

■ 特性 Features:

- 全电压范围输入: 90-264Vac/127-370Vdc
Full range input voltage : 90-264Vac/127-370Vdc
- 工作温度高达 70℃
Operating temperature up to 70℃
- 内置主动式 PFC 功能, PF>0.99。
Built-in active PFC function. PF>0.99
- 效率最高可达 94.5%
The efficiency is up to 94.5%
- 支持 3+1 母线并联均流
Support the 3+1 bus line parallel flow
- 输出低纹波噪声
Low ripple & noise output
- 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
- 短路、过流、过压、过温保护功能
With OSP、OCP、OVP、OTP functions
- 150%峰值功率持续 3 秒输出
150% peak power output for 3 seconds
- 满足 5000M 海拔应用 (备注 3)
Meet 5000M altitude application (Note 3)
- 符合 IEC/EN/UL62368、GB4943、GB/T9254 等认证标准
Meet IEC/EN/UL62368, GB4943, GB/T9254 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, substrate three anti-paint process
- 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
Aging equipment

■ 描述 Description:

DR480S 是一款高效节能、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, 在允许节约空间橱柜内本体被设计为 55 毫米宽度。整个系列采用从 90Vac 到 264Vac 全范围交流输入, 提供 24V、48V 单路输出, 输出总功率 480W。通过 CCC/CE 认证, 符合欧盟 RoHS2.0 指令。

The DR480S series of products is an efficient, energy-saving 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-35/15, and designed to save the inner body of the space cabinet by 55 mm width. The entire series adapts a full range AC input from 90vac to 264vac, providing single output of 24V, 48V, with a total output power of 480W, which has passed the CCC/CE 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
480W	GW-DR480S-24	480W	90-264Vac/	24V	20A	94.5	CCC/CE
	GW-DR480S-48	480W	127-370Vdc	48V	10A	94.5	

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

通用参数 General Specification

型号 MODEL		DR480S-24	DR480S-48
输出 Output	输出电压 Output Voltage	24V	48V
	额定电流 Output Current	20A	10A
	电流范围 Current Range	0~20A	0~10A
	额定功率 Output Power	480W	480W
	纹波与噪声 Ripple and Noise(备注 5)	200mV	240mV
	电压调整范围 Adj-voltage range	24~28V	48~55V
	稳压精度 Voltage stability(备注 2)	±1.0%	±1.0%
	线性调整率 Line regulation	±0.5%	±0.5%
	负载调整率 Load regulation	±1.0%	±1.0%
输入 Input	保持时间 Hold-up time	16ms (115Vac/100%load, 230Vac/100% load)	
	启动时间 Startup time	≤ 3s (115Vac/100% load; 230Vac/100% load)	
	电压范围 Voltage Range	90~264Vac 或 127 ~ 370VDC	
	频率范围 Frequency Range	47~63Hz	
	输入电流 Input Current	5.5A/115Vac, 2.5A/230Vac	
	功率因数 PF	PF>0.95/230VAC, PF>0.99/115VAC (100% load)	
	浪涌电流 Inrush Current	35A / 115Vac / 230Vac Cold start	

	效率 Efficiency	94.5%	94.5%	
保护 Protections	过电压 OVP	29 ~ 35V	56 ~ 65V	
	过负载 OCP	26 ~ 34A	13 ~ 19A	
	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% ~ 95% 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: 2000Vac/2828Vdc; O/P - FG: 500Vac/707Vdc		
	绝缘阻抗 Insulating resistance	≥100Mohm (500VDC / 25°C / 90% RH)		
	泄漏电流 Leakage Current	<0.8mA / 240VAC		
	电磁兼容 EMC	IEC/EN55032 (CISPR32) Class B, IEC/EN55035, IEC/EN61000-3-2		
		Conducted	CISPR32 / EN55032	CLASS B
		Radiated	CISPR32 / EN55032	CLASS B
		Harmonic Current	IEC/EN61000-3-2	-----
		Voltage Flicker	IEC/EN61000-3-3	-----
		ESD	IEC/EN61000-4-2	Level 1, Contact±8KV /Level 1, Air ±15KV
		Radiated	IEC/EN61000-4-3	Level 3
		EFT / Burst	IEC/EN61000-4-4	Level 1, ±4KV
		Surge	IEC/EN61000-4-5	Level 1, 4KV/Line-Earth ; Level 1, 2KV/Line-Line
		Conducted （抗扰度）	IEC/EN61000-4-6	Level 3
		Magnetic Field	IEC/EN61000-4-8	Level 4
		Voltage Dips and Interruptions	IEC/EN61000-4-11	Level 1, 0% dip 10mS (110Vac) ; Level 2, 0% dip 20mS (220Vac) ; Level 2, 70% dip 500mS ; Level 2, 0% dip 5000mS
其它 Others	质保期 Warranty	3Years		
	MTBF	Telcordia SR-332 (Bellcore) ≥500K hrs		
	尺寸 SIZE	131.5mm *125mm * 55.0mm (D * H * W) / 不含卡扣		
	包装 Packing	0.93Kg +/-10%(含卡扣); 14PCS/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 1°C/200m

When the power supply is working above an altitude of 2000m, the Ta must be derated by 1°C/200m

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. 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.

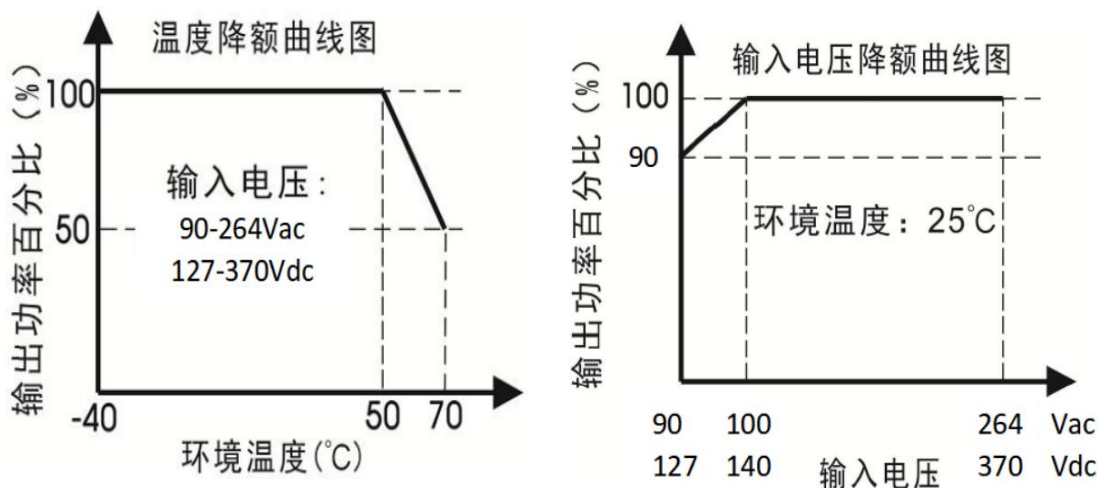
6. 纹波和噪声的测试方法采用双绞线连接, 输出并联 47μF 低 ESR 电容和 0.1μF 陶瓷电容, 在 20MHz 带宽下进行量测。

The test method of ripple and noise is connected by twisted pair, the output is in parallel with 47μF low ESR capacitor and 0.1μF ceramic capacitor, and the measurement is carried out at 20MHz bandwidth.

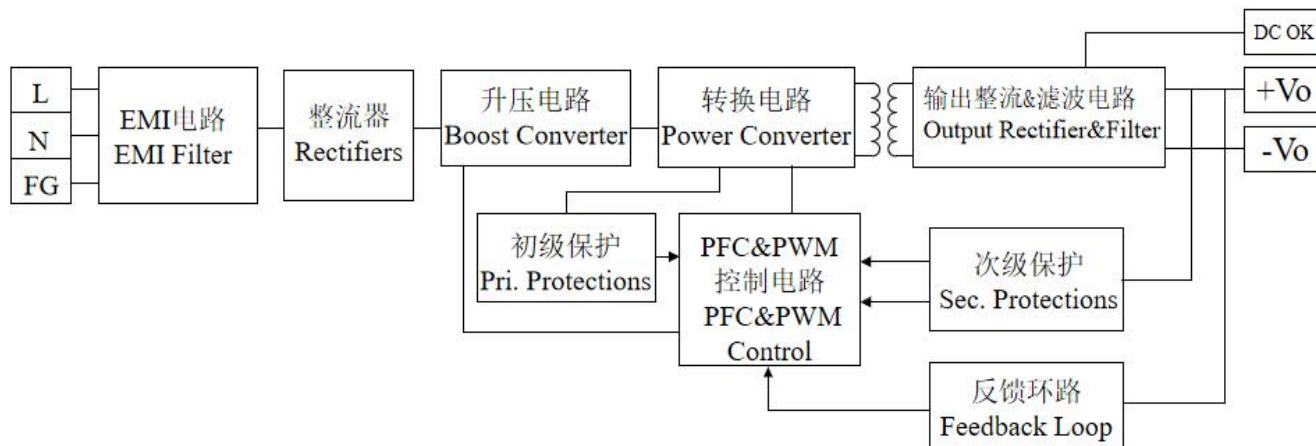
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■ 降额曲线 Derating Curve

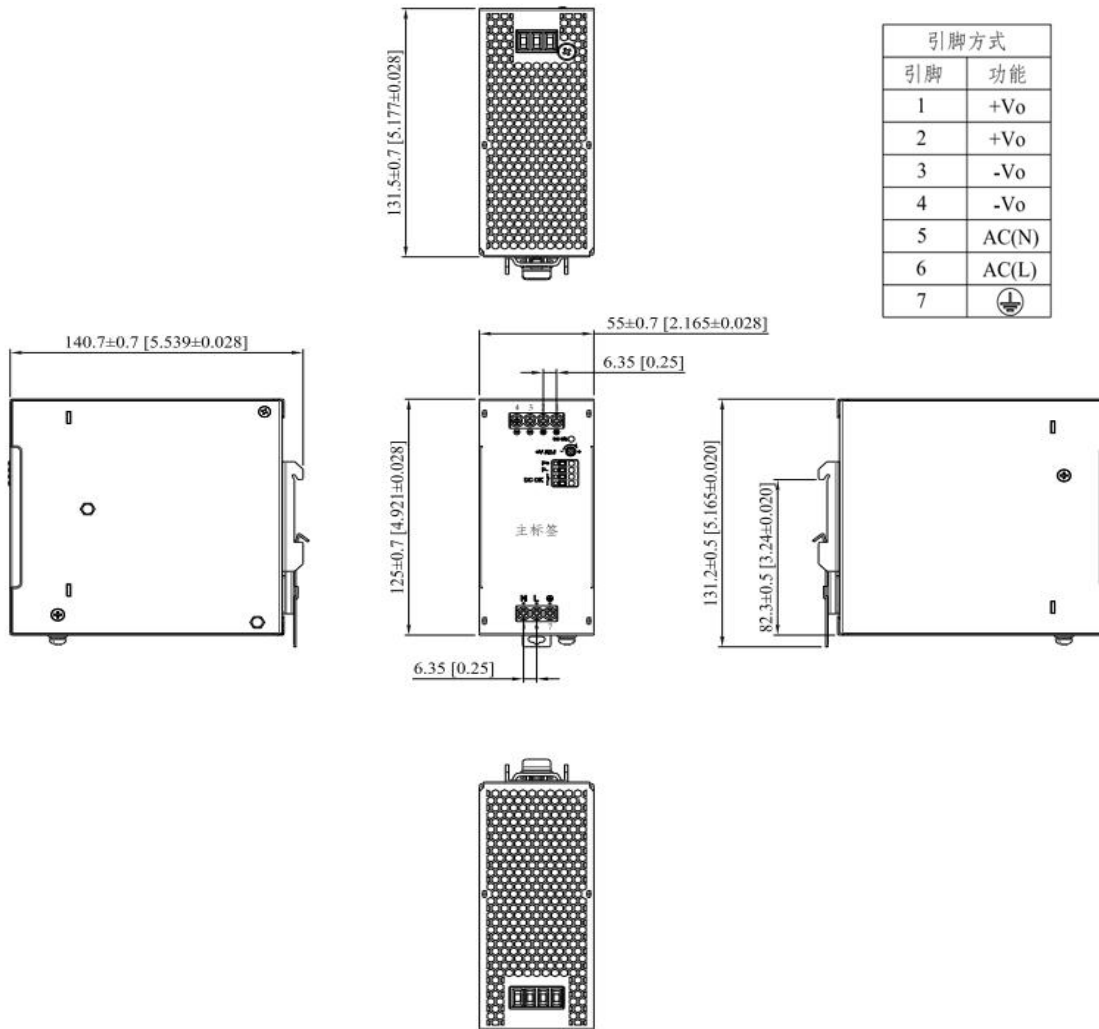


■ 方框图 Block Diagram



结构参数 Mechanical Overview

■ 结构尺寸 Shape Size



面板端子引脚描述 Panel Terminal PIN Description

引脚编号 Pin number	P+	P-	DC OK	DC OK
引脚功能 Pin Feature	均流 +load-share	SGND load-share	有 DC OK 功能 with DC OK function 30VDC/1A Max	
均流 load-share ， DC OK 功能				

* 安装手册请查阅网址: <https://www.gwpst.com>

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