

■ **特性 Features:**

- 输入电压范围: 85 - 264VAC 或 120 - 370VDC
The input voltage range : 85-264Vac/120-370Vdc
- 工作温度高达 60°C
Operating temperature up to 60°C
- 输出低纹波噪声
Low ripple & noise output
- 空载功率损耗: <1.00W
No-load power loss: <1.00W
- 电源输出 LED 指示灯, 并有 DC OK 功能
PSU output LED indicator with DC OK function
- 输出电压值可调
The output voltage is adjustable
- Class I 耐电压强度
Class I Voltage Endurance Strength
- 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)
- 符合 IEC/EN/BS EN62368、EN/EN61558 等认证标准
Meet IEC/EN/BS EN62368、EN/EN61558 Etc.certification standards
- 安装导轨: TS-35/7.5 或 TS-35/15
Can be installed on the rail frame: TS-35/7.5 or TS-35/15
- 自然风冷
Convection cooling
- 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:

DR100M 是一款薄型高性价比、标准导轨式安装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 55 毫米宽度，具有 DC-OK 继电器触点。整个系列采用从 85Vac 到 264Vac 全范围交流输入，提供 12V、24V、48V 单路输出，输出总功率 100W。通过 CE/CQC/CB 认证，符合欧盟 RoHS2.0 指令。

The DR100M series of products is a thin and cost-effective rail PSU that conforms to the standard rail mounted rail, which is suitable for installation in the orbit of TS-35/7.5 or TS-35/7.5, and designed to save the inner body of the space cabinet by 55 mm width. The entire series features a DC-OK relay contact and adopts a full range of AC input from 85Vac to 264Vac, providing single output of 12V/24V/48V, with a total output power of 100W, 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
100W	GW-DR100M-12	90W	85-264Vac/ 120-370Vdc	12V	7.5A	83.0	CE/CQC/CB
	GW-DR100M-24	96W		24V	4A	86.0	
	GW-DR100M-48	96W	48V	2A	87.0		

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

通用参数 General Specification

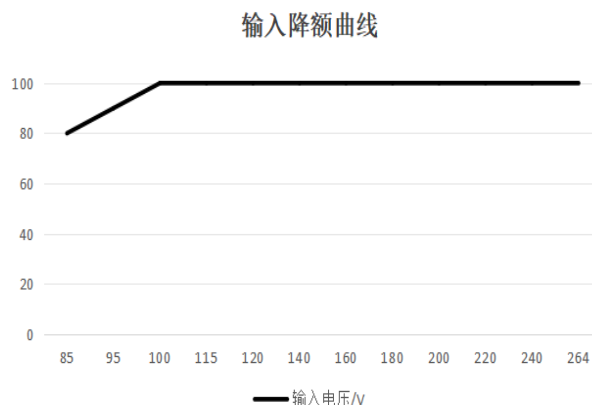
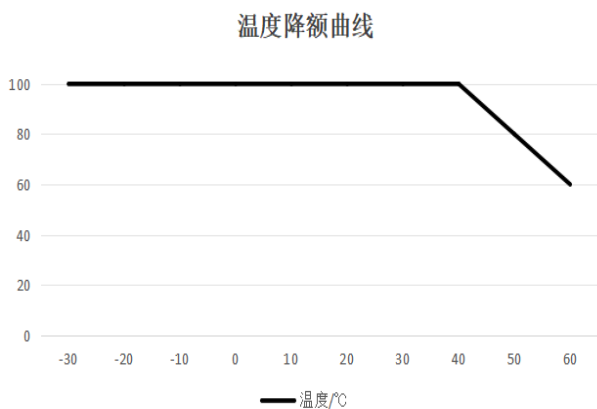
型号 MODEL		DR100M-12	DR100M-24	DR100M-48
输出 Output	输出电压 Output Voltage	12V	24V	48V
	额定电流 Output Current	7.5A	4A	2A
	电流范围 Current Range	0~7.5A	0~4A	0~2A
	额定功率 Output Power	90W	96W	96W
	纹波与噪声 Ripple and Noise (备注5)	120mV	150mV	200mV
	电压调整范围 Adj-voltage range	11.5~15V	22.4~30V	47.2~57.1V
	稳压精度 Voltage stability (备注2)	±1%	±1%	±1%
	线性调整率 Line regulation	±1%	±1%	±1%
	负载调整率 Load regulation	±1%	±1%	±1%
	保持时间 Hold-up time	20ms (115Vac/100% load), 50ms (230Vac/100% load)		
启动时间 Startup time	≤3s (115Vac/100% load), ≤3s (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	1.5A/115Vac, 0.8A/230Vac		
	功率因数 PF	PF>0.95/230VAC, PF>0.99/115VAC(100%load)		
	浪涌电流 Inrush Current	30A / 115Vac, 60A / 230Vac (Cold start)		
保护 Protections	效率 Efficiency	83%	86%	87%
	过电压 OVP	15.6~18V	31.2~35V	57.6~64.8V
	过负载 OCP	8.75~12.5A	4.3~6.3A	2.2~3.2A

	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 ~ +60°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: 3000Vac/4242Vdc; I/P - FG: 1800Vac/2564Vdc; O/P - FG: 500Vac/707Vdc			
	绝缘阻抗 Insulating resistance	≥100Mohm (500VDC / 25°C / 65% RH)			
	泄漏电流 Leakage Current	≤0.25mA (RMS) , ≤0.707mA (PK) (264Vac/60Hz)			
	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	
		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 2 Contact ±4KV / Level 3 Air ±8KV; 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 A 0% dip 20mS(220Vac); Criteria B 70% dip 500mS; Criteria B 0% dip 5000mS; Criteria B		
其它 Others	质保期 Warranty	3Years			
	MTBF	Telcordia SR-332 (Bellcore) ≥500K hrs			
	尺寸 SIZE	55.0mm*90.0mm*100.0mm(W * H * D)			
	包装 Packing	0.5KG			
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. 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.</p> <p>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.</p>				

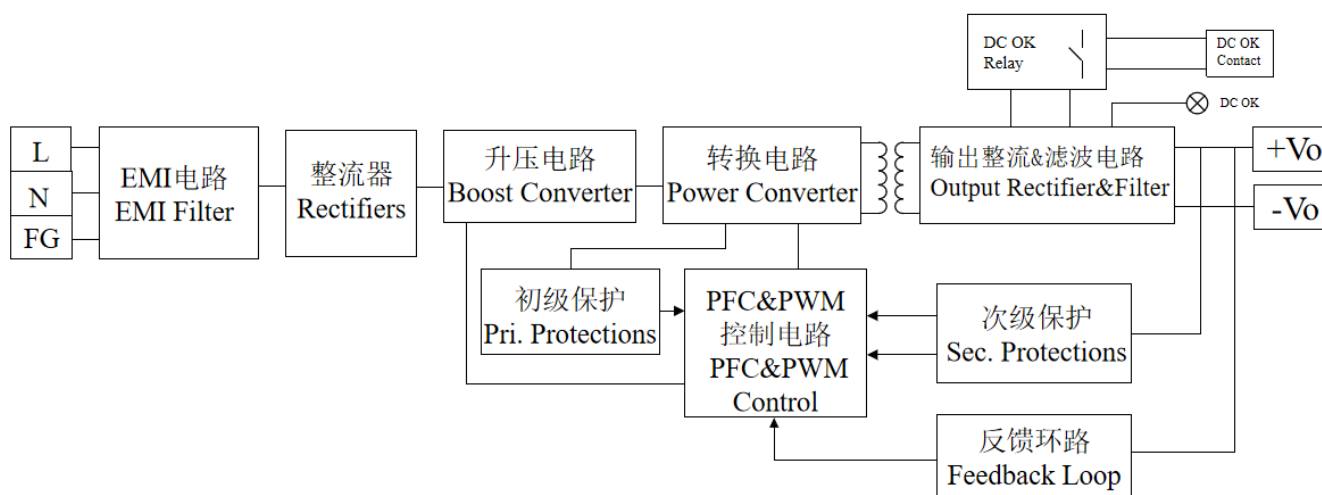
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■ 降额曲线 Derating Curve

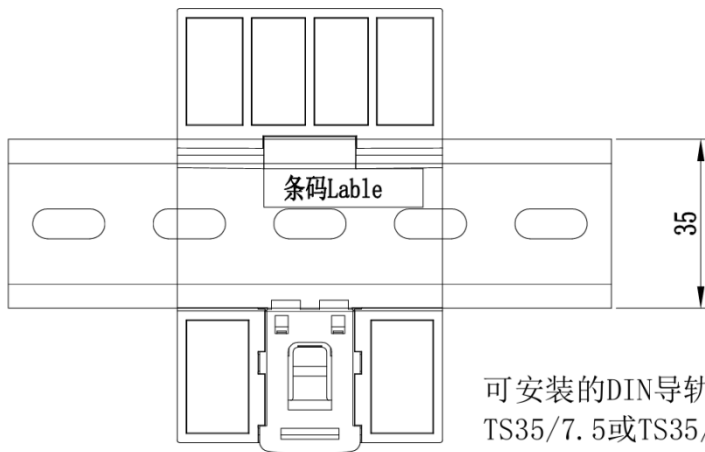
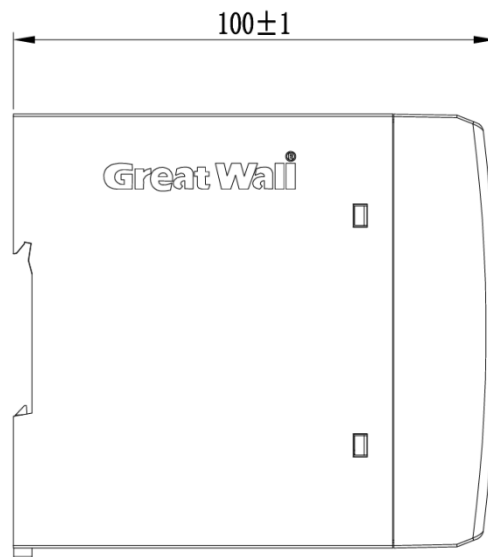
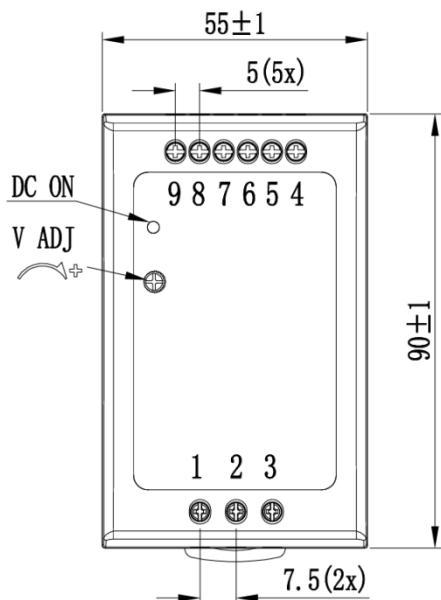


■ 方框图 Block Diagram



结构参数 Mechanical Overview

■ 结构尺寸 Shape Size



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

引脚功能	
引脚	功能
1	⊕
2	AC (N)
3	AC (L)
4	DC OK-
5	DC OK+
6, 7	-V
8, 9	+V

* 安装手册请查阅网址：<https://www.gwpst.cn/>

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