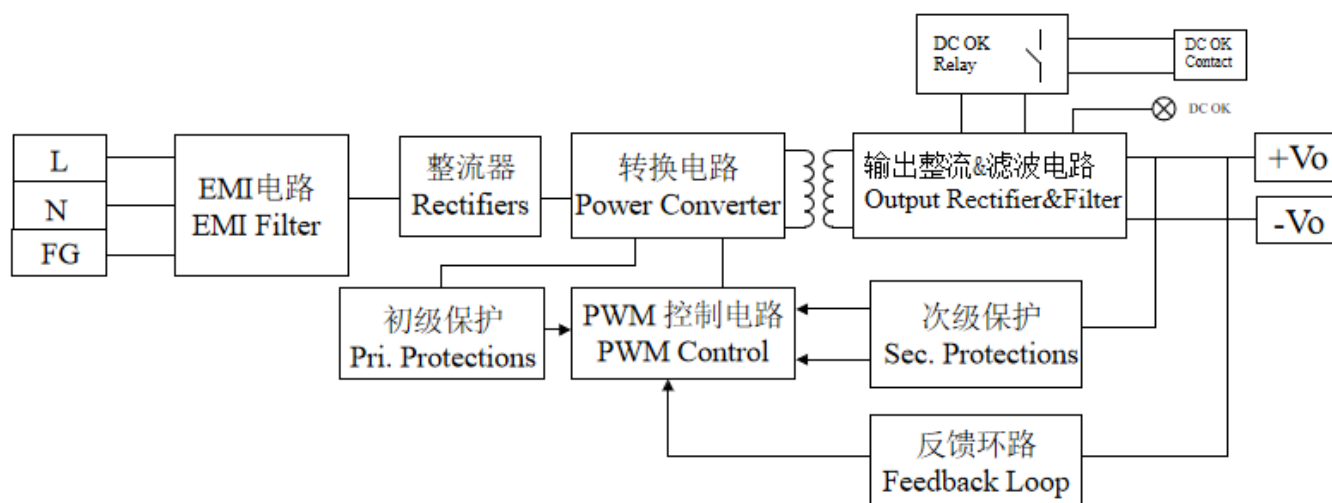
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Details please refer to <https://www.gwpst.cn/>

■ 降额曲线 Derating Curve

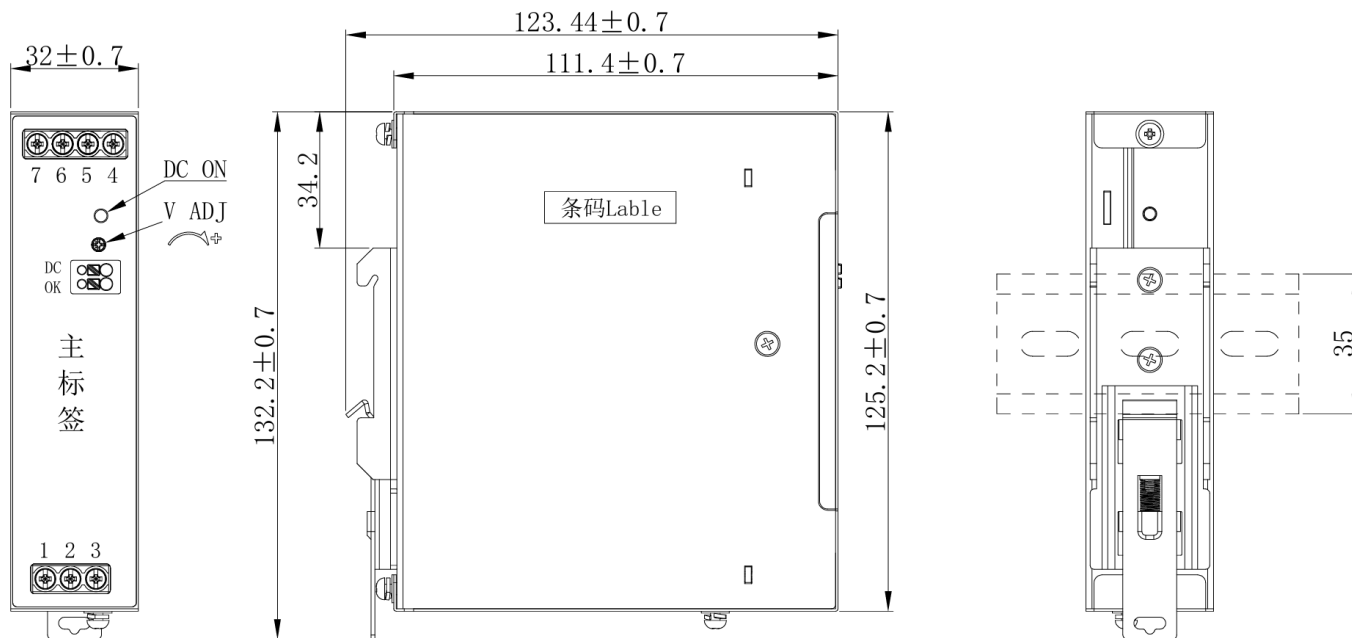


■ 方框图 Block Diagram

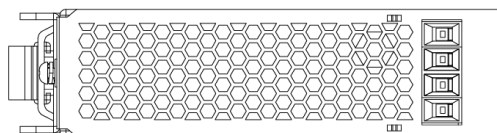


结构参数 Mechanical Overview

■ 结构尺寸 Shape Size



引脚功能	
引脚	功能
1	AC (L)
2	AC (N)
3	FG
4, 5	+V
6, 7	-V



可安装的DIN导轨：
TS35/7.5或TS35/15
(仅供参考, 不包含在电源中)

* 安装手册请查阅网址：<https://www.gwpst.cn/>

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