	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	SCP-100-90X SERIES	REV	V3.0

SPECIFICATION FOR APPROVAL

CUSTOMER:			
MODEL NO.:	SCP-100-90X SERIES		
Rev.:	V3.0		
SAMPLE DATE:			
Customer Confirmation			
TESTED BY	CHECKED BY	APPROVED BY	
NOTE:			
Please return to us one copy of “SPECIFICATION FOR APPROVAL” with you approved signature.			
SUNCOM Confirmation			
TESTED BY	CHECKED BY	APPROVED BY	
<div>Guangdong SUNCOM Power Technology Co.,Ltd.</div> <div>No.1 of Yongyi 3rd Road Henglan Town Zhongshan Guangdong China. Post code:528478</div> <div>TEL:0760-22326609 28168136 FAX:0760-87600929</div>			

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SUNCOM	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	SCP-100-90X SERIES	REV	V3.0

◆ Features:

- Input Rated voltage : 100-277Vac 50Hz/60Hz
- Isolation, Constant current mode output
- Surge Protection: L-N :6KV; L/N- E:10KV
- 3 in 1 dimming(dim-to-off) : PWM/0-10V/resistance
- AUX Power:12V/0.25A
- Over temperature drop current
- Output current is adjustable
- Input under-voltage protection
- THD<15%



◆ Applications :

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

◆ Description :

This product is a constant current drive power supply, specially designed for LED, with low harmonic (< 15%), high power factor. Output current can be flexibly adjusted according to the led lamp voltage. 3 in 1 dimming. Built-in Surge protection, output open-circuit, short-circuit protection, input under-voltage protection, greatly improve the safety and reliability of the product.

■ MODELLIST :

Model	Rated Power	Input Voltage	Output Voltage	Output Current	Default current @72V	THD. (Typ)	PF. (Typ)
SCP-100-90X	100W	100-277Vac	54-90V	0.8A-1.5A	1.25A	10%	0.97

NOTE: All parameters NOT special mentioned are measured at 230Vac input, rated load and 25℃ of ambient temperature

■ “X” Means Additional Function

“X”	Time control (Adjustable current + half power reduction for 6 hours by default: suffix F)	ADJ Current (suffix A)	0-10V/PWM Dim/Resistor (suffix B)	0-10V/PWM Dim/Resistor +AUX 12V (suffix C)
B			√	

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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	-	-	1.4A	-
Inrush Current	-	-	70A	At 230Vac input, 25°C cold start
PF.	0.95	0.97	-	At 230Vac input, full load
THD.	-	10%	15%	

◆ Output performance:

Parameter	Min.	Typ.	Max.	Notes
Voltage Range	54VDC	-	90VDC	-
Current range Regulation	0.8A	-	1.5A	-
Rated Power	-	-	100W	Output Voltage ≥ 66V
Over Voltage	100V		110V	-
Efficiency	≧ 90%	91%	-	Measured at full load and 230Vac input
Current Tolerance	-5%	-	+5%	-
Line Regulation	-5%	-	+5%	-
Load Regulation	-3%	-	+3%	-
Current Ripple	-	±50%	<±55%	-
Turn-on Delay Time	-	600mS	<1S	Measured at full load and 230Vac input
Short Circuit Protection	-	-	2W	Hiccup mode, recovers automatically after fault condition is removed
Over-temperature protection	-	90°C	-	Shell Tc point temperature, Drop current mode, the current automatically recovers after over temperature release
Under Voltage Protection	100Vac	105Vac	108Vac	After the input voltage is reduced to the under voltage point, Reduce output current by 50%, resume work after the AC voltage is normal

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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:

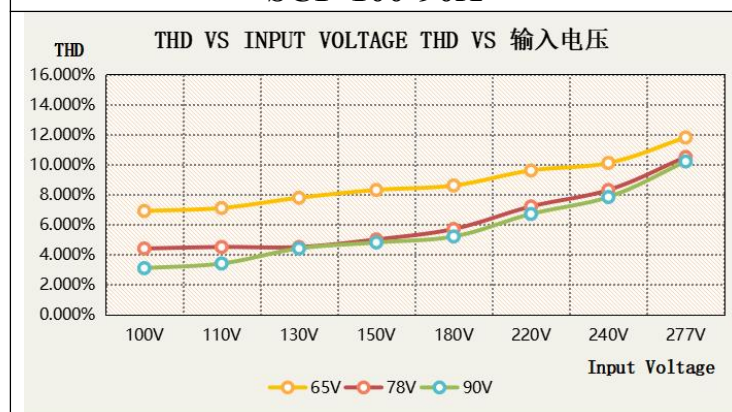
Withstand voltage	I/P - FG:1.75KVAC,I/P-O/P:3.75KVAC, I/P-dimming: 3.75KVAC,O/P-dimming: 0.5KVAC
Isolation Resistance	$\geq 10M\Omega$ at I/P - FG 500VDC Test
Leakage Current	<0.75mA/277Vac
Earthing Resistance	<0.1 Ω / 25A 1 min
Surge	Differential mode: L-N +/- 6KV (2 ohm), common mode:L, N-E +/- 10KV (12 ohm)
Conducted Electromagnetic Interference	-
Radiated electromagnetic interference	-

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.

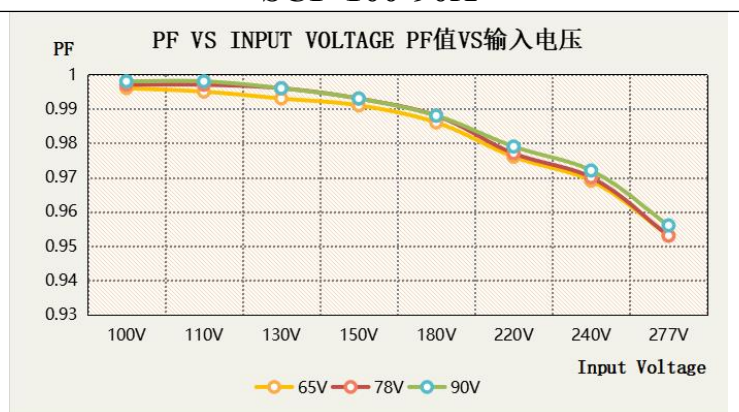
THD VS INPUT VOLTAGE

SCP-100-90X



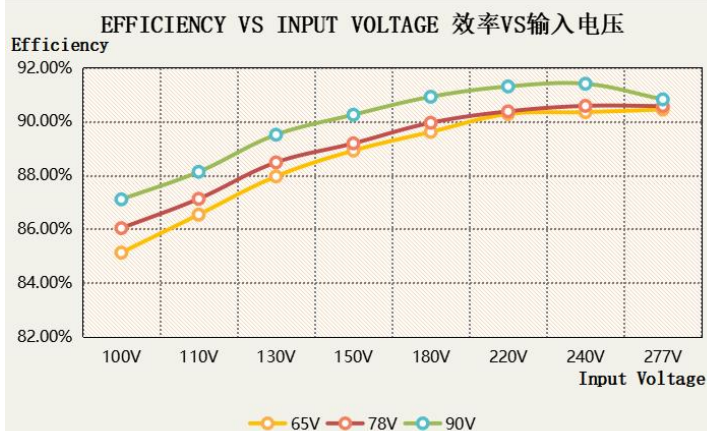
PF VS INPUT VOLTAGE

SCP-100-90X



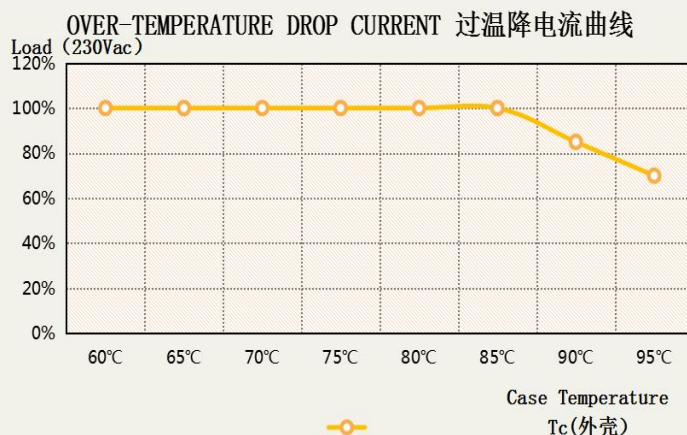
EFFICIENCY VS INPUT VOLTAGE

SCP-100-90X



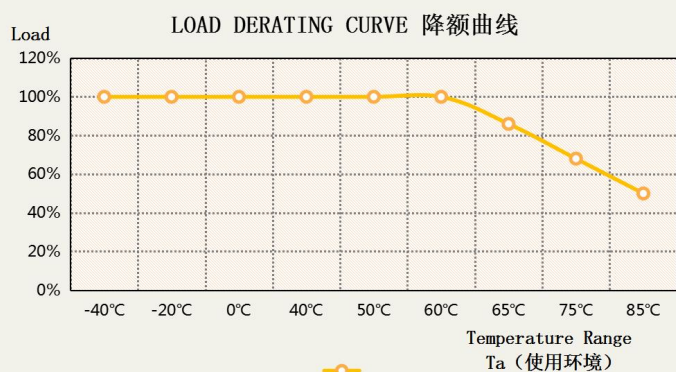
OVER-TEMPERATURE DROP CURRENT

SCP-100-90X



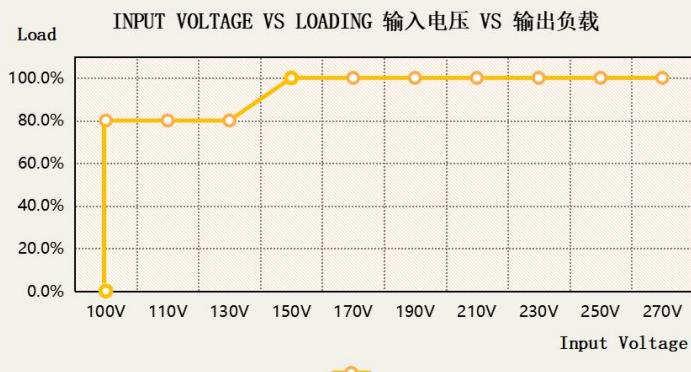
LOAD DERATING CURVE

SCP-100-90X



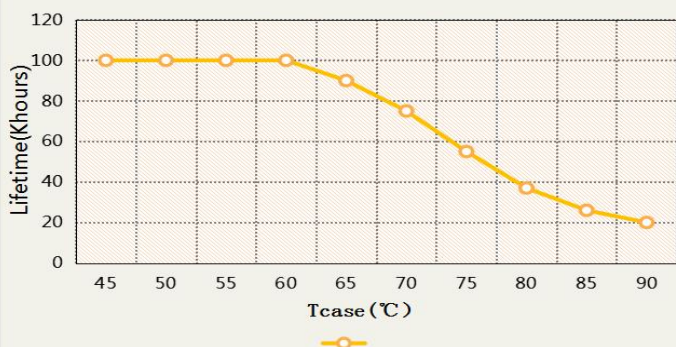
INPUT VOLTAGE VS LOADING

SCP-100-90X



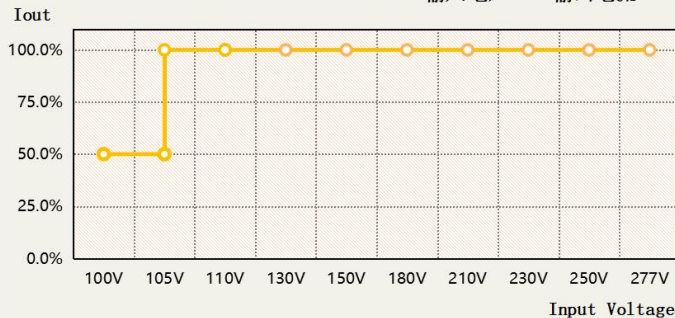
TCASE VS LIFETIME

Tcase VS Lifetime 壳温 VS 寿命



UNDER-VOLTAGE DROP CURRENT

INPUT VOLTAGE VS OUTPUT Current 输入电压 VS 输出电流



THE DIMMING CURVE

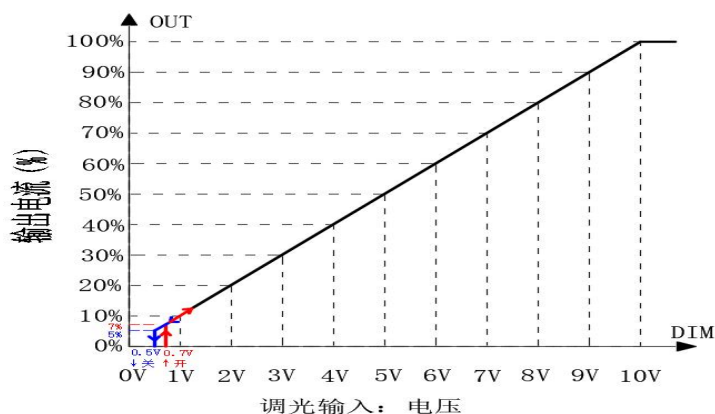
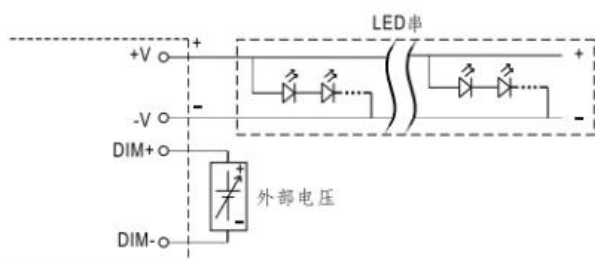
Three-in-one dimming function (Type B/Type C) :

- Connect a 100K resistor or 0-10V DC voltage or PWM signal between DIM+ (blue line) and DIM- (white line) to adjust the value of the output constant current
- Output current of dimming port: 100uA (typical value)
- Auxiliary source function (Type C): 12V auxiliary group power output, the maximum output current is 250mA

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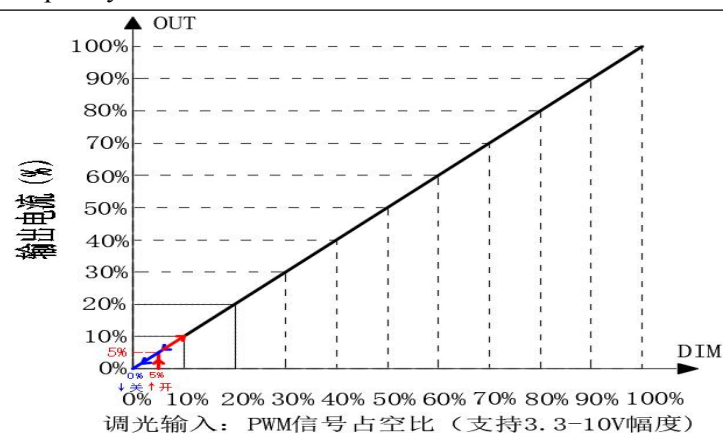
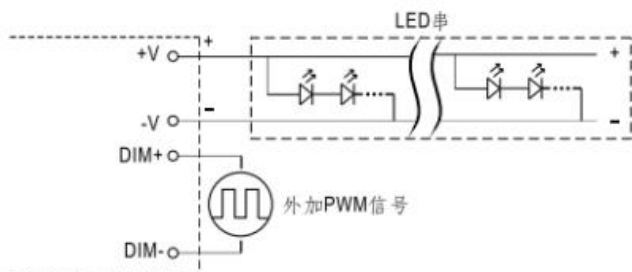
0-10V Dimming

Applying additive 0-10VDC



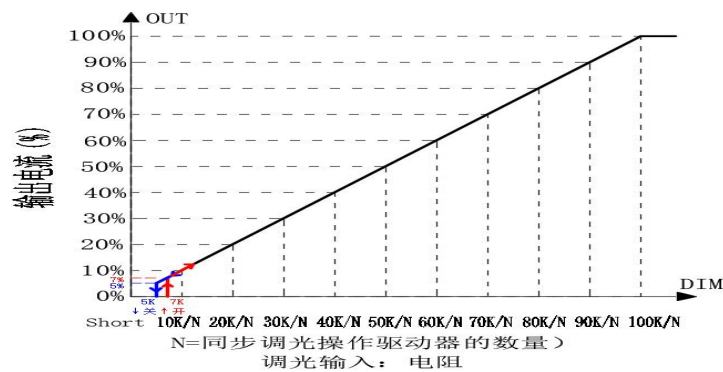
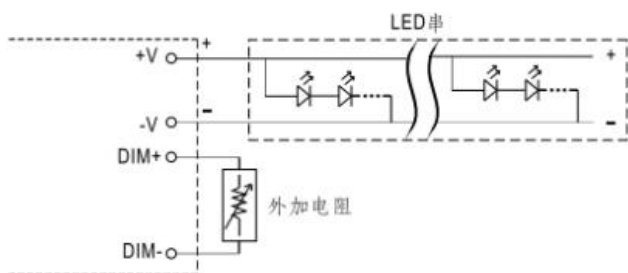
PWM Dimming (PWM frequency 10V 1KHZ)

Applying additive 10V PWM signal (frequency 0.2K-10K)



Resistor dimming (100K)

Applying additive resistance (0-100K)



MECHANICAL SPECIFICATION & PACKING :

Bare Plate Dimension	114*44*26mm(L*W*H)
Final Dimension	143*49*33mm(L*W*H)
Product Weight	420g



Product Type

LED INTEGRATED SPECIAL DRIVER

Product Series

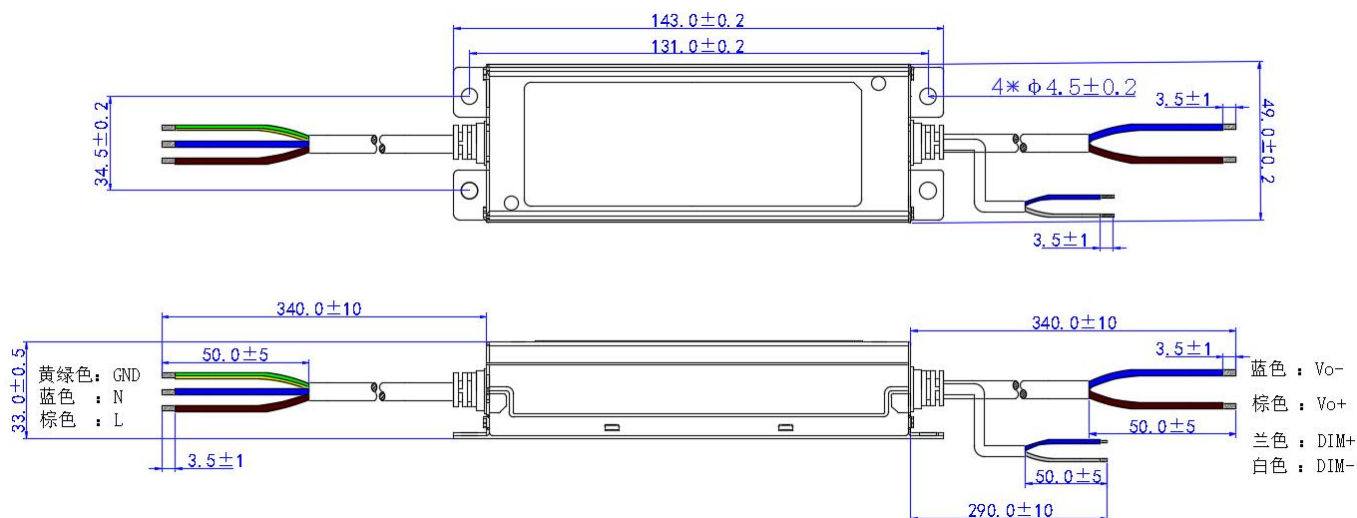
SCP-100-90X SERIES

REV

V3.0

Case No: 100W

Unit: mm



Nameplate

Dimension: 84*31mm Style: sticker

SCP-100-90A

SUNCOM SCP-100-90A (型号)LED控制装置

INPUT 输入端	Vin(输入):100-277V~1.4A 50/60Hz	Vout(输出):54-90V ≈ 800-1500mA	OUTPUT 输出端
<input type="radio"/> ACN(BU蓝)	$\eta \geq 91\%$ PF: ≥ 0.95	Max.Uout(最大电压): 110V ≈	(BU蓝)Vo - ○
<input type="radio"/> ACL(BN棕)	ta:60°C tc:90°C •tc	Rated Power(额定功率):100W	(BN棕)Vo + ○
<input checked="" type="radio"/> (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	tc:90°C ta:50°C@Vin100-200V~ ta:60°C@Vin200-277V~	

MADE IN CHINA (中国制造)

IP65 SELV

SCP-100-90B

SUNCOM SCP-100-90B (型号)LED控制装置

INPUT 输入端	Vin(输入):100-277V~1.4A 50/60Hz	Vout(输出):54-90V ≈ 800-1500mA	OUTPUT 输出端
<input type="radio"/> ACN(BU蓝)	$\eta \geq 91\%$ PF: ≥ 0.95	Max.Uout(最大电压): 110V ≈	(BU蓝)Vo - ○
<input type="radio"/> ACL(BN棕)	ta:60°C tc:90°C •tc	Rated Power(额定功率):100W	(BN棕)Vo + ○
<input checked="" type="radio"/> (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	tc:90°C ta:50°C@Vin100-200V~ ta:60°C@Vin200-277V~	

MADE IN CHINA (中国制造)

IP65 SELV

SCP-100-90C

SUNCOM SCP-100-90C (型号)LED控制装置

INPUT 输入端	Vin(输入):100-277V~1.4A 50/60Hz	Vout(输出):54-90V ≈ 800-1500mA	OUTPUT 输出端
<input type="radio"/> ACN(BU蓝)	$\eta \geq 91\%$ PF: ≥ 0.95	Max.Uout(最大电压): 110V ≈	(BU蓝)Vo - ○
<input type="radio"/> ACL(BN棕)	ta:60°C tc:90°C •tc	Rated Power(额定功率):100W	(BN棕)Vo + ○
<input checked="" type="radio"/> (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	tc:90°C ta:50°C@Vin100-200V~ ta:60°C@Vin200-277V~	

MADE IN CHINA (中国制造)

IP65 SELV