



Product Type	LED INTEGRATED SPECIAL DRIVER		
Product Series	GEP-200-XX SERIES	REV	V2. 2

SPECIFICATION FOR APPROVAL

CUSTOMER:	
MODEL NO.:	GEP-200-XX SERIES
Rev.:	V2.2
SAMPLE DATE:	

Customer Confirmation

TESTED BY	CHECKED BY	APPROVED BY
NOTES		

Please return to us one copy of “SPECIFICATION FOR APPROVAL” with you approved signature.

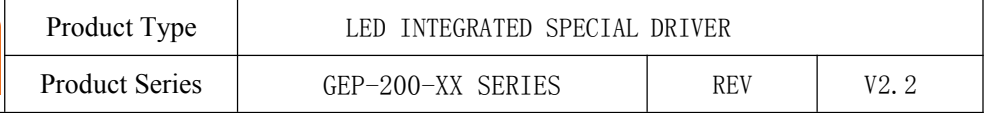
SUNCOM Confirmation

TESTED BY	CHECKED BY	APPROVED BY

Guangdong Suncom Power Technology Co.,Ltd.

No.1 of Yongyi 3rd Road Henglan Town, Zhongshan, Guangdong, China. Post code:528478

TEL:0760-22326609 28168136 FAX:0760-87600929



■ CHANGE HISTORY

[illegible]

SUNCOM	Product Type	LED INTEGRATED SPECIAL DRIVER		
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◆ Features :

- Input Rated voltage : 100-277Vac 50Hz/60Hz
- Isolate, Constant current mode output
- Surge Protection: L-N :4KV; L/N- E:6KV
- Input over-voltage protection
- Over temperature drop current
- THD<15%

◆ Applications :

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

应用于：路灯、工矿灯等照明灯具



◆ Description :

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.

■ MODELLIST :

Model	Rated Power	Input Voltage	Output Voltage	Output Current	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

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■ ELECTRICAL SPECIFICATION

◆ Input performance:

Parameter	Min.	Typ.	Max.	Notes
Voltage Range	90Vac	100-277Vac	305Vac	
Frequency Range	47Hz	50/60Hz	63Hz	
AC Current	-	-	2.7A	-
Inrush Current	-	-	30A	At 230Vac input, 25°C cold start
PF. At 230V AC input, full load	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. At 230V AC input, full load	-	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	320Vac	330Vac	340Vac	Turn off the output voltage and resume work after the AC voltage is normal
Over-voltage Recovery Voltage	300Vac	305Vac	310Vac	

◆ Output performance

Parameter	Min.	Typ.	Max.	Notes
Voltage Range	25VDC	-	36VDC	GEP-200-36
	30VDC	-	42VDC	GEP-200-42
	34VDC	-	54VDC	GEP-200-54
	54VDC	-	90VDC	GEP-200-90
Current Setting Range (Normally $\pm 5\%$ of typical value)	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	-	-	200W	-
Over Voltage	48V	-	55V	GEP-200-36
				GEP-200-42

SUNCOM	Product Type		LED INTEGRATED SPECIAL DRIVER		
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Efficiency Measured at full load and 230Vac input	60V	-	70V	GEP-200-54	
	98V	-	110V	GEP-200-90	
	$\geq 89\%$	89.7%	-	GEP-200-36	
	$\geq 90\%$	90.2%	-	GEP-200-42	
	$\geq 90\%$	90.9%	-	GEP-200-54	
	$\geq 91\%$	91.5%	-	GEP-200-90	
Current Tolerance	-5%	-	+5%	-	
Line Regulation	-3%	-	+3%	-	
Load Regulation	-3%	-	+3%	-	
Current Ripple	-	$\pm 46\%$	$< \pm 50\%$	-	
Turn-on Delay Time	-	500mS	$< 1S$	Measured at full load and 230Vac input	
Short Circuit Protection	-	-	2W	Hiccup mode,recovers automatically after fault condition is removed	

■ Environment

Parameter	Min.	Typ.	Max.	Notes
Working TEMP	-40℃	+25℃	+60℃	-
Storage TEMP	-40℃	+25℃	+85℃	-
Working Humidity	20% RH	-	90% RH	-
Storage Humidity	10% RH	-	90% RH	-
Maximum shell TEMP	-	-	+90℃	-

■ Safety and EMC:

Withstand voltage	I/P - FG:1.75KVAC,I/P-O/P:3.0KVAC
isolation resistance	$\geq 10M\Omega$ at I/P - FG 500VDC Test
leakage current	$< 0.75mA/277Vac$
Earthing resistance	$< 0.1\Omega$ / 25A 1 min
Surge	Differential mode: L-N +/- 4KV (2 ohm), common mode: L, N-E +/- 6KV (12 ohm)
Conducted electromagnetic interference	$> 3db$
Radiated electromagnetic interference	$> 3db$

NOTE:

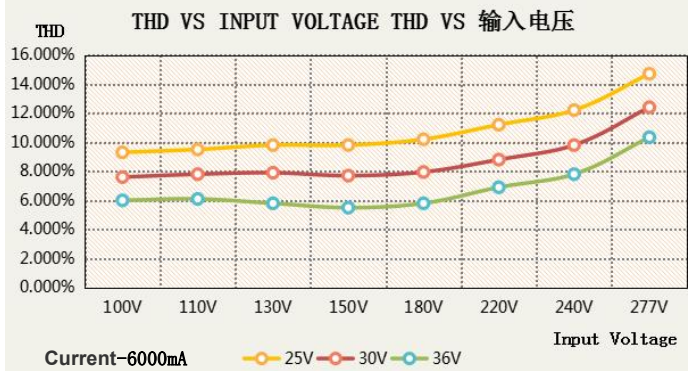
- 1)All parameters NOT specially mentioned are measured at 230Vac (50Hz) input, rated load and 25℃ of ambient temperature
- 2) Tolerance:includes set up tolerance,lineregulation and load regulation.



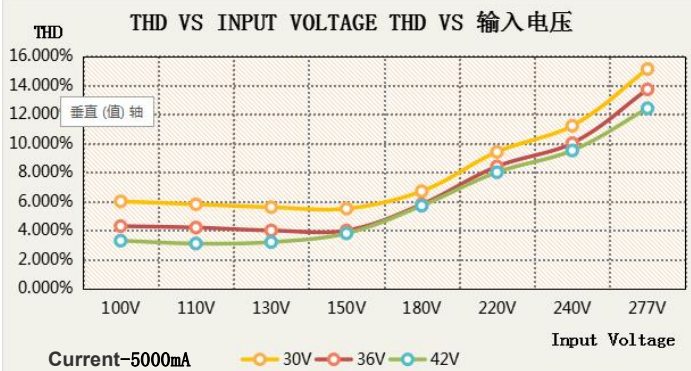
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THD VS INPUT VOLTAGE

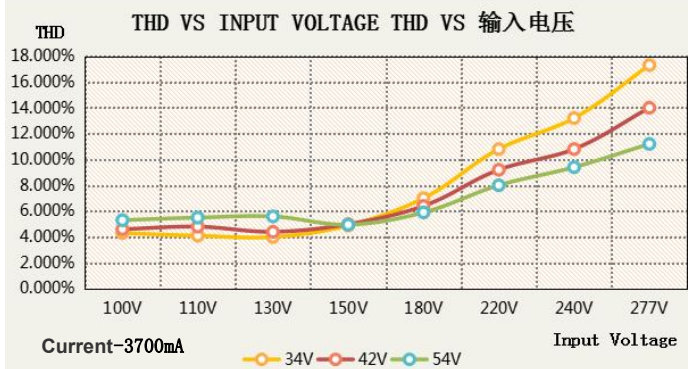
GEP-200-36



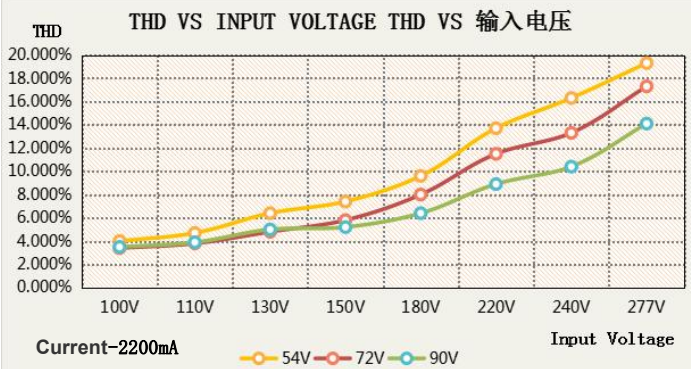
GEP-200-42



GEP-200-54

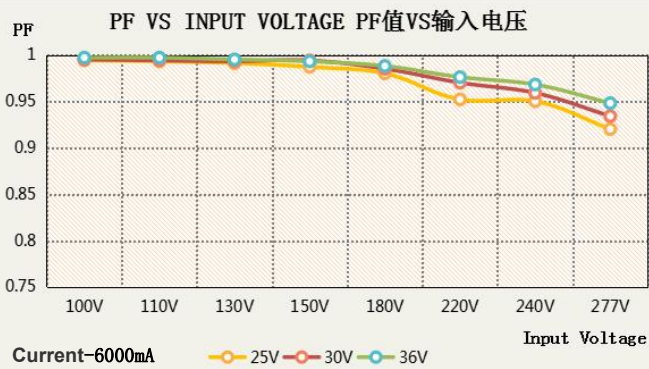


GEP-200-90

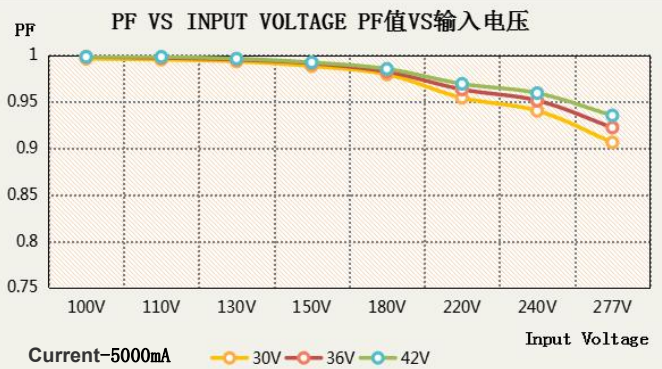


PF VS INPUT VOLTAGE

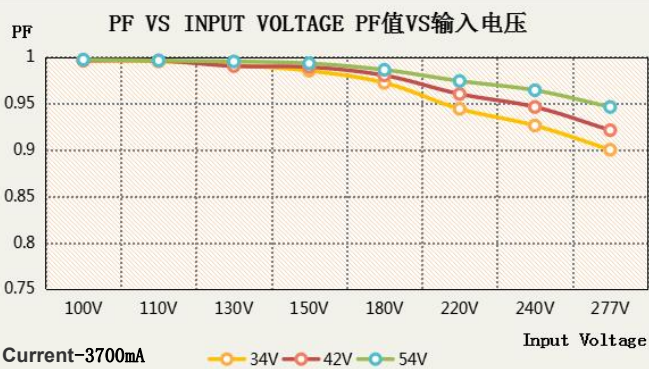
GEP-200-36



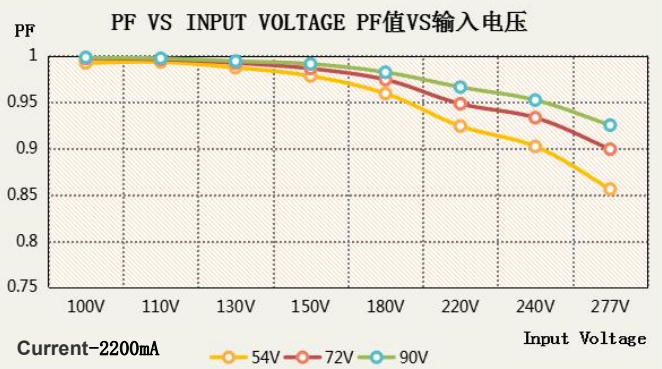
GEP-200-42



GEP-200-54



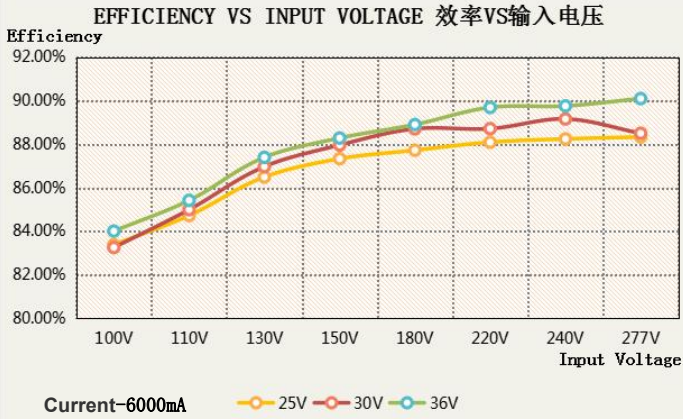
GEP-200-90



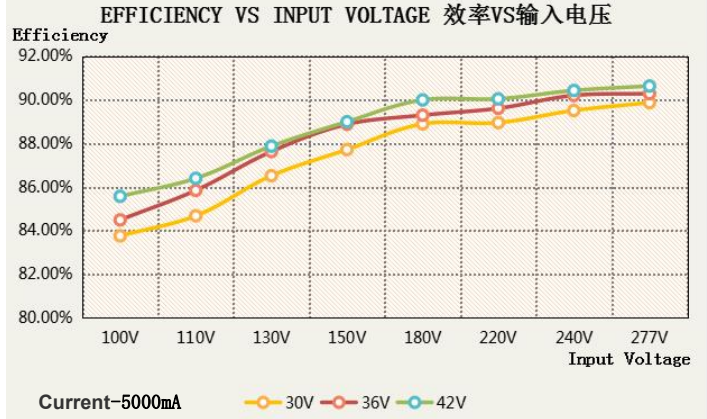
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EFFICIENCY VS INPUT VOLTAGE

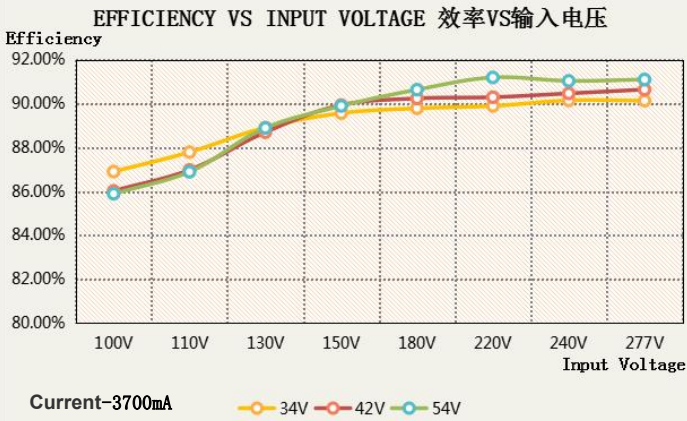
GEP-200-36



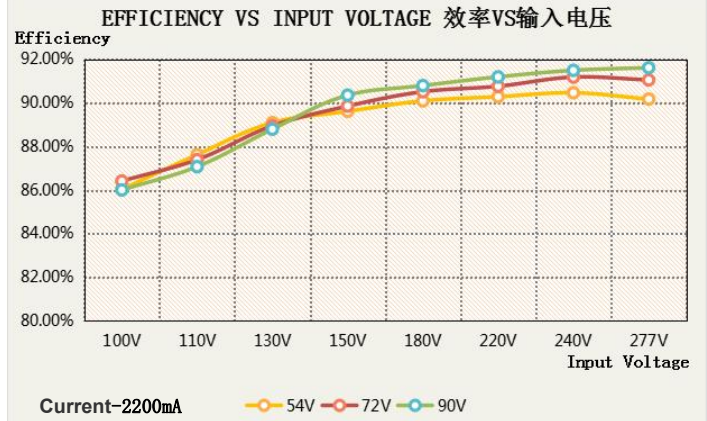
GEP-200-42



GEP-200-54

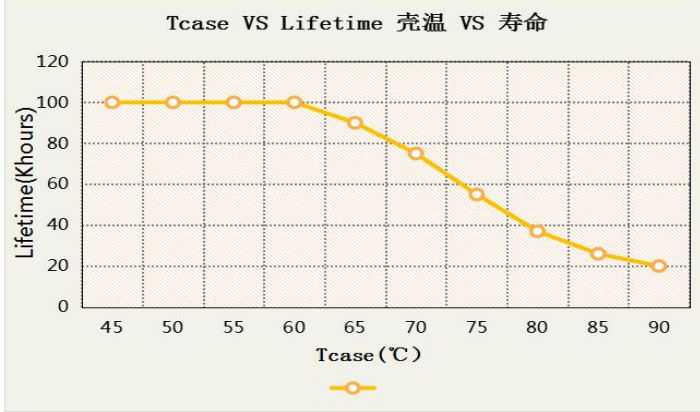
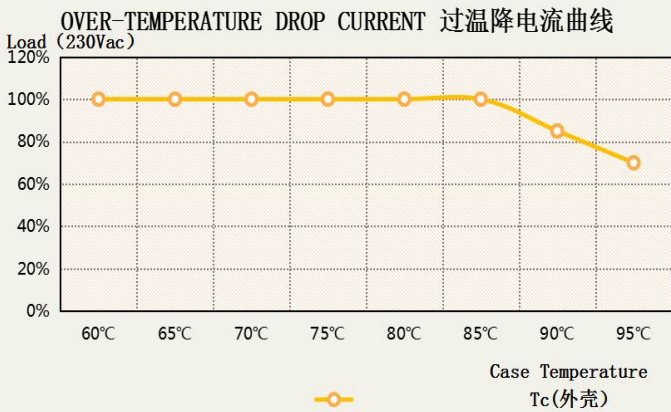


GEP-200-90



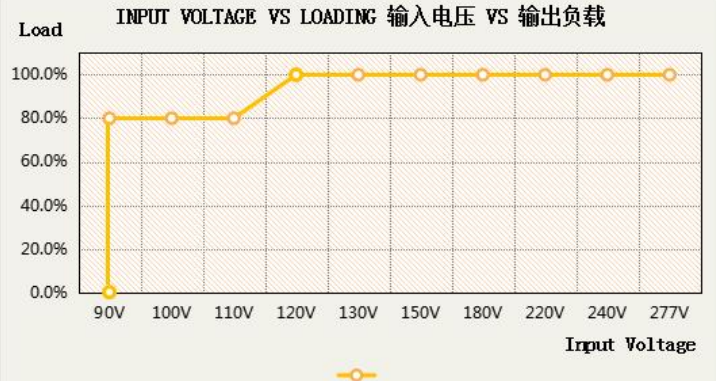
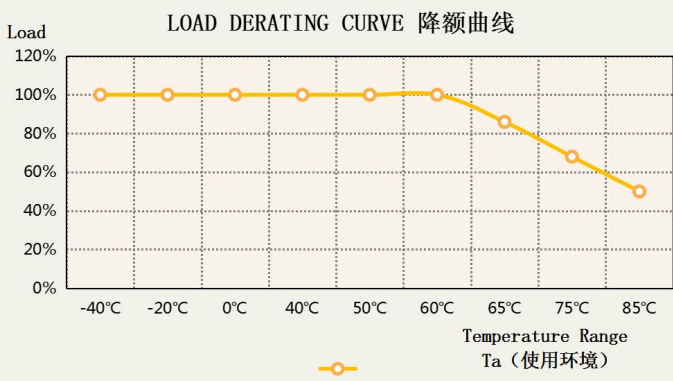
OVER-TEMPERATURE DROP CURRENT

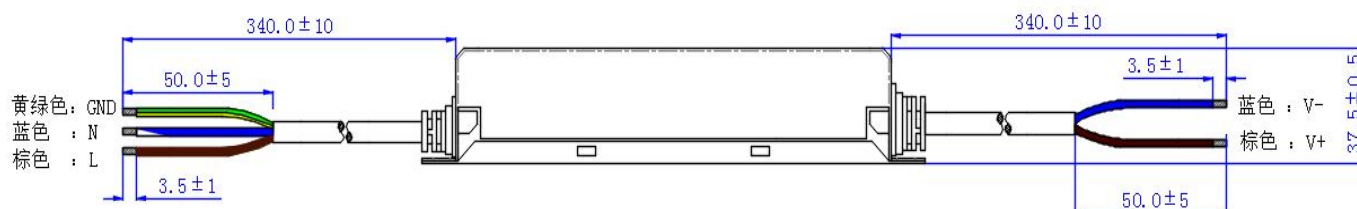
TCASE VS LIFETIME



LOAD DERATING CURVE

INPUT VOLTAGE VS LOADING





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Nameplate Dimension: 124*46mm Style: sticker

GEP-200-36

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GEP-200-36 (型号)LED控制装置

INPUT 输入端	Vin(输入):100-277V~2.7A 50/60Hz	Vout(输出):25-36V = 6000mA±5%	OUTPUT 输出端
☐ ACN(BU蓝)	η :≥89%	•tc Max.Uout(最大电压): 55V =	(BU蓝)Vo - O
☐ ACL(BN棕)	PF:≥0.95	Rated Power(额定功率):200W	(BN棕)Vo + O
☒ (GN绿/YL黄)	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)		ta:50°C@Vin100-200V~ tc:90°C ta:60°C@Vin200-277V~	
    IP65 SELV			

GEP-200-42

SUNCOM

GEP-200-42 (型号)LED控制装置

INPUT 输入端	Vin(输入):100-277V~2.7A 50/60Hz	Vout(输出):30-42V = 5000mA±5%	OUTPUT 输出端
☐ ACN(BU蓝)	η :≥90%	•tc Max.Uout(最大电压): 55V =	(BU蓝)Vo - O
☐ ACL(BN棕)	PF:≥0.95	Rated Power(额定功率):200W	(BN棕)Vo + O
☒ (GN绿/YL黄)	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)		ta:50°C@Vin100-200V~ tc:90°C ta:60°C@Vin200-277V~	
    IP65 SELV			

GEP-200-54

SUNCOM

GEP-200-54 (型号)LED控制装置

INPUT 输入端	Vin(输入):100-277V~2.7A 50/60Hz	Vout(输出):34-54V = 3700mA±5%	OUTPUT 输出端
☐ ACN(BU蓝)	η :≥90%	•tc Max.Uout(最大电压): 70V =	(BU蓝)Vo - O
☐ ACL(BN棕)	PF:≥0.95	Rated Power(额定功率):200W	(BN棕)Vo + O
☒ (GN绿/YL黄)	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)		ta:50°C@Vin100-200V~ tc:90°C ta:60°C@Vin200-277V~	
    IP65 SELV			

GEP-200-90

SUNCOM

GEP-200-90 (型号)LED控制装置

INPUT 输入端	Vin(输入):100-277V~2.7A 50/60Hz	Vout(输出):54-90V = 2200mA±5%	OUTPUT 输出端
☐ ACN(BU蓝)	η :≥91%	•tc Max.Uout(最大电压): 110V =	(BU蓝)Vo - O
☐ ACL(BN棕)	PF:≥0.95	Rated Power(额定功率):200W	(BN棕)Vo + O
☒ (GN绿/YL黄)	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)		ta:50°C@Vin100-200V~ tc:90°C ta:60°C@Vin200-277V~	
    IP65 SELV			