

SUNCOM 新创电源	产品类型	LED 驱动电源 LED INTEGRATED SPECIAL DRIVER		
	产品系列	GEP-100-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-100-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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	产品类型	LED 驱动电源 LED INTEGRATED SPECIAL DRIVER		
	产品系列	GEP-100-XX系列	REV	V2.2

◆ 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<15%



◆ 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 (< 15%), High Power Factor. High Efficiency. Built-in Surge 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（<15%）、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-100-36	100W	100-277Vac	25-36V	3000mA	6.2%	0.97
GEP-100-42	100W	100-277Vac	30-42V	2500mA	6.4%	0.97
GEP-100-54	100W	100-277Vac	34-54V	1900mA	7.9%	0.97
GEP-100-90	100W	100-277Vac	54-90V	1100mA	9.1%	0.97
GEP-80-42	80W	100-277Vac	25-42V	2200mA	8.4%	0.96
GEP-75-90	75W	100-277Vac	54-90V	790mA	10%	0.96

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	-	-	1.3A	GEP-100-90
				GEP-100-54
				GEP-100-42
				GEP-100-36
	-	-	1A	GEP-80-42
	-	-	1A	GEP-75-90
Inrush Current 浪涌电流	-	-	25A	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	0.96	-	-
THD. 总谐波失真 At 230V AC input, full load 满载, 输入 230Vac 下测量	-	9.1%	15%	GEP-100-90
	-	6.2%	15%	GEP-100-54
	-	6.4%	15%	GEP-100-42
	-	7.9%	15%	GEP-100-36
	-	8.4%	15%	GEP-80-42
	-	10%	15%	GEP-75-90

Over-voltage Protection 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
Over-voltage Recovery Voltage 过压恢复电压	295Vac	300Vac	310Vac	

◆ 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-100-90
				GEP-75-90
	25VDC	—	36VDC	GEP-100-36
	30VDC	—	42VDC	GEP-100-42
	34VDC	—	54VDC	GEP-100-54
Current Setting Range 电流设置范围 (常规为典型值±5%)	25VDC	—	42VDC	GEP-80-42
	700mA	1100mA	1500mA	GEP-100-90
	1300mA	1900mA	2000mA	GEP-100-54
	1600mA	2500mA	2600mA	GEP-100-42
	2000mA	3000mA	3000mA	GEP-100-36
	1200mA	2200mA	2200mA	GEP-80-42
Rated Power 额定功率	700mA	790mA	1100mA	GEP-75-90
	—	—	100W	GEP-100-90
				GEP-100-54
	—	—		GEP-100-42
				GEP-100-36
	—	—	80W	GEP-80-42
Over Voltage 空载电压	—	—	75W	GEP-75-90
	98V	—	110V	GEP-100-90
				GEP-75-90
	48V	—	55V	GEP-100-36
				GEP-100-42
				GEP-80-42
Efficiency 效率 Measured at full load and 230Vac input	60V	—	70V	GEP-100-54
	≥91%	91.6%	—	GEP-100-90
	≥91%	91.2%	—	GEP-100-54
	≥90%	90.8%	—	GEP-100-42
	≥89%	89.8%	—	GEP-100-36
	≥90%	90.9%	—	GEP-80-42
Current Tolerance 电流精度	≥91%	91.3%	—	GEP-75-90
Line Regulation 线性调整率	-5%	—	+5%	—
Load Regulation 负载调整率	-3%	—	+3%	—

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Current Ripple 纹波电流	-	±45%	<±50%	-
Turn-on Delay Time 启动时间	-	800mS	<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

■ 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:3.0KVAC
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

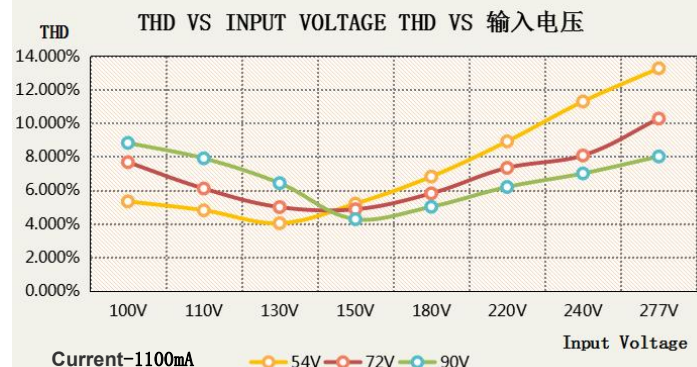
NOTE:

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

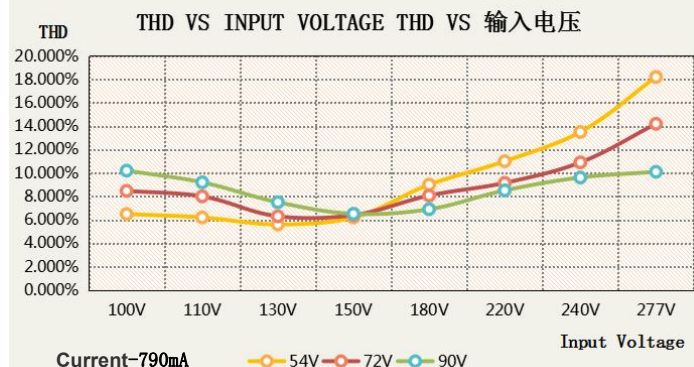
2) Tolerance : includes set up tolerance, line regulation and load regulation.
误差：包含设定误差、线性调整率和负载调整率。

THD VS INPUT VOLTAGE THD VS 输入电压

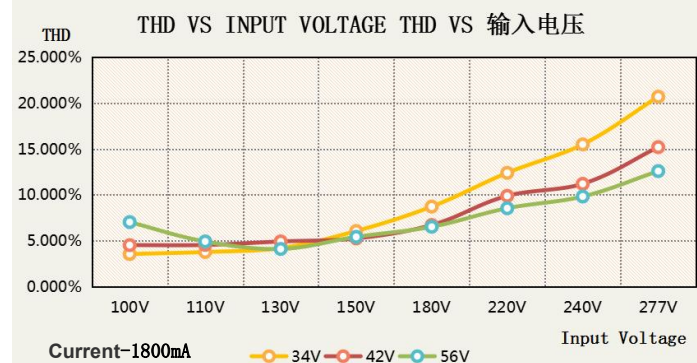
GEP-100-90



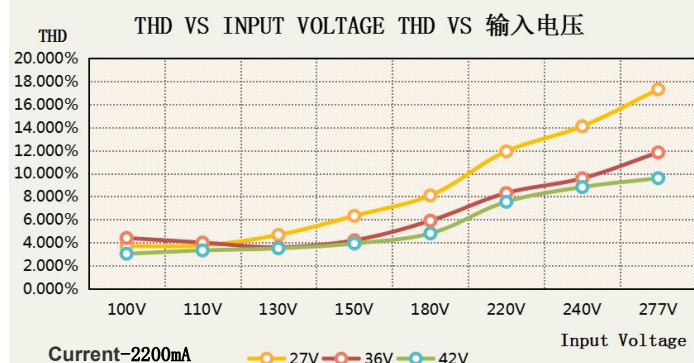
GEP-75-90



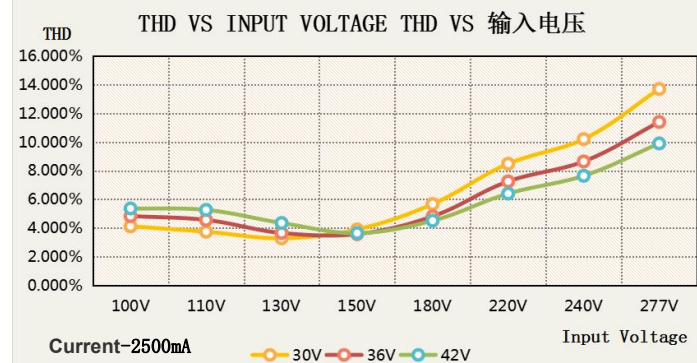
GEP-100-56



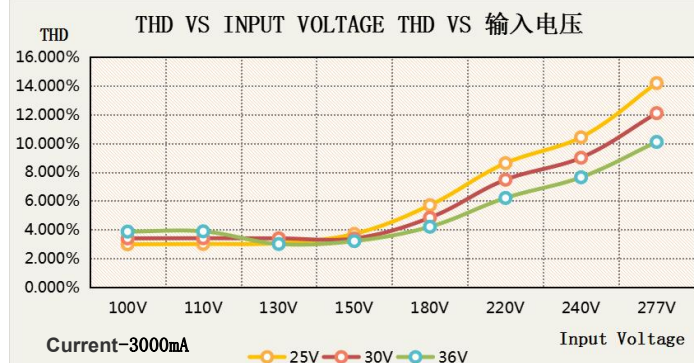
GEP-80-42



GEP-100-42

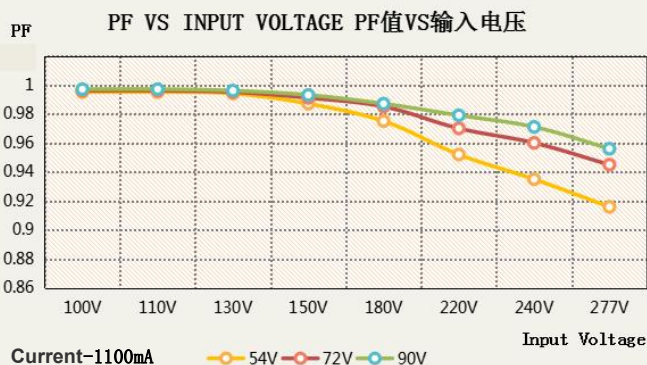


GEP-100-36

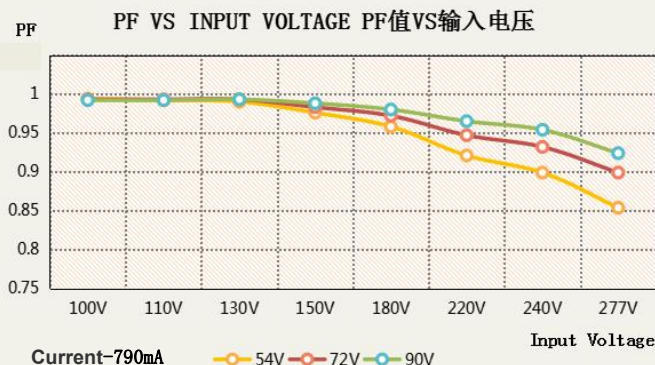


PF VS INPUT VOLTAGE PF 值 VS 输入电压

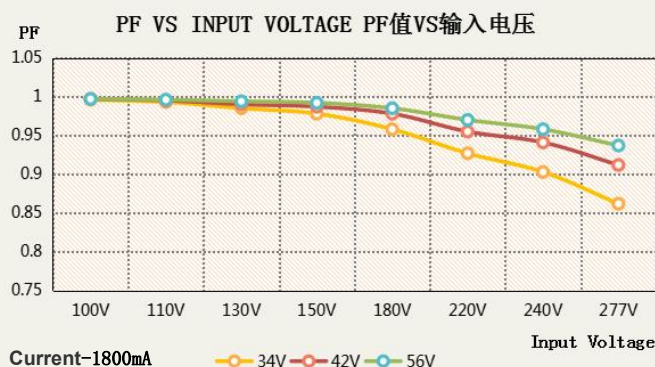
GEP-100-90



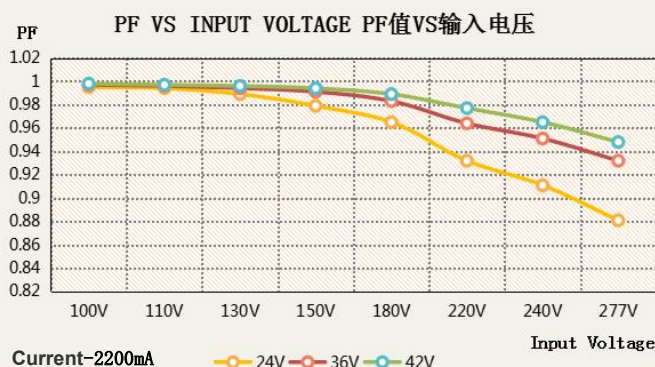
GEP-75-90



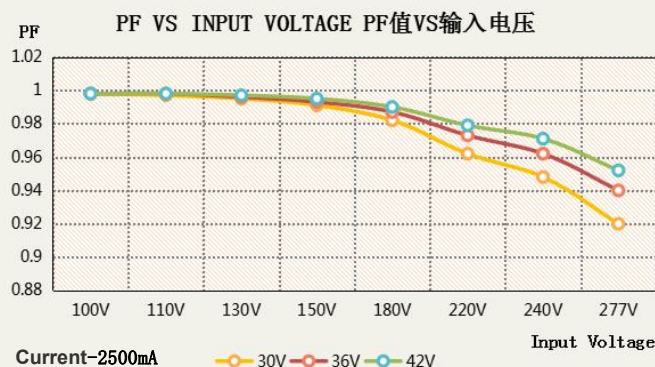
GEP-100-56



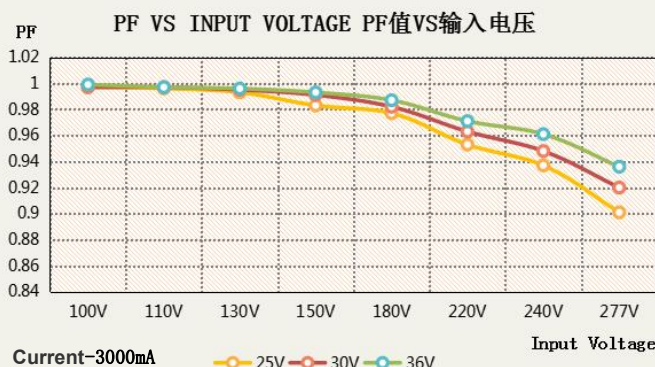
GEP-80-42



GEP-100-42

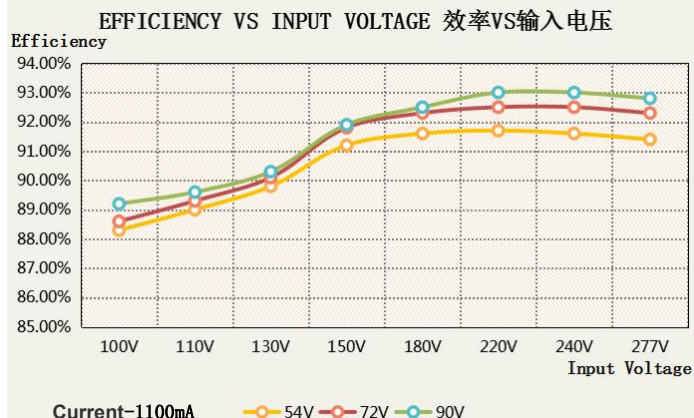


GEP-100-36

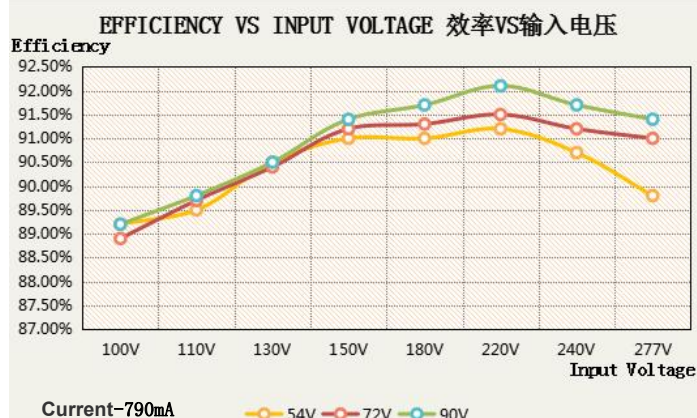


EFFICIENCY VS INPUT VOLTAGE 效率 VS 输入电压

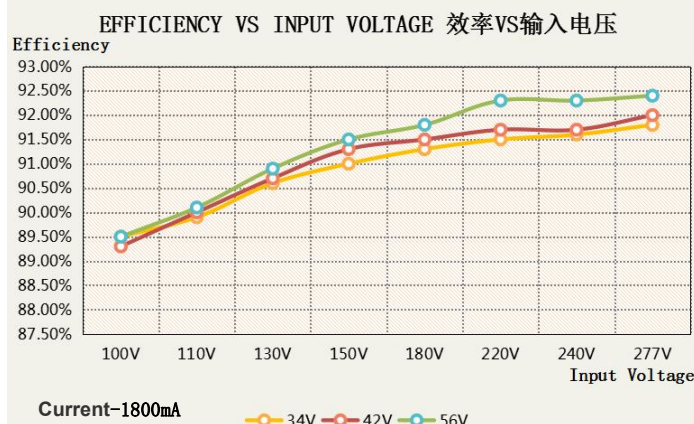
GEP-100-90



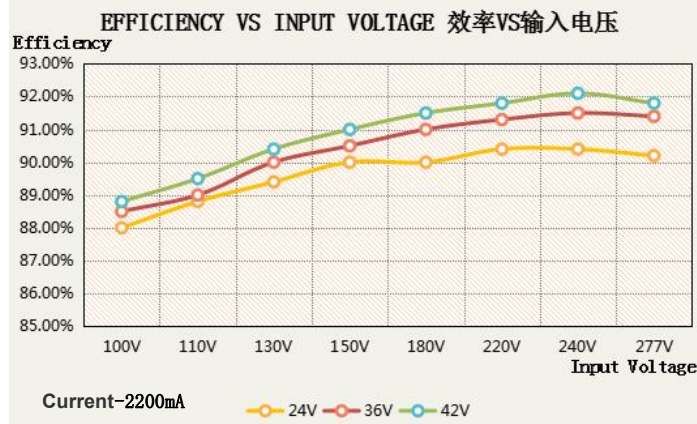
GEP-75-90



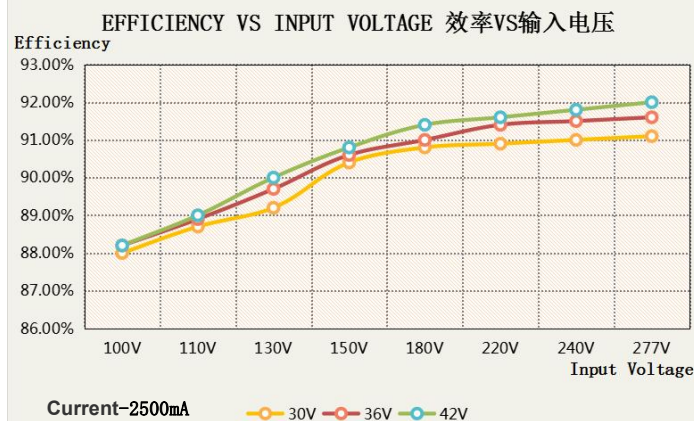
GEP-100-56



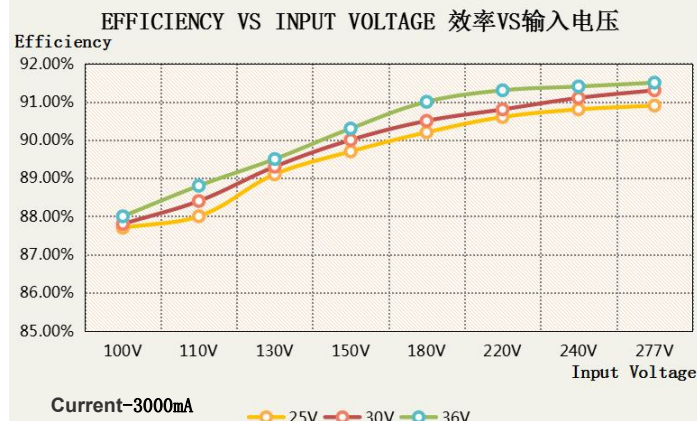
GEP-80-42



GEP-100-42

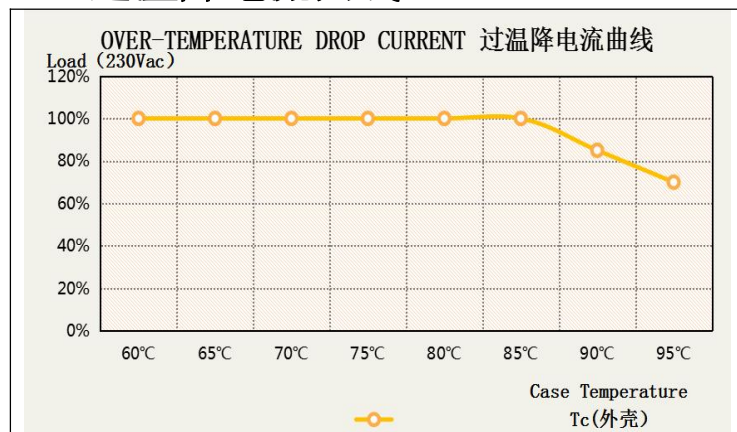


GEP-100-36



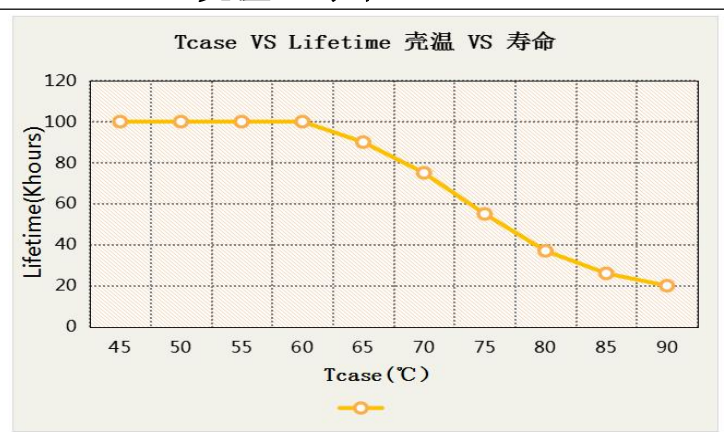
OVER-TEMPERATURE DROP CURRENT

过温降电流曲线



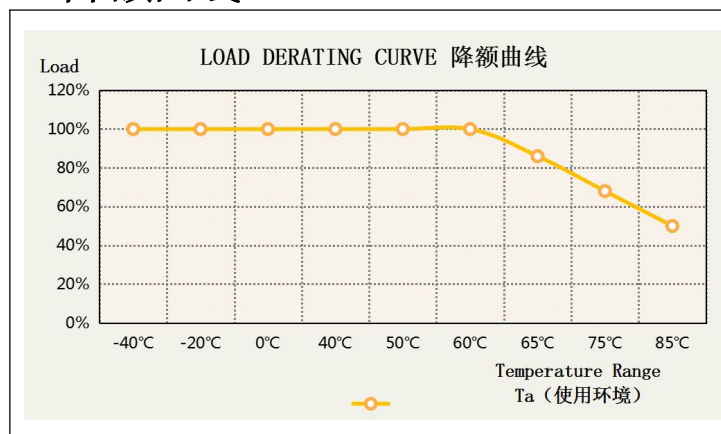
TCASE VS LIFETIME

壳温VS寿命



LOAD DERATING CURVE

降额曲线



INPUT VOLTAGE VS LOADING

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	112*43*26mm (L*W*H)
Complete product dimension 成品尺寸	142*49*33mm (L*W*H)
Product Weight 产品重量	440g

Case No. 机壳型号: 100W Unit 单位:mm

The drawing shows the top and side views of the power supply. The top view indicates a length of 142.0 ± 0.2 mm and a width of 49.0 ± 0.2 mm. There are four mounting holes with a diameter of 4.5 ± 0.2 mm. The side view shows a height of 33.0 ± 0.5 mm and a total length of 340.0 ± 10 mm. Wire color codes are provided: Yellow-Green for GND, Blue for N, and Brown for L. Output wires are Blue for V- and Brown for V+.

Nameplate

铭牌

尺寸: 84*31mm 样式: 贴纸

GEP-100-36	
The nameplate for the GEP-100-36 device includes the following information: SUNCOM GEP-100-36 (型号)LED控制装置. INPUT: ACN (BU蓝), ACL (BN棕), or GN绿/YL黄. V_{in} (输入): 100-277V~1.3A 50/60Hz. η: ≥89%. PF: ≥0.95. V_{out} (输出): 25-36V 3000mA±5%. Max. U_{out} (最大电压): 55V. Rated Power (额定功率): 100W • t_c. Output: (BU蓝) V_o - or (BN棕) V_o +. Manufacturer: 广东新创电源科技有限公司 www.gdsuncom.com GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD. Made in China (中国制造). Certifications: CE, RoHS, IP65, SELV. Temperature ratings: t_c: 90°C, t_a: 50°C@V_{in}100-200V~, t_a: 60°C@V_{in}200-277V~.	
GEP-100-42	
The nameplate for the GEP-100-42 device includes the following information: SUNCOM GEP-100-42 (型号)LED控制装置. INPUT: ACN (BU蓝), ACL (BN棕), or GN绿/YL黄. V_{in} (输入): 100-277V~1.3A 50/60Hz. η: ≥90%. PF: ≥0.95. V_{out} (输出): 30-42V 2500mA±5%. Max. U_{out} (最大电压): 55V. Rated Power (额定功率): 100W • t_c. Output: (BU蓝) V_o - or (BN棕) V_o +. Manufacturer: 广东新创电源科技有限公司 www.gdsuncom.com GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD. Made in China (中国制造). Certifications: CE, RoHS, IP65, SELV. Temperature ratings: t_c: 90°C, t_a: 50°C@V_{in}100-200V~, t_a: 60°C@V_{in}200-277V~.	

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GEP-100-54

SUNCOM
GEP-100-54
(型号)LED控制装置

INPUT 输入端 ☐ ACN(BU蓝) ☐ ACL(BN棕) ☒ (GN绿/YL黄)	Vin(输入):100-277V~1.3A 50/60Hz	Vout(输出):34-54V $\pm$ 5%	OUTPUT 输出端 (BU蓝)Vo - ☐ (BN棕)Vo + ☐
	η : $\geq$ 91%	Max.Uout(最大电压): 70V $\pm$	
	PF: $\geq$ 0.95	Rated Power(额定功率):100W •tc	
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MADE IN CHINA
 (中国制造)

IP65

SELV

ta:50°C@Vin100-200V~
 tc:90°C

ta:60°C@Vin200-277V~

GEP-100-90

SUNCOM
GEP-100-90
(型号)LED控制装置

INPUT 输入端 ☐ ACN(BU蓝) ☐ ACL(BN棕) ☒ (GN绿/YL黄)	Vin(输入):100-277V~1.3A 50/60Hz	Vout(输出):54-90V $\pm$ 5%	OUTPUT 输出端 (BU蓝)Vo - ☐ (BN棕)Vo + ☐
	η : $\geq$ 91%	Max.Uout(最大电压): 110V $\pm$	
	PF: $\geq$ 0.95	Rated Power(额定功率):100W •tc	
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MADE IN CHINA
 (中国制造)

IP65

SELV

ta:50°C@Vin100-200V~
 tc:90°C

ta:60°C@Vin200-277V~

GEP-80-42

SUNCOM
GEP-80-42
(型号)LED控制装置

INPUT 输入端 ☐ ACN(BU蓝) ☐ ACL(BN棕) ☒ (GN绿/YL黄)	Vin(输入):100-277V~1A 50/60Hz	Vout(输出):25-42V $\pm$ 5%	OUTPUT 输出端 (BU蓝)Vo - ☐ (BN棕)Vo + ☐
	η : $\geq$ 90%	Max.Uout(最大电压): 55V $\pm$	
	PF: $\geq$ 0.95	Rated Power(额定功率):80W •tc	
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MADE IN CHINA
 (中国制造)

IP65

SELV

ta:50°C@Vin100-200V~
 tc:90°C

ta:60°C@Vin200-277V~

GEP-79-90

SUNCOM
GEP-75-90
(型号)LED控制装置

INPUT 输入端 ☐ ACN(BU蓝) ☐ ACL(BN棕) ☒ (GN绿/YL黄)	Vin(输入):100-277V~1A 50/60Hz	Vout(输出):54-90V $\pm$ 5%	OUTPUT 输出端 (BU蓝)Vo - ☐ (BN棕)Vo + ☐
	η : $\geq$ 91%	Max.Uout(最大电压): 110V $\pm$	
	PF: $\geq$ 0.95	Rated Power(额定功率):75W •tc	
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IP65

SELV

ta:50°C@Vin100-200V~
 tc:90°C

ta:60°C@Vin200-277V~