

■ 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/CB/UL
	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.

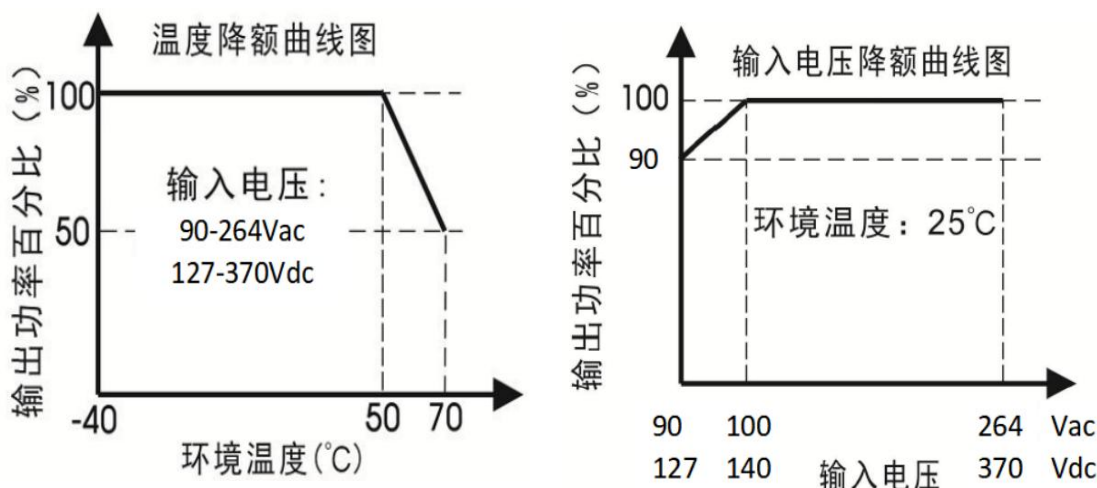
通用参数 General Specification

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%
	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)	
输入 Input	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	

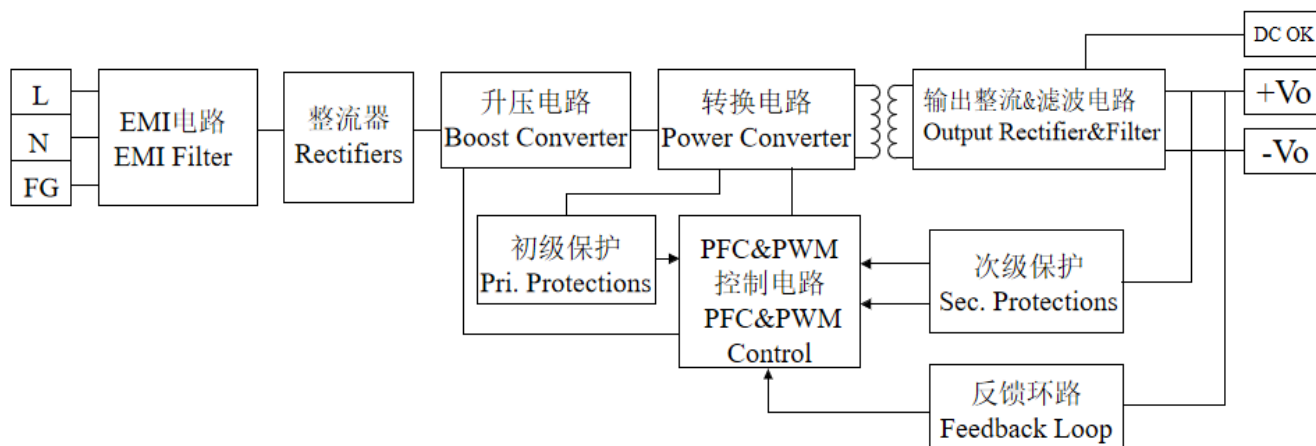
	效率 Efficiency	94.5%	94.5%	
保护 Protections	过电压 OVP	29 ~ 35V	56 ~ 65V	
	过负载 OCP	26 ~ 34A	13 ~ 19A	
	过温度 OTP	打嗝模式，异常条件移除后可自动恢复 Hiccup mode, The PSU can be Auto-recovered when the fault is removed		
	短路 OSP	打嗝模式，异常条件移除后可自动恢复 Hiccup mode, The PSU can be Auto-recovered when the fault is removed		
环境 Environmental	工作温度 Operating Temperature	-40 ~ +70℃ 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℃		
	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℃ / 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℃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 $1^{\circ}\text{C}/200\text{m}$
- When the power supply is working above an altitude of 2000m, the T_a must be derated by $1^{\circ}\text{C}/200\text{m}$
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 $47\mu\text{F}$ 低 ESR 电容和 $0.1\mu\text{F}$ 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 $47\mu\text{F}$ low ESR capacitor and $0.1\mu\text{F}$ 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.cn>
- Disclaimer: Details please refer to <https://www.gwpst.com>

■ 降额曲线 Derating Curve

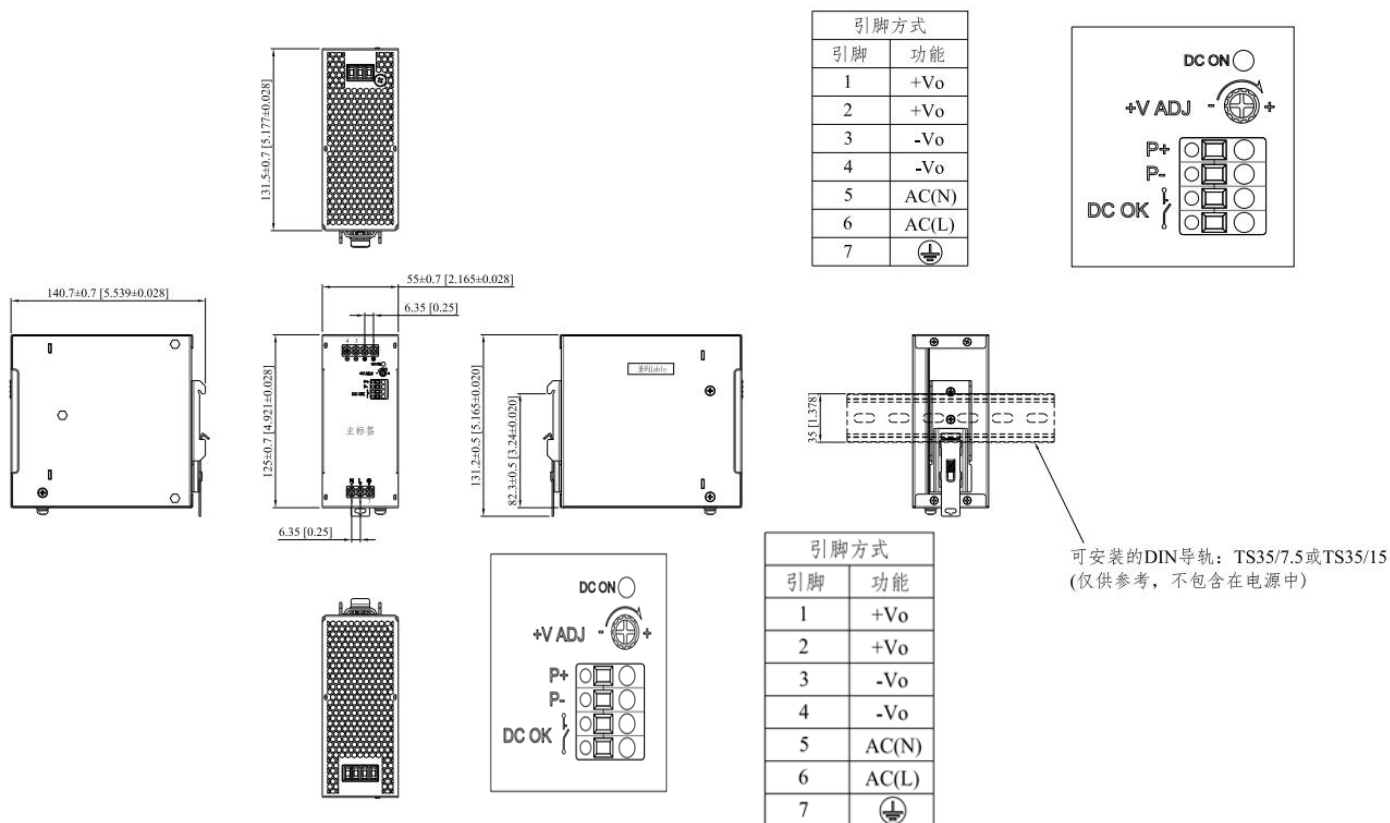


■ 方框图 Block Diagram



结构参数 Mechanical Overview

■ 结构尺寸 Shape Size



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