

■ 特性 Features:

- 输入电压范围: 85-277Vac/120-390Vdc
The input voltage range : 85-277Vac/120-390Vdc
- 工作温度高达 85℃
Operating temperature up to 85℃
- 效率高达 95%
The efficiency is up to 95%
- 支持 5+1 母线并联均流
Support the 5+1 bus line parallel flow
- 电源输出 LED 指示灯, 并有 AC OK 和 DC OK 功能
PSU output LED indicator with AC OK and 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
- 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
- 150% 峰值功率持续 5 秒输出
150% peak power output for 5 seconds
- 112% 静态功率可持续输出
112% static power sustainable output
- 内置主动 PFC 功能
Build in APFC
- 高可靠性, 双面三防漆、防盐雾、防爆
High reliability, three kinds of anti-paint, anti-salt fog and explosion proof
- 五年质保
Five years warranty
- 支持 ModBus 通信协议
Support Modbus communication protocol



■ 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:

DR960S 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 40 毫米宽度。整个系列采用从 85Vac 到 277Vac 全范围交流输入, 提供 24V、48V 单路输出, 输出总功率 960W。通过 CCC/CE 认证, 符合欧盟 RoHS2.0 指令。

The DR960S 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-35/7.5, and designed to save the inner body of the space cabinet by 40 mm width. The entire series adapts a full range AC input from 85vac to 277vac, providing single output of 24V, 48V, with a total output power of 960W, 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
960W	GW-DR960S-24	960W	85-277Vac/ 120-390Vdc	24V	40A	95.2	CCC/CE
	GW-DR960S-48	960W		48V	20A	95.6	

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

通用参数 General Specification

型号 MODEL		DR960S-24	DR960S-48
输出 Output	输出电压 Output Voltage	24V	48V
	额定电流 Output Current	40A	20A
	电流范围 Current Range	0~40A	0~20A
	额定功率 Output Power	960W	960W
	纹波与噪声 Ripple and Noise _(备注 5)	240mV	300mV
	电压调整范围 Adj-voltage range	24~28V	48~56V
	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	20ms (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	85~277Vac	
	频率范围 Frequency Range	47~63Hz	

	输入电流 Input Current	12A/115Vac, 6A/230Vac	
	功率因数 PF	PF>0.95/230VAC (100% load), PF>0.98/115VAC (100% load)	
	浪涌电流 Inrush Current	30A / 115Vac, 30A / 230Vac (Cold start)	
	效率 Efficiency	95.2%	95.6%
保护 Protections	过电压 OVP	≤35VDC (输出电压关断或钳位, 自恢复)	≤60VDC (输出电压关断或钳位, 自恢复)
	过负载 OCP	48 ~ 60A	24 ~ 30A
	过温度 OTP	关断主路输出电压, 异常条件移除后可自动恢复 Close the main road output voltage, 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 Environment al	工作温度 Operating Temperature	-40 ~ +85°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	EN 62368-1、BS EN62368-1、IEC/UL62368-1、 IEC/ENUL61010-1、 GB4943.1、 EN61558-1、EN62477-1、 IEC60079-0、IEC60079-7、IEC60079-15、GB3836.1、 NB/T31017、ANSI/ISA 71.04-2013	
	耐压 Hi-pot	I/P - O/P: 4000Vac/5656Vdc; I/P - FG: 2500Vac/3535Vdc; O/P - FG: 500Vac/707Vdc	
	绝缘阻抗 Insulating resistance	≥50Mohm (500VDC / 25°C / 65% RH)	
	静电放电 ESD	IEC/EN61000-4-2, CLASS A; Contact1±8KV / Air ±15KV ;	
	电磁兼容 EMC	CISPR32 / EN55032, CLASS B	
	谐波 harmonic	IEC61000-3-2, CLASS A and CLASS D	
其它 Others	质保期 Warranty	5Years	
	MTBF	MIL-HDBK-217F @40°C, ≥524K hrs	
	尺寸 SIZE	133mm * 130mm * 125mm (L * W * H)	
	包装 Packing	2.5KG;6pcs/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. 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.

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.

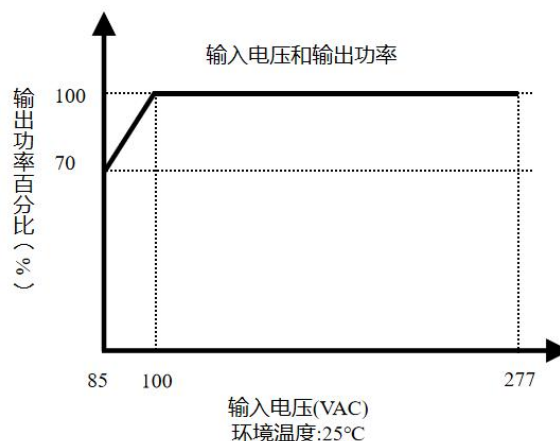
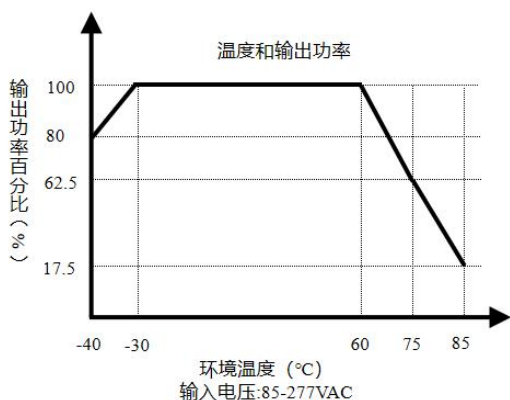
6. 在调节输出电压的情况下, 输出电压超过额定输出电压时总功率不得超过 960W

In the case of regulating the output voltage, the output voltage exceeds the total power of the rated output voltage to be more than 960w

*产品免责声明: 详情请参阅网址 <https://www.greatwall.tmall.com>

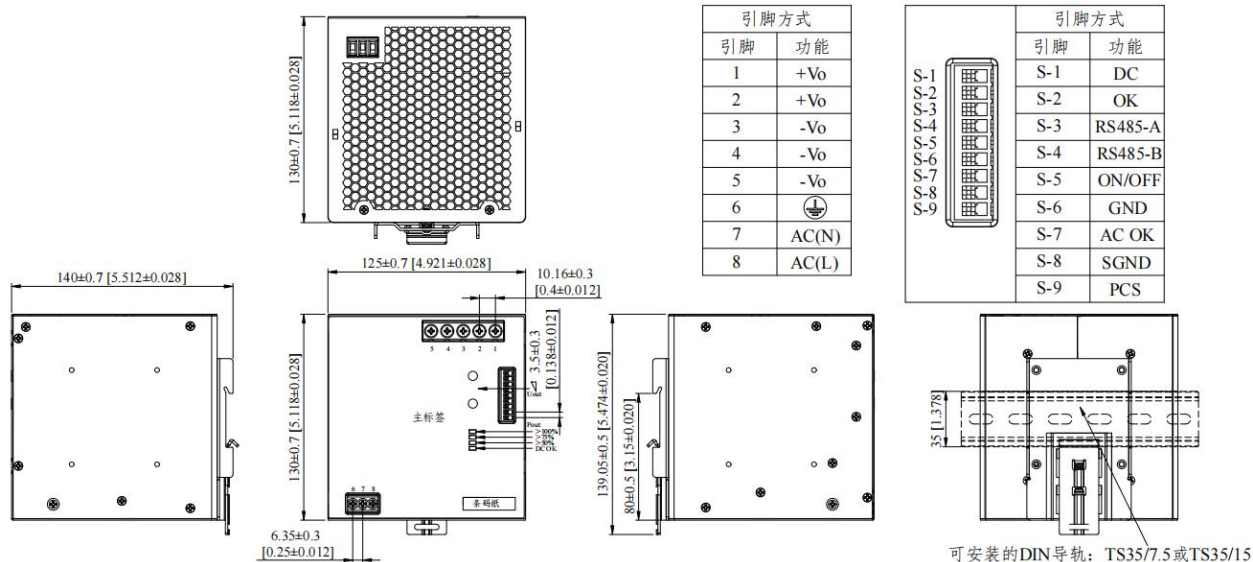
Disclaimer: Details please refer to <https://www.greatwall.tmall.com>

■ 降额曲线 Derating Curve

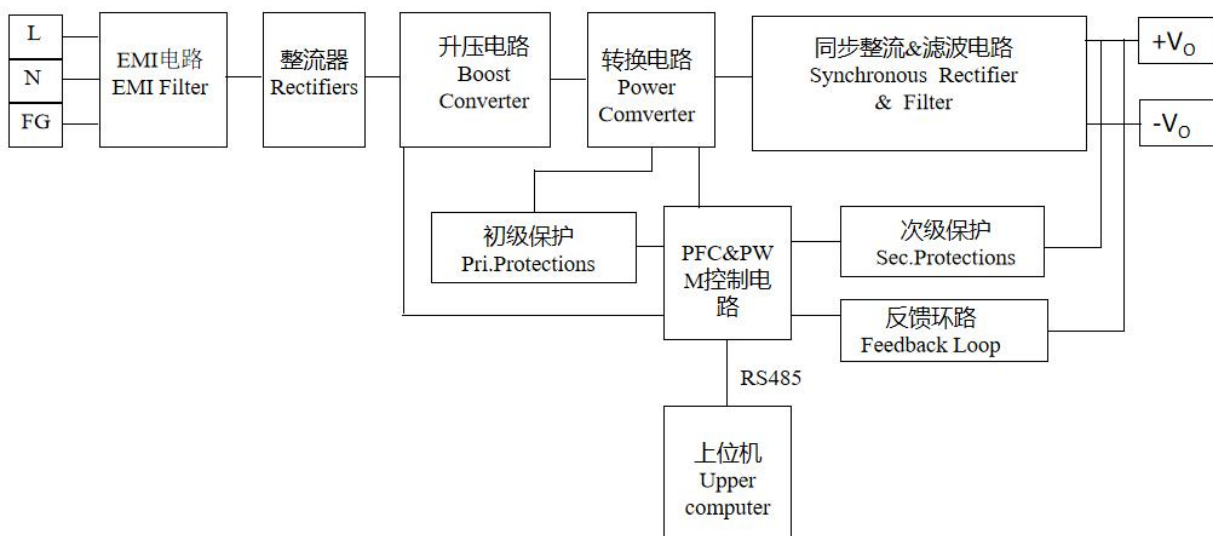


结构参数 Mechanical Overview

■ 结构尺寸 Shape Size



■ 方框图 Block Diagram



* 安装手册请查阅网址: <https://www.greatwall.tmall.com>

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