

	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	GEP-150-XX SERIES	REV	V2.2

SPECIFICATION FOR APPROVAL

CUSTOMER:	
MODEL NO.:	GEP-150-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



Product Type	LED INTEGRATED SPECIAL DRIVER		
Product Series	GEP-150-XX SERIES	REV	V2.2

■ CHANGE HISTORY

[illegible]

SUNCOM	Product Type	LED INTEGRATED SPECIAL DRIVER			
	Product Series	GEP-150-XX SERIES	REV	V2.2	

◆ 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<10%



◆ Applications:

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

◆ Description :

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.

■ MODELLIST

Model	Rated Power	Input Voltage	Output Voltage	Output Current	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

SUNCOM	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	GEP-150-XX SERIES	REV	V2.2

■ ELECTRICAL SPECIFICATION

◆ Input performance:

Parameter	Min.	Typ.	Max.	Notes
Voltage Range	90Vac	100-277Vac	305Vac	
Frequency Range	47Hz	50/60Hz	63Hz	
AC Current	-	-	2A	
Inrush Current	-	-	30A	At 230Vac input, 25°C cold start
PF. At 230V AC input, full load	0.95	0.97	-	-
THD. At 230V AC input, full load	-	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	320Vac	330Vac	340Vac	Turn off the output voltage and resume work after the AC voltage is normal

◆ Output performance

Parameter	Min.	Typ.	Max.	Notes
Voltage Range	54VDC	-	90VDC	GEP-150-90
	34VDC	-	54VDC	GEP-150-54
	30VDC	-	42VDC	GEP-150-42
	25VDC	-	36VDC	GEP-150-36
Current Setting Range (Normally $\pm 5\%$ of typical value)	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	-	-	150W	-
Over Voltage	100V	-	110V	GEP-150-90

SUNCOM	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	GEP-150-XX SERIES	REV	V2.2

	65V	-	70V	GEP-150-54
	50V	-	55V	GEP-150-42
				GEP-150-36
Efficiency Measured at full load and 230Vac input	$\geq 91\%$	91.6%	-	GEP-150-90
	$\geq 90\%$	90.7%	-	GEP-150-54
	$\geq 89\%$	89.8%	-	GEP-150-42
	$\geq 89\%$	89.2%	-	GEP-150-36
Current Tolerance	-5%	-	+5%	-
Line Regulation	-3%	-	+3%	-
Load Regulation	-3%	-	+3%	-
Current Ripple	-	$\pm 41\%$	$< \pm 45\%$	GEP-150-90
	-	$\pm 45\%$	$< \pm 50\%$	GEP-150-54
	-	$\pm 48\%$	$< \pm 50\%$	GEP-150-42
	-	$\pm 49\%$	$< \pm 50\%$	GEP-150-36
Turn-on Delay Time	-	580mS	$< 1S$	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℃	+65℃	-
Storage TEMP	-40℃	+25℃	+85℃	-
Working Humidity	20% RH	-	90% RH	-
Storage Humidity	10% RH	-	90% RH	-
Maximum shell TEMP	-	-	+90℃	-

Product Type	LED INTEGRATED SPECIAL DRIVER		
Product Series	GEP-150-XX SERIES	REV	V2.2

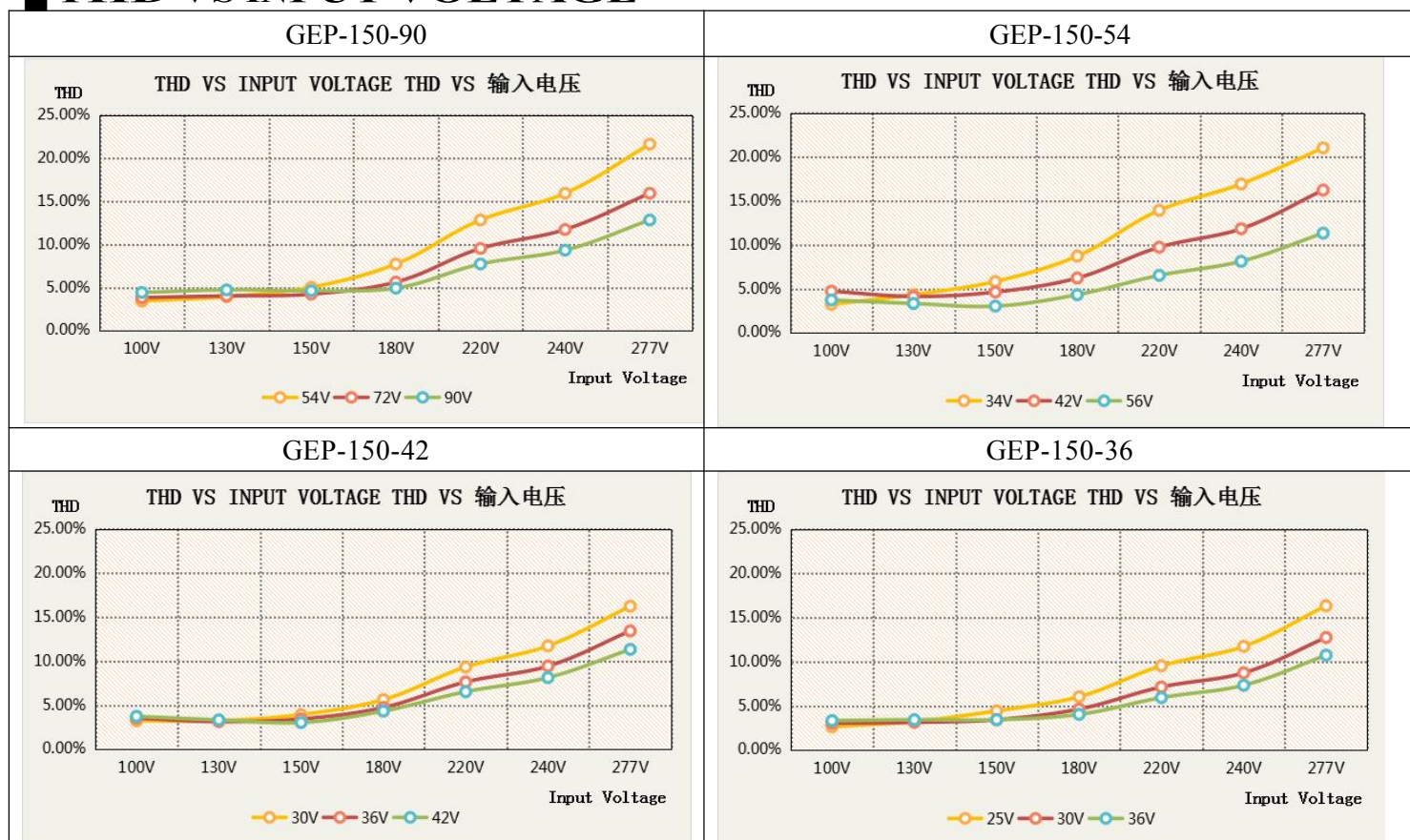
Safety and EMC:

Withstand voltage	I/P - FG:1.75KVAC, I/P-O/P:3KVAC
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.

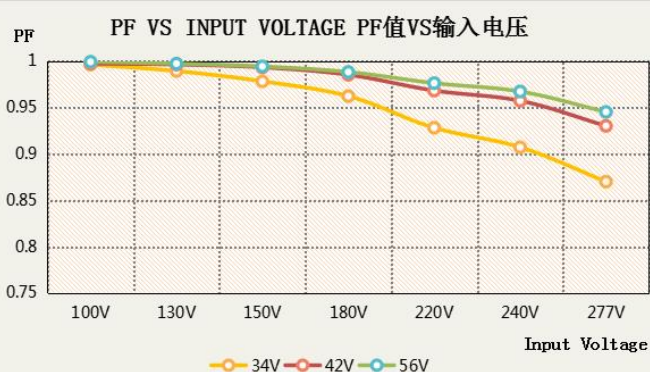
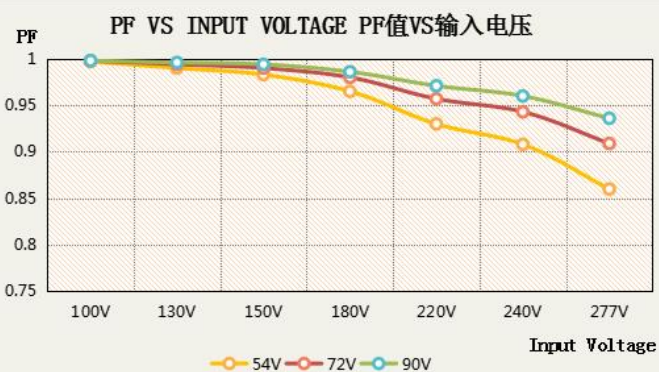
THD VS INPUT VOLTAGE



PF VS INPUT VOLTAGE

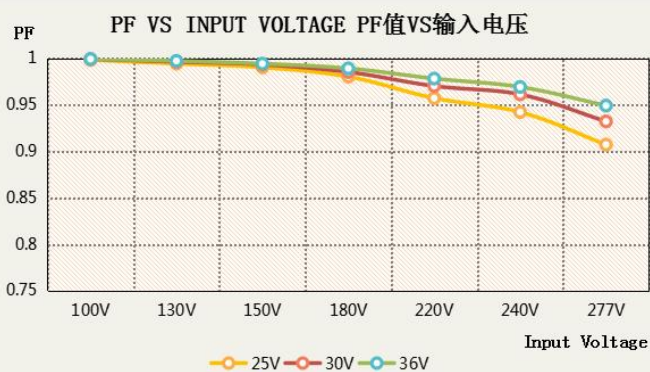
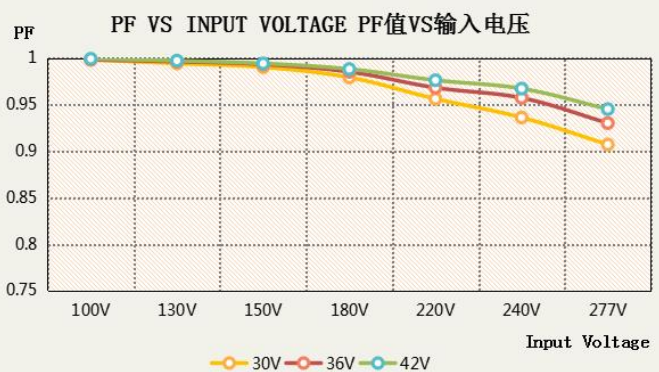
GEP-150-90

GEP-150-54



GEP-150-42

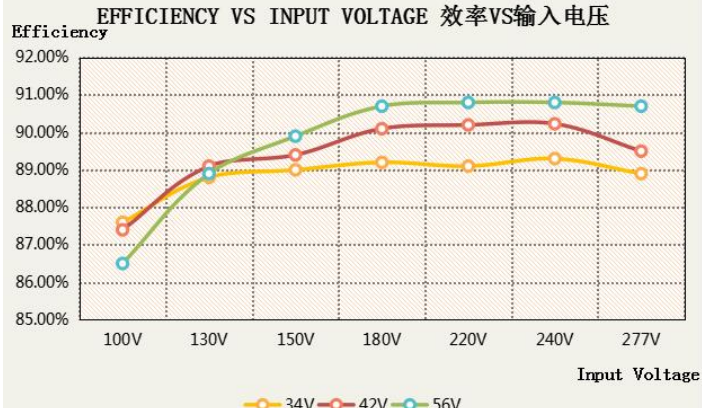
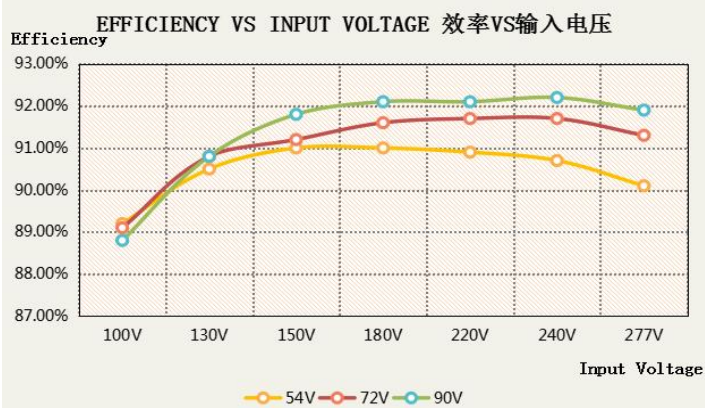
GEP-150-36



EFFICIENCY VS INPUT VOLTAGE

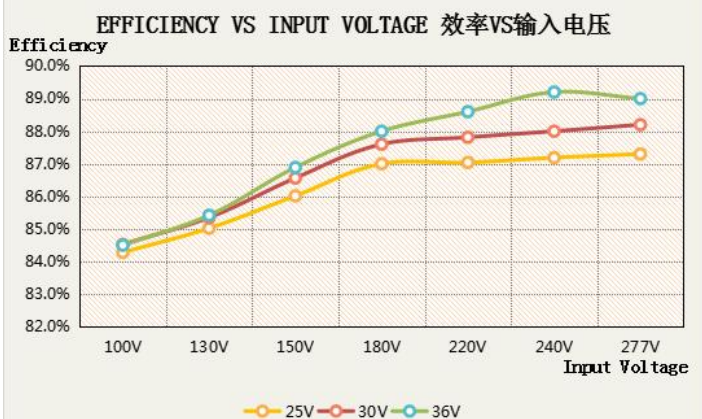
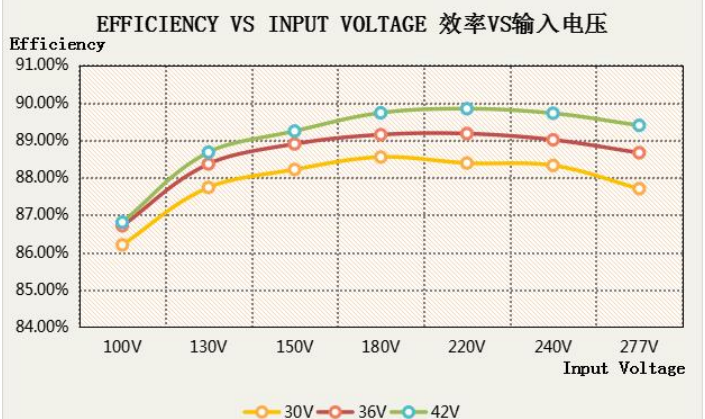
GEP-150-90

GEP-150-54



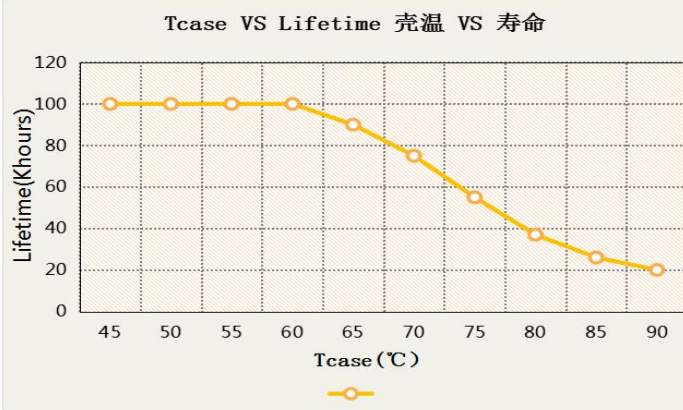
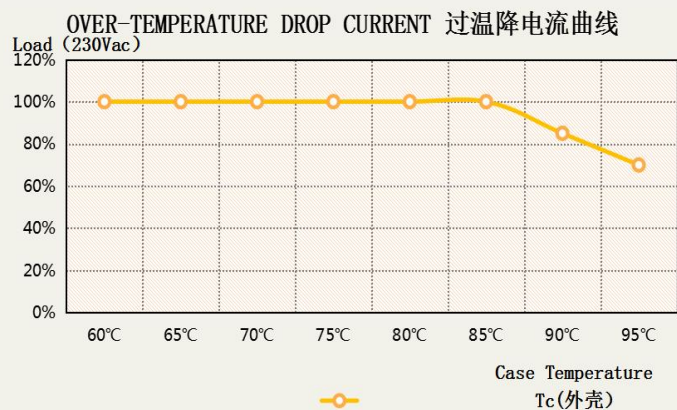
GEP-150-42

GEP-150-36

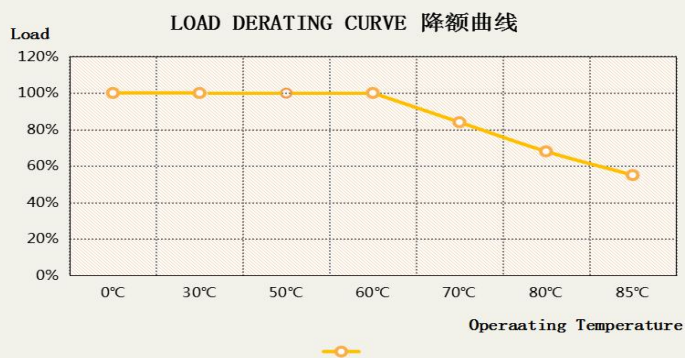


Product Type	LED INTEGRATED SPECIAL DRIVER		
Product Series	GEP-150-XX SERIES	REV	V2.2

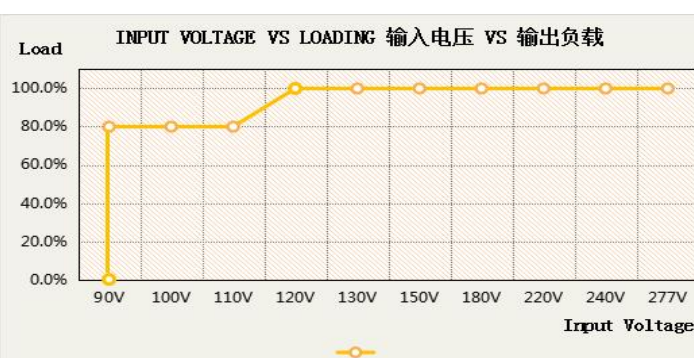
OVER-TEMPERATURE DROP CURRENT TCASE VS LIFETIME



LOAD DERATING CURVE



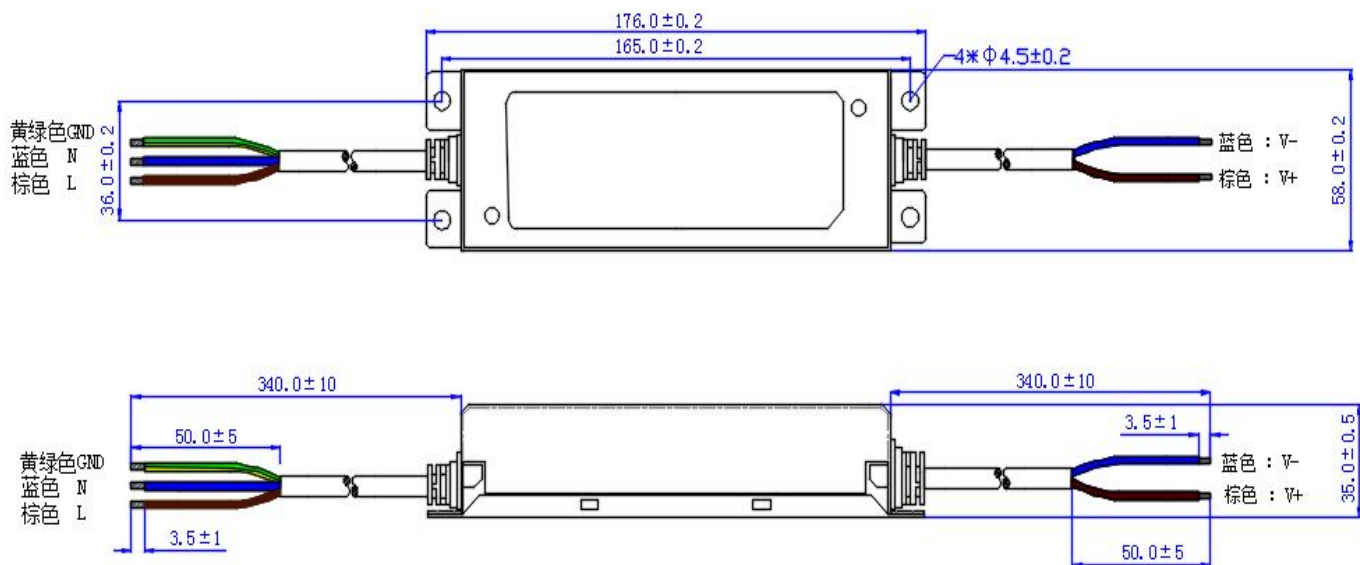
INPUT VOLTAGE VS LOADING



MECHANICAL SPECIFICATION & PACKING

Bare Plate Dimension	141.4*52*28mm(L*W*H)
Final Dimension	176*58*36mm(L*W*H)
Product Weight	660g

Case No.: 150W Unit :mm



SUNCOM

Product Type

LED INTEGRATED SPECIAL DRIVER

Product Series

GEP-150-XX SERIES

REV

V2.2

Nameplate

Dimension: 118*38mm Style: sticker

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)

Vin(输入):100-277V~2A 50/60Hz

 η :≥89%

•tc

PF:≥0.95

Vout(输出):25-36V == 4500mA±5%

Max.Uout(最大电压): 55V ==

Rated Power(额定功率):150W

广东新创电源科技有限公司 www.gdsuncom.com
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 + ○

MADE IN CHINA
(中国制造)

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)

Vin(输入):100-277V~2A 50/60Hz

 η :≥89%

•tc

PF:≥0.95

Vout(输出):30-42V == 3700mA±5%

Max.Uout(最大电压): 55V ==

Rated Power(额定功率):150W

广东新创电源科技有限公司 www.gdsuncom.com
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 + ○

MADE IN CHINA
(中国制造)

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)

Vin(输入):100-277V~2A 50/60Hz

 η :≥90%

•tc

PF:≥0.95

Vout(输出):34-54V == 2800mA±5%

Max.Uout(最大电压): 70V ==

Rated Power(额定功率):150W

广东新创电源科技有限公司 www.gdsuncom.com
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 + ○

MADE IN CHINA
(中国制造)

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)

Vin(输入):100-277V~2A 50/60Hz

 η :≥91%

•tc

PF:≥0.95

Vout(输出):54-90V == 1700mA±5%

Max.Uout(最大电压): 110V ==

Rated Power(额定功率):150W

广东新创电源科技有限公司 www.gdsuncom.com
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 + ○

MADE IN CHINA
(中国制造)

IP65

SELV