

SUNCOM 新创电源	产品类型	LED 驱动电源 LED INTEGRATED SPECIAL DRIVER		
	产品系列	GEP-200-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-200-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		
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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<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。

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-200-36	200W	100-277Vac	25-36V	6000mA	6.9%	0.97
GEP-200-42	200W	100-277Vac	30-42V	5000mA	8.0%	0.97
GEP-200-54	200W	100-277Vac	34-54V	3700mA	8.0%	0.96
GEP-200-90	200W	100-277Vac	54-90V	2200mA	8.9%	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	-	-	2.7A	-
Inrush Current 浪涌电流	-	-	30A	At 230Vac input, 25℃ cold start 环境温度 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	-	GEP-200-36
	0.95	0.97	-	GEP-200-42
	0.95	0.96	-	GEP-200-54
	0.95	0.96	-	GEP-200-90
THD. 总谐波失真 At 230V AC input, full load 满载，输入 230Vac 下测量	-	6.9%	15%	GEP-200-36
	-	8.0%	15%	GEP-200-42
	-	8.0%	15%	GEP-200-54
	-	8.9%	15%	GEP-200-90
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	300Vac	305Vac	310Vac	

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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	25VDC	—	36VDC	GEP-200-36
	30VDC	—	42VDC	GEP-200-42
	34VDC	—	54VDC	GEP-200-54
	54VDC	—	90VDC	GEP-200-90
Current Setting Range 电流设置范围 (常规为典型值±5%)	4000mA	6000mA	6000mA	GEP-200-36
	3200mA	5000mA	5000mA	GEP-200-42
	2600mA	3700mA	4000mA	GEP-200-54
	1600mA	2200mA	3000mA	GEP-200-90
Rated Power 额定功率	—	—	200W	—
Over Voltage 空载电压	48V	—	55V	GEP-200-36
				GEP-200-42
	60V	—	70V	GEP-200-54
	98V	—	110V	GEP-200-90
Efficiency 效率 Measured at full load and 230Vac input	≥ 89%	89.7%	—	GEP-200-36
	≥ 90%	90.2%	—	GEP-200-42
	≥ 90%	90.9%	—	GEP-200-54
	≥ 91%	91.5%	—	GEP-200-90
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	—	± 46%	< ± 50%	—
Turn-on Delay Time 启动时间	—	500mS	< 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℃	+60℃	—
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℃	—

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■ 安规和电磁兼容：

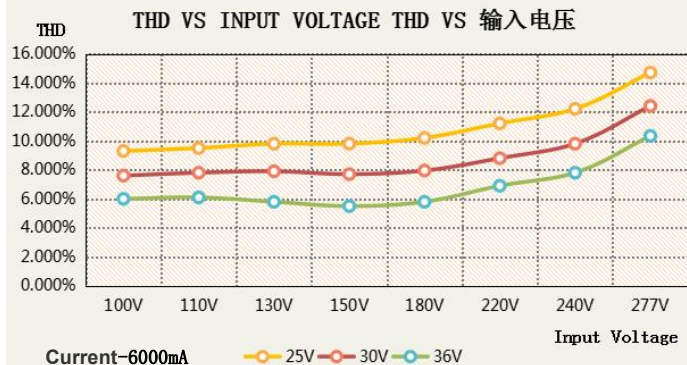
Withstand voltage 耐压	I/P - FG:1.75KVAC, I/P-O/P:3.0KVAC
isolation resistance 绝缘阻抗	$\geq 10M\Omega$ at I/P - FG 500VDC Test
leakage current 漏电流	$< 0.75mA/277Vac$
Earthing resistance 接地电阻	$< 0.1\Omega$ / 25A 1 min
Surge 浪涌	差模 L-N +/- 4KV (2 ohm), 共模 L, N-E +/- 6KV (12 ohm)
conducted electromagnetic interference 传导	$> 3db$
Radiated electromagnetic interference 辐射	$> 3db$

NOTE:

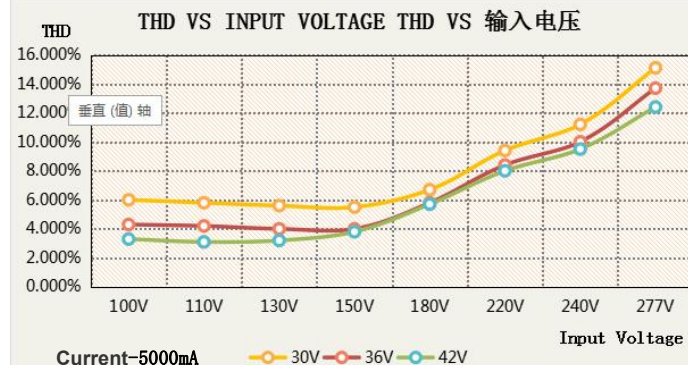
- 1) All parameters NOT specially mentioned are measured at 230Vac (50Hz) input, rated load and 25°C of ambient temperature.
如未特别说明，所有规格参数均在 230Vac (50Hz) 输入，额定负载，环境温度 25°C 的条件下进行测量
- 2) Tolerance : includes set up tolerance, line regulation and load regulation.
误差：包含设定误差、线性调整率和负载调整率。

THD VS INPUT VOLTAGE THD VS 输入电压

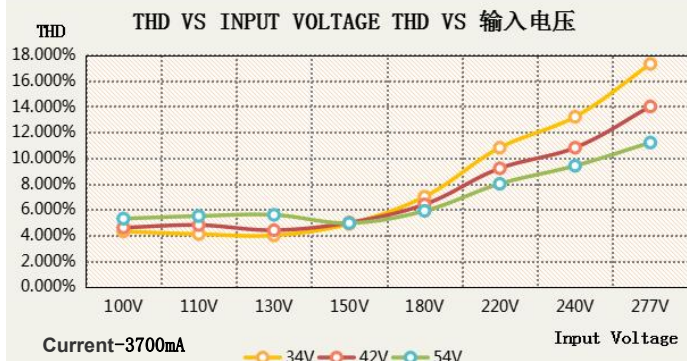
GEP-200-36



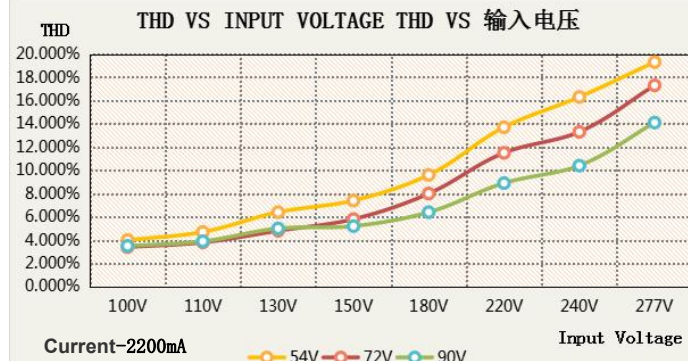
GEP-200-42



GEP-200-54

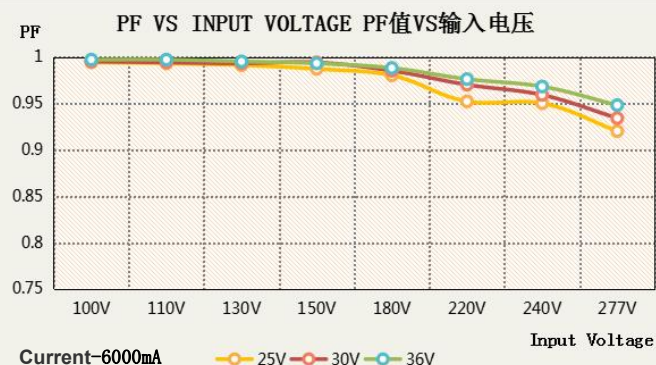


GEP-200-90

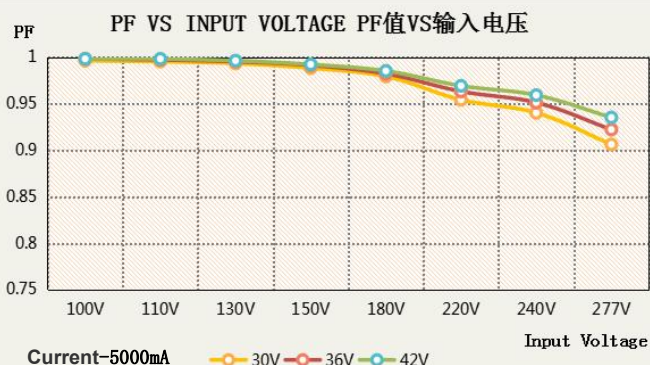


PF VS INPUT VOLTAGE PF 值 VS 输入电压

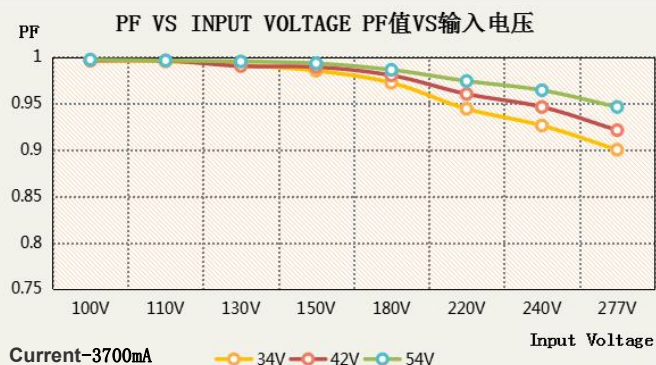
GEP-200-36



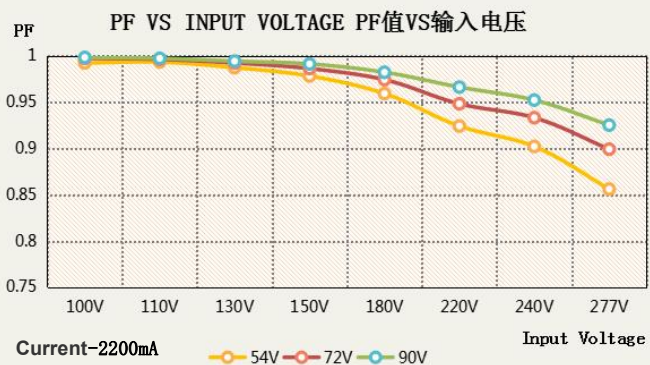
GEP-200-42



GEP-200-54

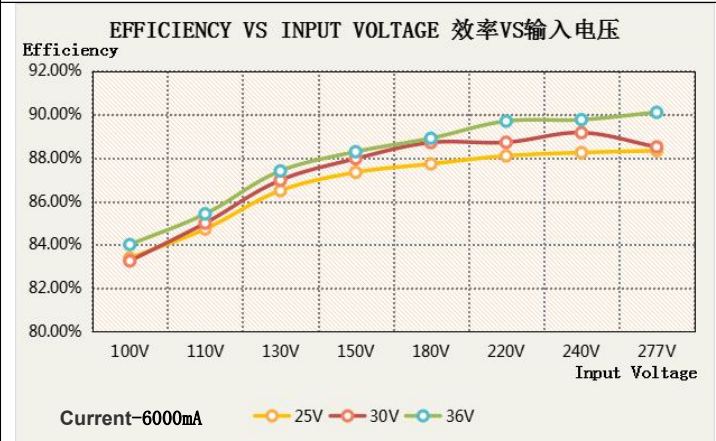


GEP-200-90

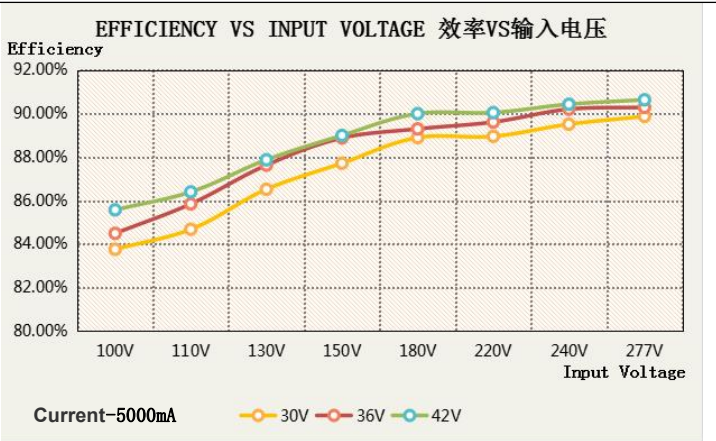


■ EFFICIENCY VS INPUT VOLTAGE 效率 VS 输入电压

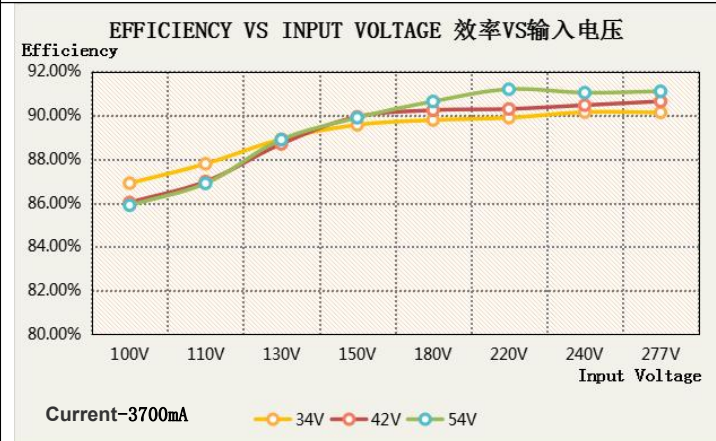
GEP-200-36



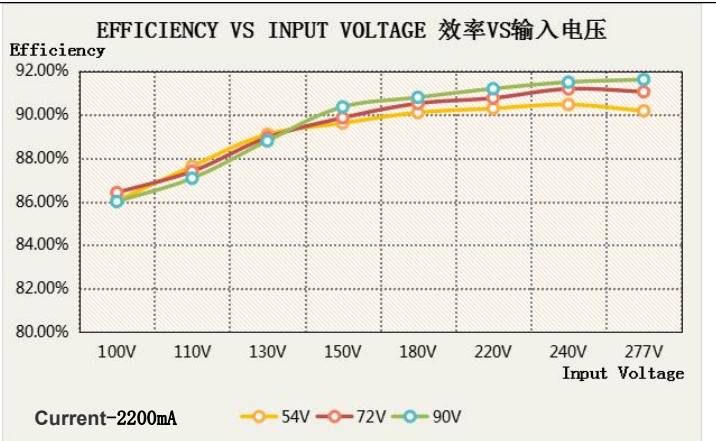
GEP-200-42



GEP-200-54



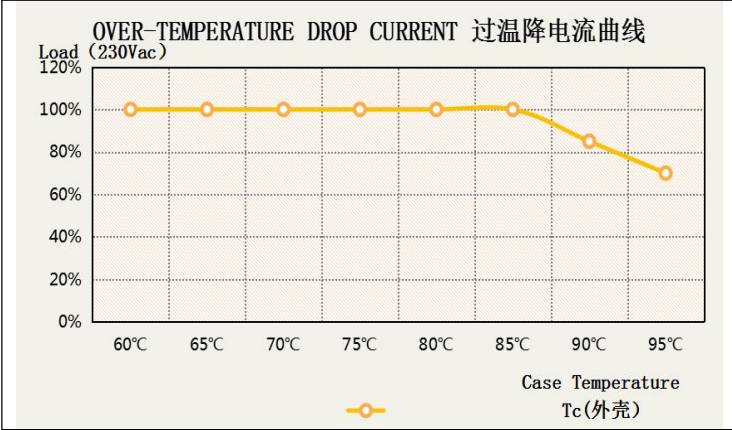
GEP-200-90



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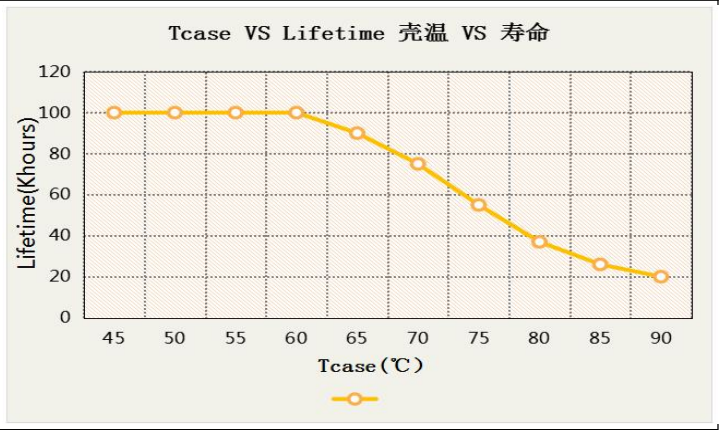
OVER-TEMPERATURE DROP CURRENT

过温降电流曲线



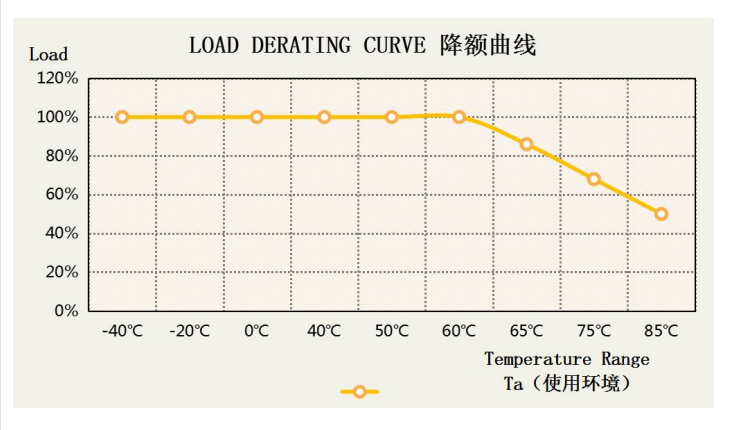
TCASE VS LIFETIME

壳温VS寿命



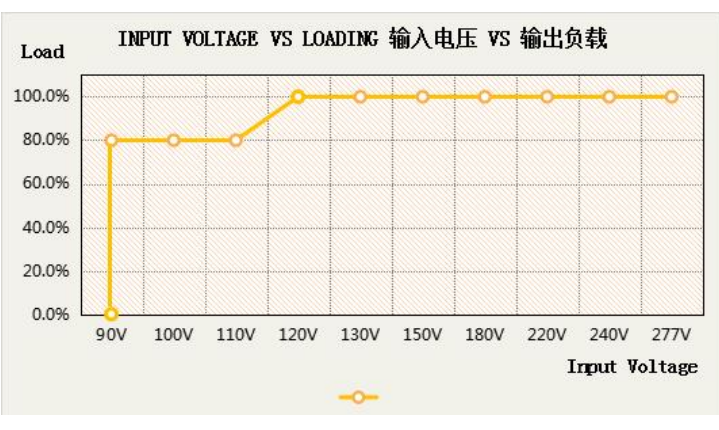
LOAD DERATING CURVE

降额曲线



INPUT VOLTAGE VS LOADING

输入 电压 VS 输出负载



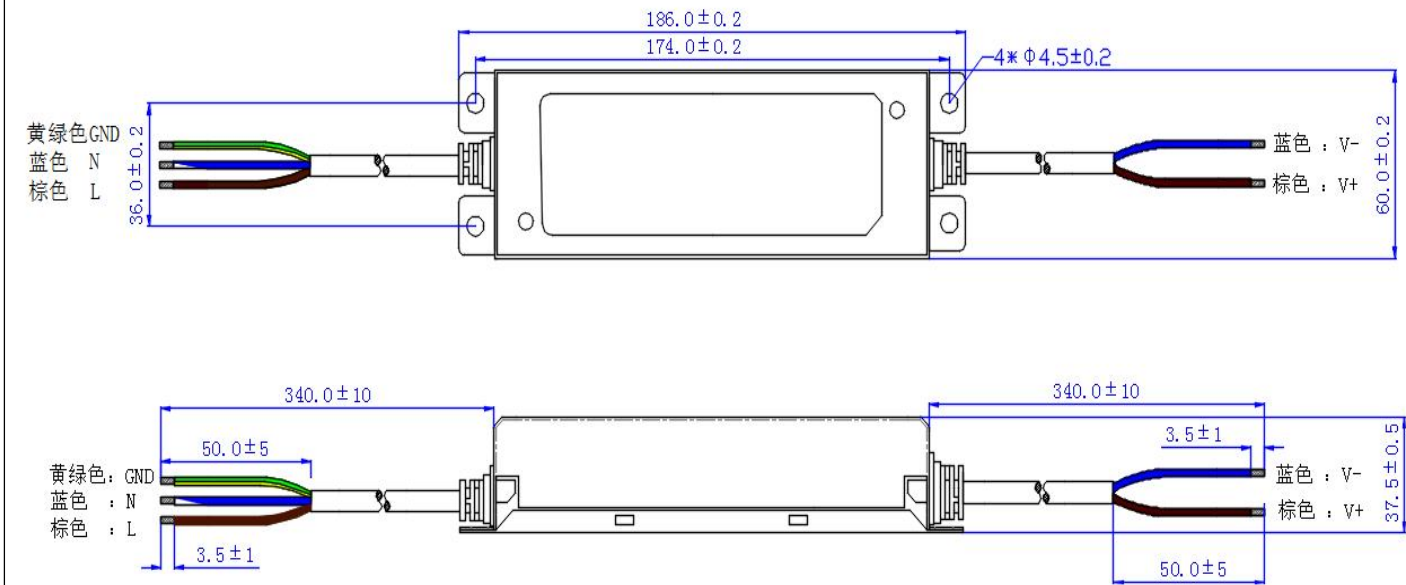
MECHANICAL SPECIFICATION & PACKING

机械尺寸图 & 包装:

Bare plate dimension 裸板尺寸	154*54.5*28mm (L*W*H)
Complete product dimension 成品尺寸	186*60*37mm (L*W*H)
Product Weight 产品重量	740g

Case No. 机壳型号: 200W

Unit 单位:mm



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■ Nameplate

■ 铭牌

尺寸: 124*46mm 样式: 贴纸

GEP-200-36

SUNCOM
GEP-200-36 (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~2.7A 50/60Hz	Vout(输出):25-36V = 6000mA±5%	OUTPUT 输出端 (BU蓝)Vo - O (BN棕)Vo + O	
	η:≥89%	•tc		Max.Uout(最大电压): 55V =
	PF:≥0.95			Rated Power(额定功率):200W
	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)

GEP-200-42

SUNCOM
GEP-200-42 (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~2.7A 50/60Hz	Vout(输出):30-42V = 5000mA±5%	OUTPUT 输出端 (BU蓝)Vo - O (BN棕)Vo + O	
	η:≥90%	•tc		Max.Uout(最大电压): 55V =
	PF:≥0.95			Rated Power(额定功率):200W
	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)

GEP-200-54

SUNCOM
GEP-200-54 (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~2.7A 50/60Hz	Vout(输出):34-54V = 3700mA±5%	OUTPUT 输出端 (BU蓝)Vo - O (BN棕)Vo + O	
	η:≥90%	•tc		Max.Uout(最大电压): 70V =
	PF:≥0.95			Rated Power(额定功率):200W
	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)

GEP-200-90

SUNCOM
GEP-200-90 (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~2.7A 50/60Hz	Vout(输出):54-90V = 2200mA±5%	OUTPUT 输出端 (BU蓝)Vo - O (BN棕)Vo + O	
	η:≥91%	•tc		Max.Uout(最大电压): 110V =
	PF:≥0.95			Rated Power(额定功率):200W
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