

SUNCOM 新创电源	产品类型	LED 驱动电源 LED INTEGRATED SPECIAL DRIVER		
	产品系列	GEP-150-XX系列	REV	V2.2

广东新创电源科技有限公司

客户承认书

SPECIFICATION FOR APPROVAL

CUSTOMER/客户名:	
MODEL NO. /产品型号:	GEP-150-XX系列
Rev. /版本号	V2.2
SAMPLE DATE/送样日期:	

客户确认栏

TESTED BY 检查	CHECKED BY 审核	APPROVED BY 批准
客户备注		

Please return to us one copy of “SPECIFICATION FOR APPROVAL” with you approved signature. /客户确认签章后请回传一份承认书给我公司.

新创确认栏

TESTED BY 检查	CHECKED BY 审核	APPROVED BY 批准

Guangdong Suncom Power Technology Co., Ltd.

广东新创电源科技有限公司

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◆ Features 产品特性:

- Input Rated voltage : 100-277Vac 50Hz/60Hz
输入额定电压范围:100-277Vac 50Hz/60Hz
- Isolate, Constant current mode output
隔离, 恒流模式输出
- Surge Protection: L-N :4KV; L/N- E:6KV
防雷保护: 火线对零线4KV, 火线/零线对地6KV
- Input over-voltage protection
输入过压保护
- Over temperature drop current
过温降电流
- THD<10%



◆ Applications 产品应用:

Application: Street light、high bay lighting and other lighting lamps

应用于: 路灯、工矿灯等照明灯具

◆ Description 产品描述:

This product is a constant current driver, Specially designed for LED, With low harmonic (< 10%), High power factor. high efficiency Built-in Surge protection, over voltage protection, Output open circuit、short circuit Protection,Over temperature drop current Greatly improve the safety and reliability of the product.

本产品为恒流驱动电源, 专为LED设计, 具有低谐波(<10%)、高功率因数、高效率。内置防雷保护, 过压保护; 输出开路、短路保护, 过温降电流.极大的提高了产品的安全可靠性能。

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MODEL LIST 型号列表

Model 型号	Rated Power 额定输出功率	Input Voltage 输入电压	Output Voltage 输出电压范围	Output Current 输出电流	THD. (Typ)	PF. (Typ)
GEP-150-90	150W	100-277Vac	54-90V	1700mA	8.3%	0.97
GEP-150-54	150W	100-277Vac	34-54V	2800mA	9.0%	0.97
GEP-150-42	150W	100-277Vac	30-42V	3700mA	7.0%	0.97
GEP-150-36	150W	100-277Vac	25-36V	4500mA	6.5%	0.97

NOTE: All parameters NOT special mentioned are measured at 230Vac input, rated load and 25℃ of ambient temperature ; 如未特殊注明，所有参数均在 230Vac 输入、额定负载、25℃环境温度下测量

ELECTRICAL SPECIFICATION 电气规格

输入性能 Input performance:

Parameter 参数	Min. 最小值	Typ. 典型值	Max. 最大值	Notes. 备注
Voltage Range 电压范围	90Vac	100-277Vac	305Vac	
Frequency Range 频率范围	47Hz	50/60Hz	63Hz	
AC Current 交流电流	-	-	2A	
Inrush Current 浪涌电流	-	-	30A	At 230Vac input, 25℃ cold start 环温 25℃，230Vac 冷机启动
PF. 功率因数 At 230V AC input, full load 满载，输入 230Vac 下测量	0.95	0.97	-	-
THD. 总谐波失真 At 230V AC input, full load 满载，输入 230Vac 下测量	-	8.3%	10%	GEP-150-90
	-	9.0%	10%	GEP-150-54
	-	7.0%	10%	GEP-150-42
	-	6.5%	10%	GEP-150-36
Input Over-voltage protection 输入过压保护	320Vac	330Vac	340Vac	Turn off the output voltage and resume work after the AC voltage is normal 关断输出电压，交流电压正常后恢复工作

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◆ 输出性能：Output performance

Parameter 参数	Min. 最小值	Typ. 典型值	Max. 最大值	Notes. 备注
Voltage Range 电压范围	54VDC	—	90VDC	GEP-150-90
	34VDC	—	54VDC	GEP-150-54
	30VDC	—	42VDC	GEP-150-42
	25VDC	—	36VDC	GEP-150-36
Current Setting Range 电流设置范围 (常规为典型值±5%)	1200mA	1700mA	2200mA	GEP-150-90
	2000mA	2800mA	3000mA	GEP-150-54
	2500mA	3700mA	3800mA	GEP-150-42
	3000mA	4500mA	4500mA	GEP-150-36
Rated Power 额定功率	—	—	150W	—
Over Voltage 空载电压	100V	—	110V	GEP-150-90
	65V	—	70V	GEP-150-54
	50V	—	55V	GEP-150-42
				GEP-150-36
Efficiency 效率 Measured at full load and 230Vac input	≥91%	91.6%	—	GEP-150-90
	≥90%	90.7%	—	GEP-150-54
	≥89%	89.8%	—	GEP-150-42
	≥89%	89.2%	—	GEP-150-36
Current Tolerance 电流精度	-5%	—	+5%	—
Line Regulation 线性调整率	-3%	—	+3%	—
Load Regulation 负载调整率	-3%	—	+3%	—
Current Ripple 纹波电流	—	±41%	<±45%	GEP-150-90
	—	±45%	<±50%	GEP-150-54
	—	±48%	<±50%	GEP-150-42
	—	±49%	<±50%	GEP-150-36
Turn-on Delay Time 启动时间	—	580mS	<1S	Measured at full load and 230Vac input
Short Circuit Protection 短路保护	—	—	2W	Hiccup mode, recovers automatically after fault condition is removed 打嗝模 式，故障排除后自动恢复

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■ 环境：Environment

Parameter 参数	Min. 最小值	Typ. 典型值	Max. 最大值	Notes. 备注
Working TEMP 工作温度	-40℃	+25℃	+65℃	-
Storage TEMP 储存温度	-40℃	+25℃	+85℃	-
Working Humidity 工作湿度	20% RH	-	90% RH	-
Storage Humidity 储存湿度	10% RH	-	90% RH	-
Maximum shell TEMP 最大壳温	-	-	+90℃	-

■ 安规和电磁兼容：

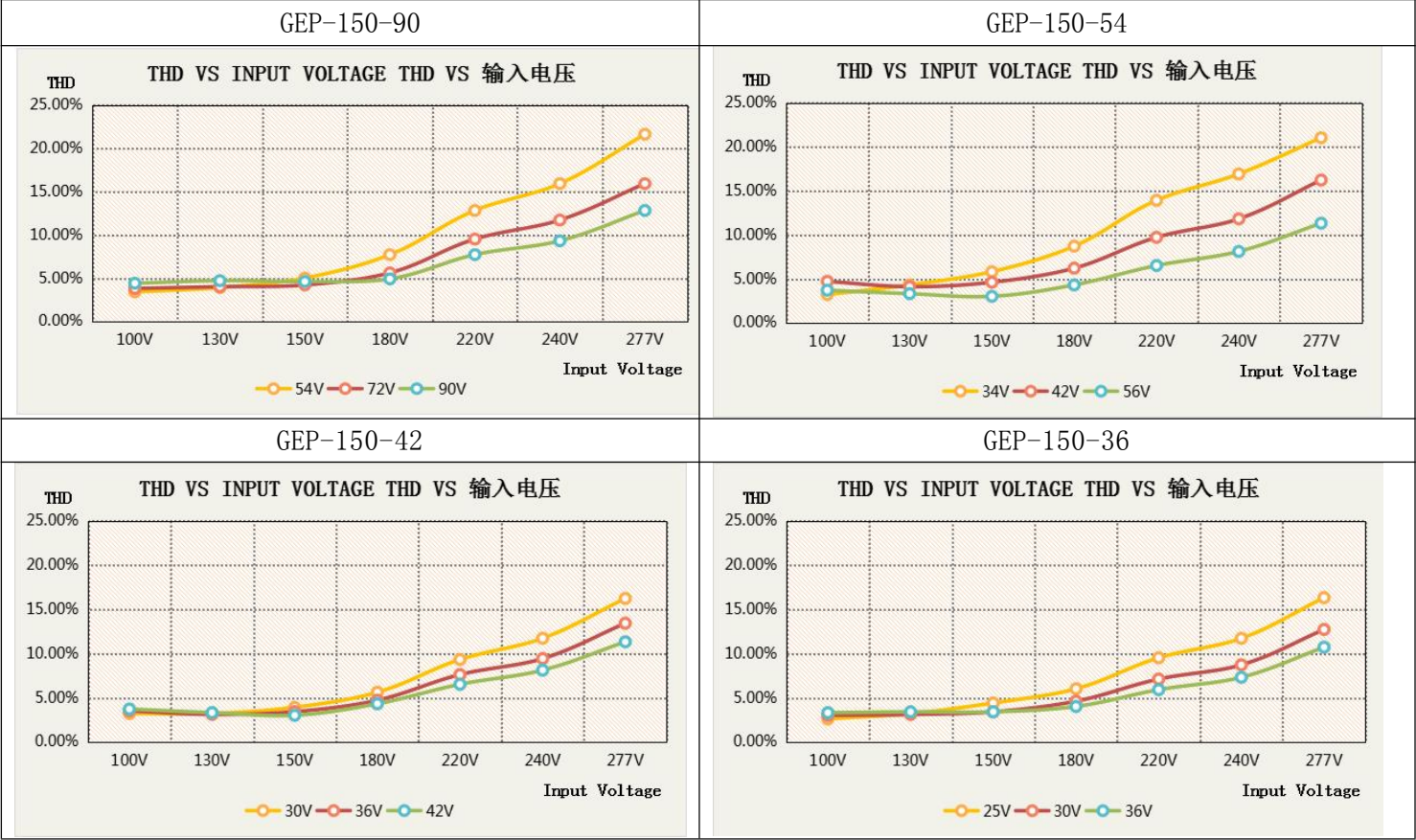
Withstand voltage 耐压	I/P - FG:1.75KVAC, I/P-O/P:3KVAC
isolation resistance 绝缘阻抗	≥10MΩ at I/P - FG 500VDC Test
leakage current 漏电流	<0.75mA/277Vac
Earthing resistance 接地电阻	<0.1Ω / 25A 1 min
Surge 浪涌	差模 L-N +/- 4KV (2 ohm), 共模 L, N-E +/- 6KV (12 ohm)
conducted electromagnetic interference 传导	>3db
Radiated electromagnetic interference 辐射	>3db

NOTE:

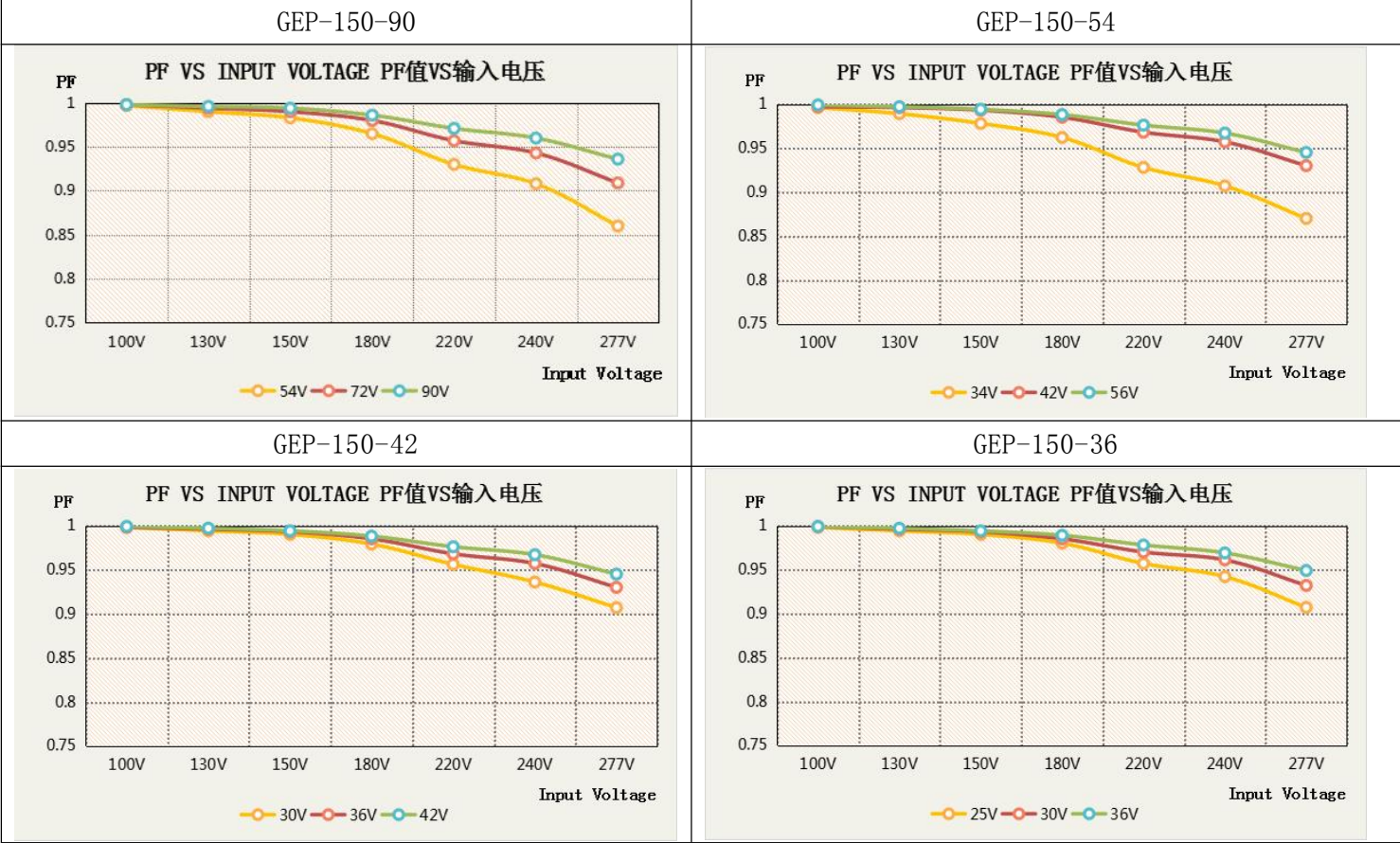
- 1) All parameters NOT specially mentioned are measured at 230Vac (50Hz) input, rated load and 25℃ of ambient temperature.
如未特别说明，所有规格参数均在 230Vac (50Hz) 输入，额定负载，环境温度 25℃ 的条件下进行测量
- 2) Tolerance : includes set up tolerance, line regulation and load regulation.
误差：包含设定误差、线性调整率和负载调整率。

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THD VS INPUT VOLTAGE THD VS 输入电压

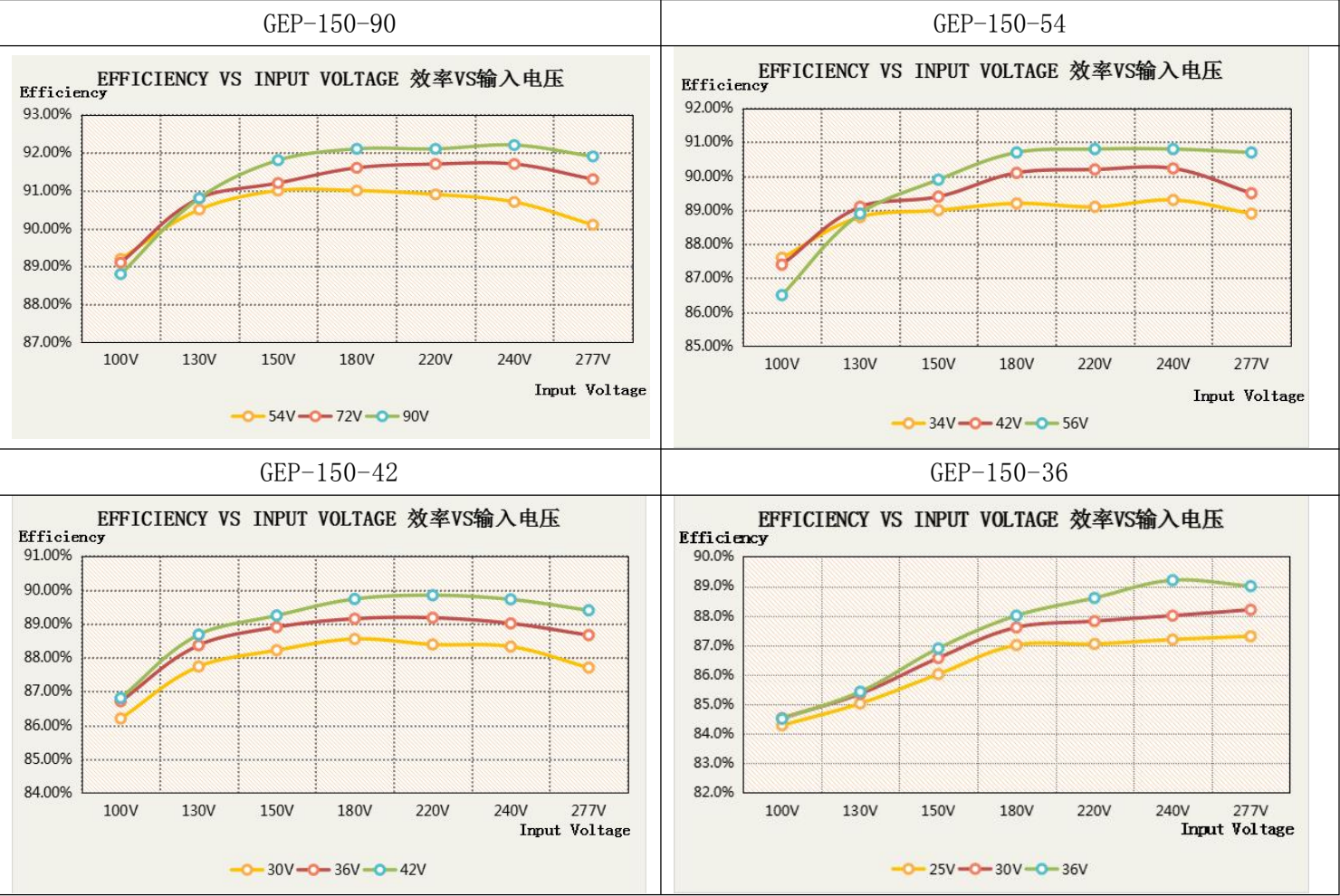


PF VS INPUT VOLTAGE PF 值 VS 输入电压



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EFFICIENCY VS INPUT VOLTAGE 效率 VS 输入电压



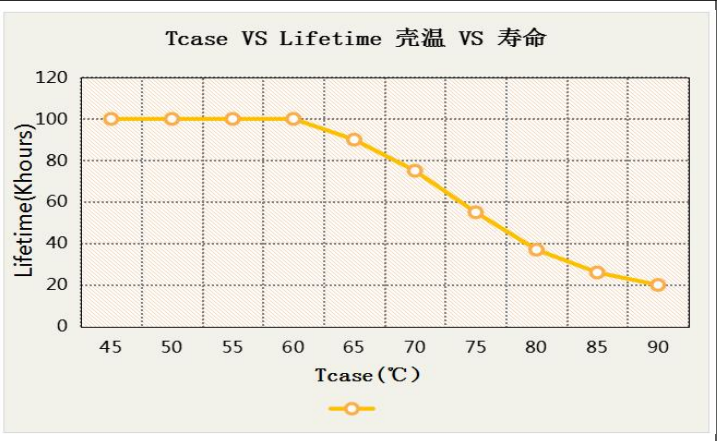
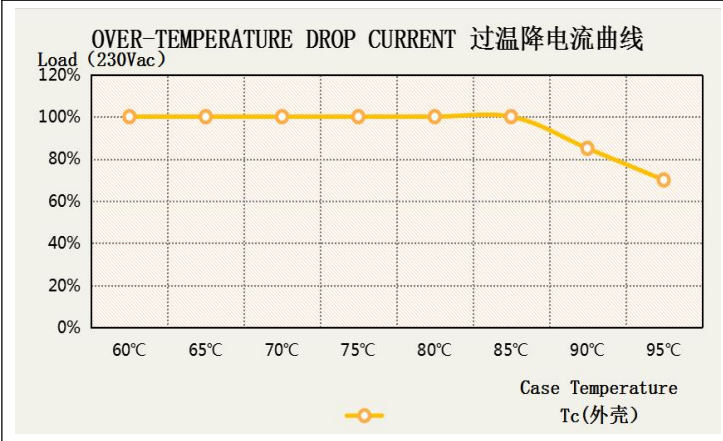
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OVER-TEMPERATURE DROP CURRENT

TCASE VS LIFETIME

过温降电流曲线

壳温VS寿命

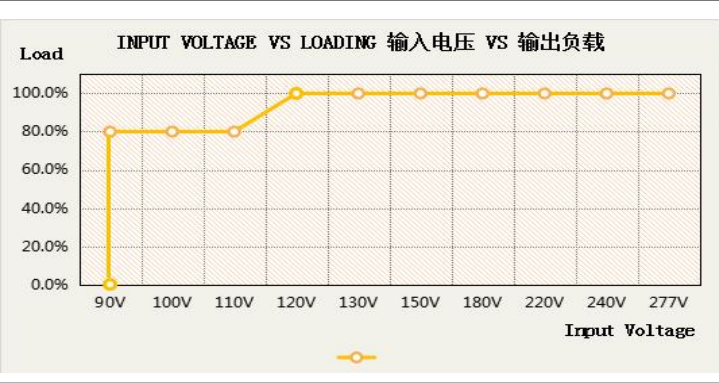
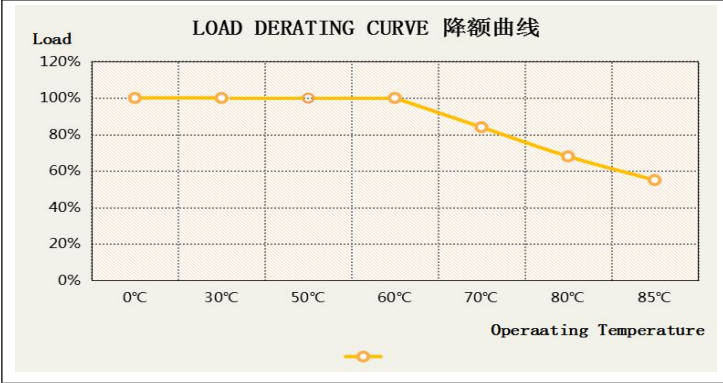


LOAD DERATING CURVE

INPUT VOLTAGE VS LOADING

降额曲线

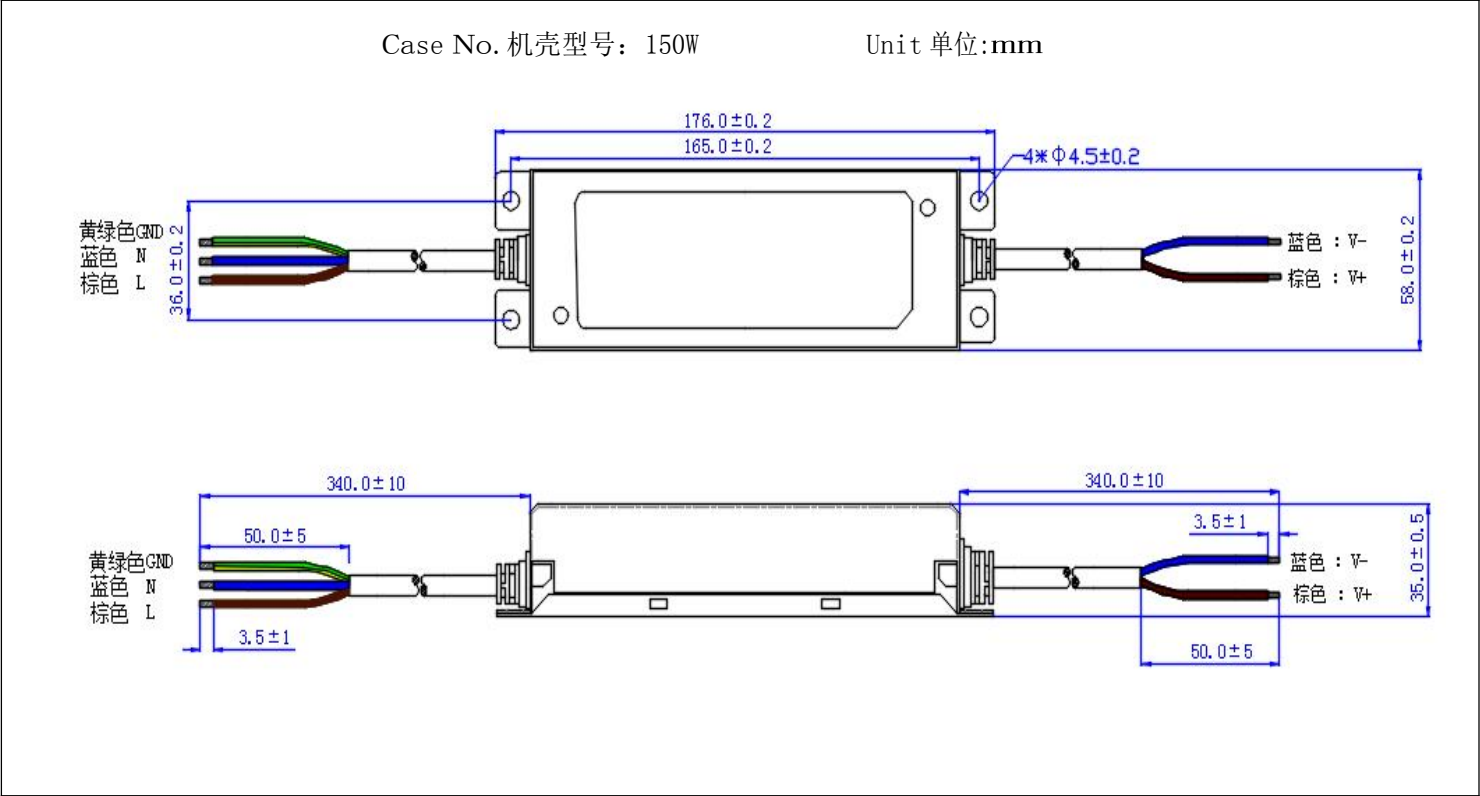
输入 电压 VS 输出负载



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MECHANICAL SPECIFICATION & PACKING 机械尺寸图 & 包装:

Bare plate dimension 裸板尺寸	141.4*52*28mm (L*W*H)
Complete product dimension 成品尺寸	176*58*36mm (L*W*H)
Product Weight 产品重量	660g



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Nameplate 铭牌

尺寸: 118*38mm 样式: 贴纸

GEP-150-36

SUNCOM

GEP-150-36

(型号)LED控制装置

INPUT 输入端

○ ACN(BU蓝)

○ ACL(BN棕)

⊕ (GN绿/YL黄)

MADE IN CHINA

(中国制造)

Vin(输入):100-277V~2A 50/60Hz

Vout(输出):25-36V $\pm$ 4500mA $\pm$ 5%

η : $\geq$ 89%

PF: $\geq$ 0.95

•tc

Max.Uout(最大电压): 55V $\pm$

Rated Power(额定功率):150W

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GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD

tc:90°C

ta:50°C@Vin100-200V~

ta:60°C@Vin200-277V~

OUTPUT 输出端

(BU蓝)Vo - ○

(BN棕)Vo + ○

CE

IP65

SELV

GEP-150-42

SUNCOM

GEP-150-42

(型号)LED控制装置

INPUT 输入端

○ ACN(BU蓝)

○ ACL(BN棕)

⊕ (GN绿/YL黄)

MADE IN CHINA

(中国制造)

Vin(输入):100-277V~2A 50/60Hz

Vout(输出):30-42V $\pm$ 3700mA $\pm$ 5%

η : $\geq$ 89%

PF: $\geq$ 0.95

•tc

Max.Uout(最大电压): 55V $\pm$

Rated Power(额定功率):150W

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GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD

tc:90°C

ta:50°C@Vin100-200V~

ta:60°C@Vin200-277V~

OUTPUT 输出端

(BU蓝)Vo - ○

(BN棕)Vo + ○

CE

IP65

SELV

GEP-150-54

SUNCOM

GEP-150-54

(型号)LED控制装置

INPUT 输入端

○ ACN(BU蓝)

○ ACL(BN棕)

⊕ (GN绿/YL黄)

MADE IN CHINA

(中国制造)

Vin(输入):100-277V~2A 50/60Hz

Vout(输出):34-54V $\pm$ 2800mA $\pm$ 5%

η : $\geq$ 90%

PF: $\geq$ 0.95

•tc

Max.Uout(最大电压): 70V $\pm$

Rated Power(额定功率):150W

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GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD

tc:90°C

ta:50°C@Vin100-200V~

ta:60°C@Vin200-277V~

OUTPUT 输出端

(BU蓝)Vo - ○

(BN棕)Vo + ○

CE

IP65

SELV

GEP-150-90

SUNCOM

GEP-150-90

(型号)LED控制装置

INPUT 输入端

○ ACN(BU蓝)

○ ACL(BN棕)

⊕ (GN绿/YL黄)

MADE IN CHINA

(中国制造)

Vin(输入):100-277V~2A 50/60Hz

Vout(输出):54-90V $\pm$ 1700mA $\pm$ 5%

η : $\geq$ 91%

PF: $\geq$ 0.95

•tc

Max.Uout(最大电压): 110V $\pm$

Rated Power(额定功率):150W

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GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD

tc:90°C

ta:50°C@Vin100-200V~

ta:60°C@Vin200-277V~

OUTPUT 输出端

(BU蓝)Vo - ○

(BN棕)Vo + ○

CE

IP65

SELV