

	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	SCP-240-90X SERIES	REV	V3.0

SPECIFICATION FOR APPROVAL

CUSTOMER:			
MODEL NO.:	SCP-240-90X SERIES		
Rev.	V3.0		
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			

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■ CHANGE HISTORY0

[illegible]

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◆ 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-240-90X	240W	100-277Vac	54-90V	1.9A-3.6A	3.0A	8.9%	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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■ ELECTRICALSPECIFICATION:

◆ Input performance:

Parameter	Min.	Typ.	Max.	Notes
Voltage Range	90Vac	100-277Vac	305Vac	-
Frequency Range	47Hz	50/60Hz	63Hz	-
AC Current	-	-	3.2A	-
Inrush Current	-	-	70A	At 230Vac input,25℃ cold start
PF.	0.95	0.97	-	At 230Vac input,full load
THD.	-	8.9%	15%	

◆ Output performance:

Parameter	Min.	Typ.	Max.	Notes
Voltage Range	54VDC	-	90VDC	-
Current Range Regulation	1.9A	-	3.6A	-
Rated Power	-	-	240W	Output Voltage > 66V
Over Voltage	100V	-	110V	-
Efficiency	≧91%	91.3%	-	Measured at full load and 230Vac input
Current Tolerance	-5%	-	+5%	-
Line Regulation	-5%	-	+5%	-
Load Regulation	-3%	-	+3%	-
Current Ripple	-	±47%	<±50%	-
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℃	-	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

■ Environment:

Parameter	Min.	Typ.	Max.	Notes
Working TEMP	-40℃	+25℃	+60℃	-

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Storage TEMP	-40℃	+25℃	+85℃	-	
Working Humidity	20% RH	-	90% RH	-	
Storage Humidity	10% RH	-	90% RH	-	
Maximum shell TEMP	-	-	+90℃	-	

Safety and EMC:

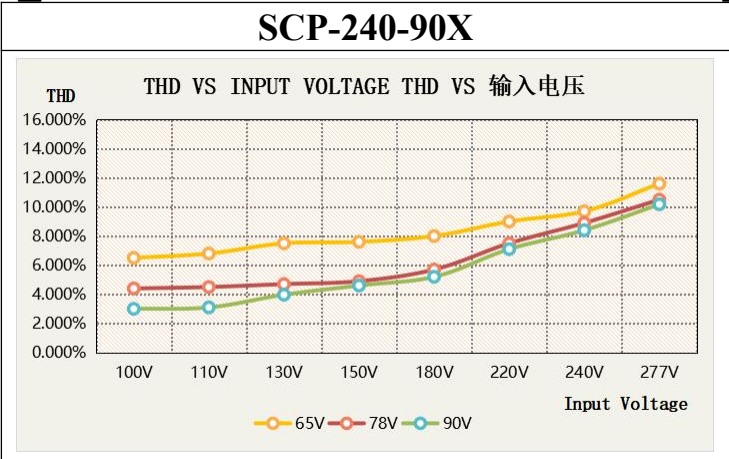
Withstand voltage	I/P - FG:1.75KVAC,I/P-O/P:3.75KVAC, I/P-dimming: 3.75KVAC,O/P-dimming: 0.5KVAC				
isolation resistance	≧10MΩ at I/P - FG 500VDC Test				
leakage current	<0.75mA/277Vac				
Earthing resistance	<0.1Ω / 25A 1 min				
Surge	Differential mode: L-N +/- 6KV (2 ohm),common mode:L, N-E +/- 10KV				
Conducted Electromagnetic Interference	-				
Radiated Electromagnetic Interference	-				

NOTE:

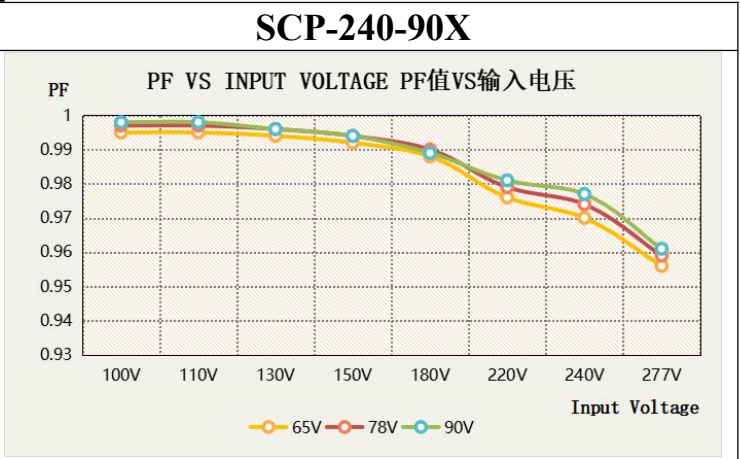
1)All parameters NOT specially mentioned are measured at 230Vac （50Hz）input, rated load and 25℃ of ambient temperature.

2) Tolerance:includes set up tolerance,lineregulation and load regulation.

THD VS INPUT VOLTAGE

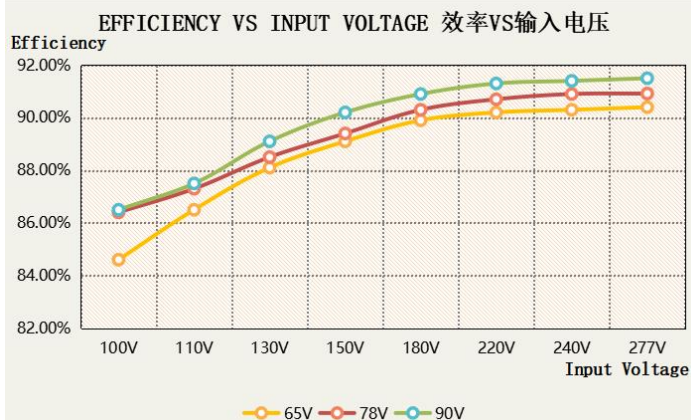


PF VS INPUT VOLTAGE



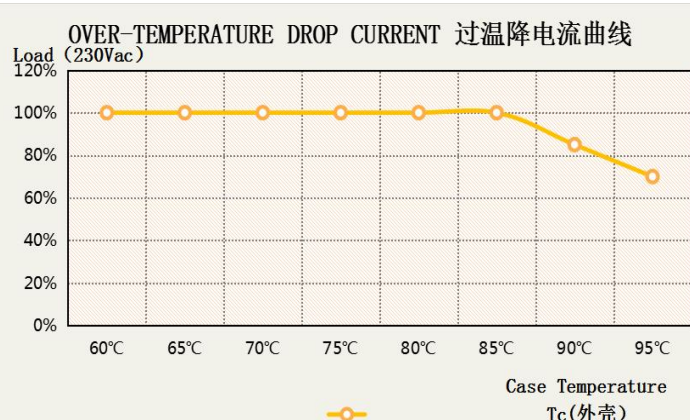
EFFICIENCY VS INPUT VOLTAGE CURRENT

SCP-240-90X



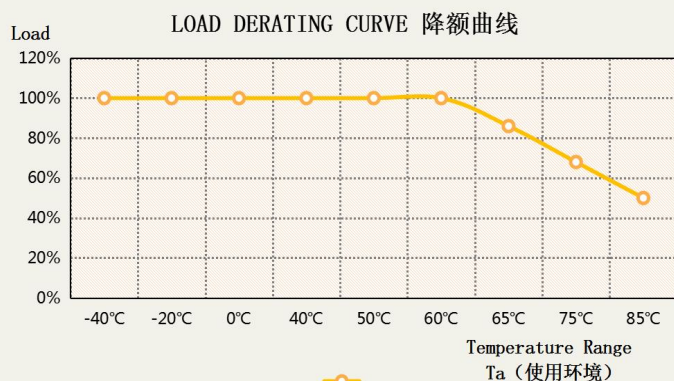
OVER-TEMPERATURE DROP

SCP-240-90X



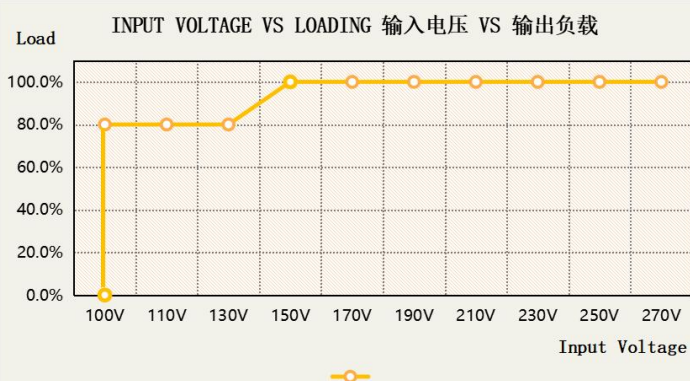
LOAD DERATING CURVE

SCP-240-90X

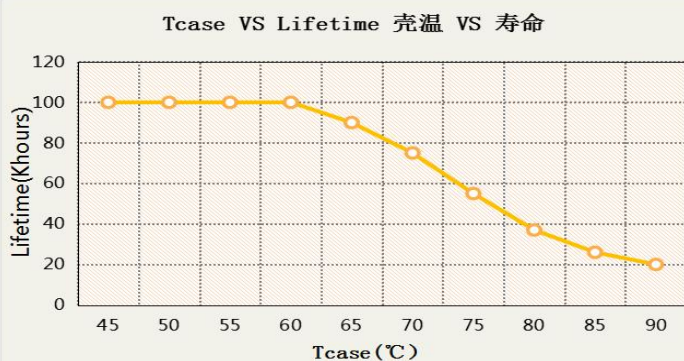


INPUT VOLTAGE VS LOADING

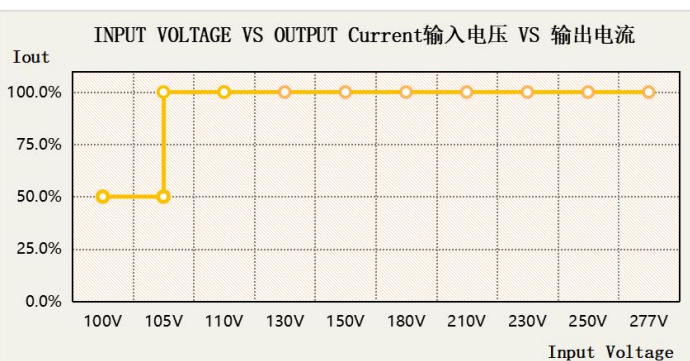
SCP-240-90X



TC VS LIFETIME



UNDER-VOLTAGE DROP CURRENT



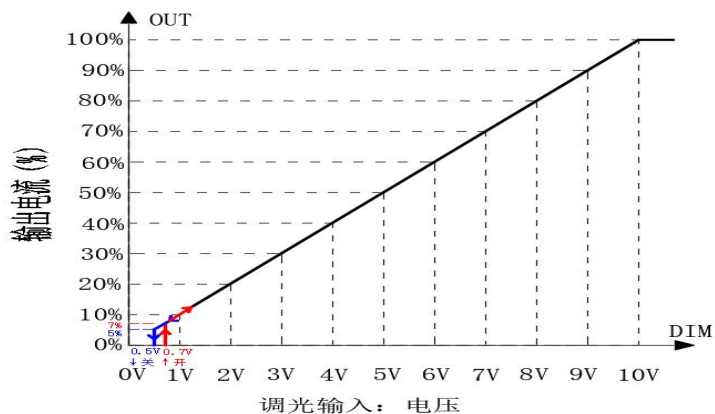
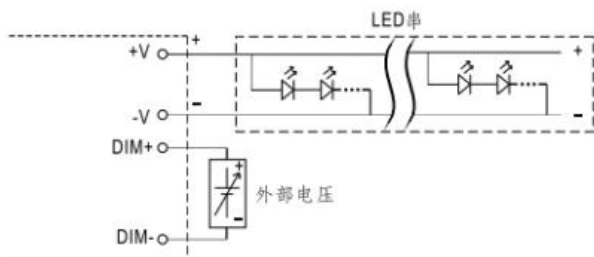
THE DIMMING CURVE :

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

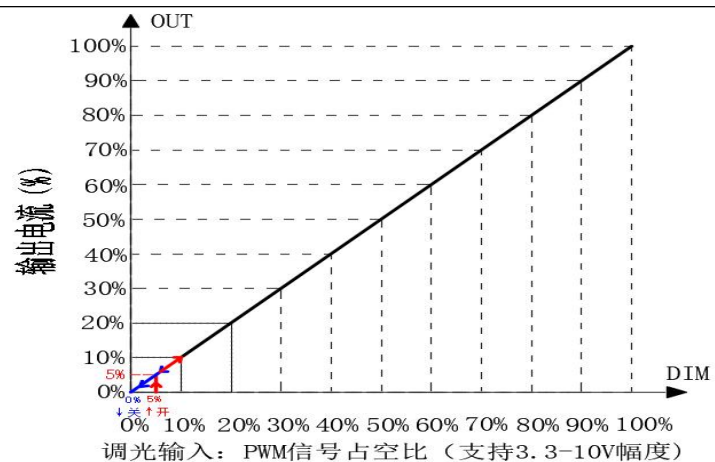
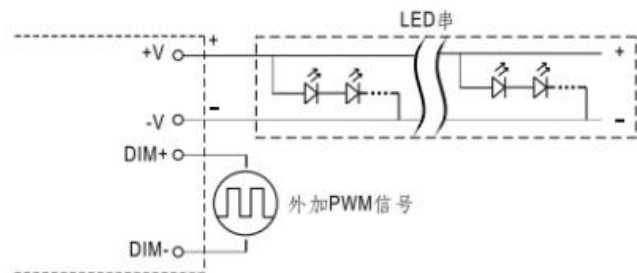
0-10V dimming

Applying additive 0-10VDC



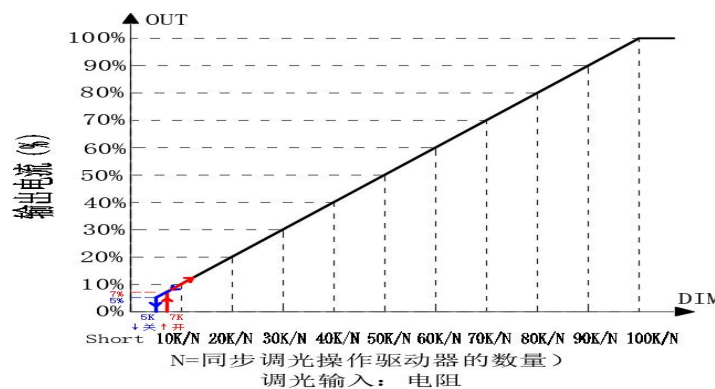
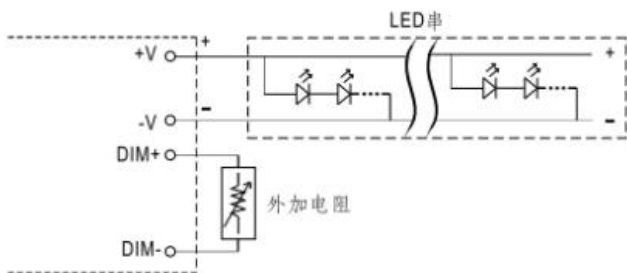
PWM dimming (PWM frequency 10V 1KHZ)

Applying additive PWM signal (Frequency 0.2K-10K)



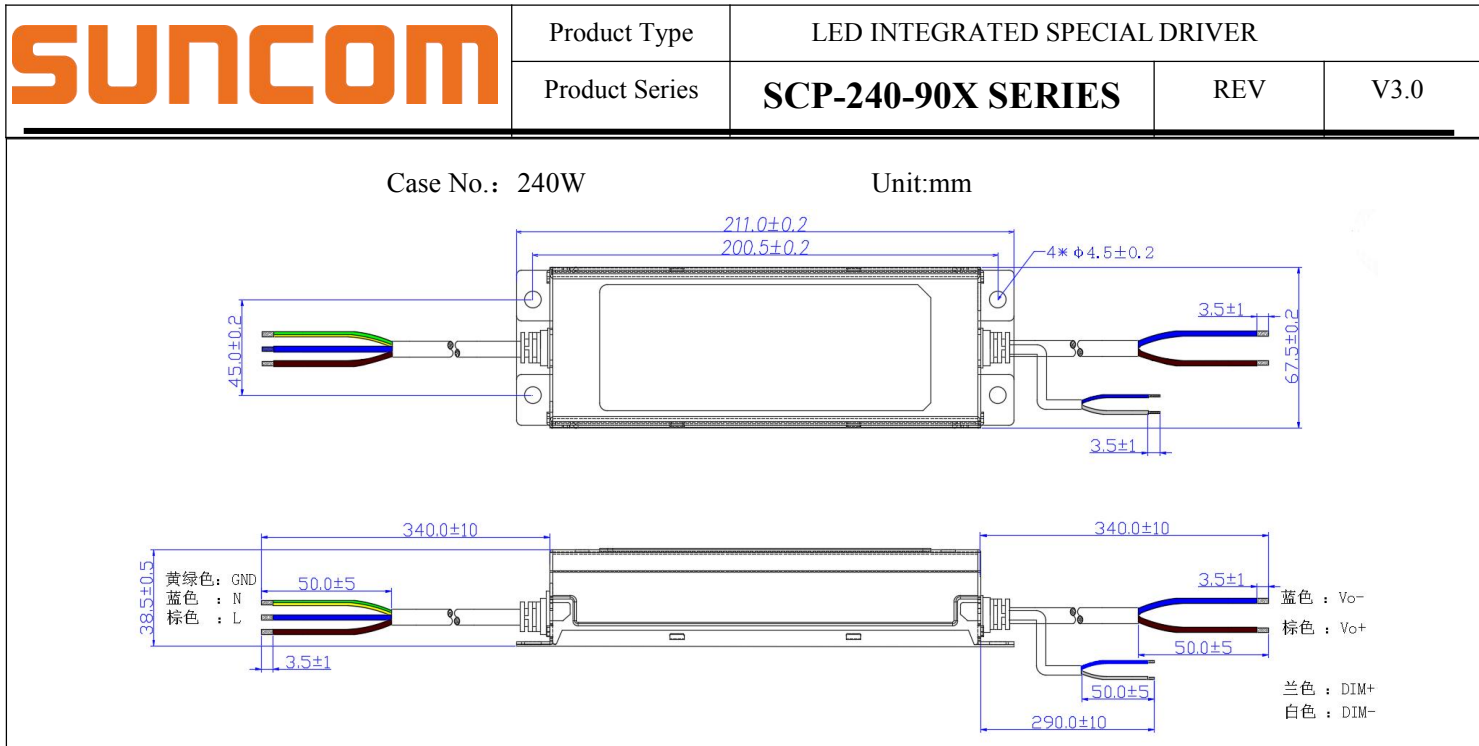
Resistor dimming (100K)

Applying additive resistance (0-100K)



MECHANICAL SPECIFICATION & PACKING:

Bare Plate Dimension	179*60*29mm(L*W*H)
Final Dimension	211*67.5*38.5mm(L*W*H)
Product Weight	1050g



Nameplate

Dimension: 133*46mm Style: sticker

SCP-240-90A		SCP-240-90B	
SUNCOM SCP-240-90A (型号)LED控制装置		SUNCOM SCP-240-90B (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~3.2A 50/60Hz η:≥91% PF:≥0.95 ta:60°C tc:90°C •tc 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~	Vout(输出):54-90V = 1900-3600mA Max.Uout(最大电压): 110V = Rated Power(额定功率):240W (BU蓝)Vo - ○ (BN棕)Vo + ○ (BN棕)Vo + ○ (BU蓝)DIM + ○ (WH白)DIM - ○	OUTPUT 输出端 ☐ ACN(BU蓝) ☐ ACL(BN棕) ☒ (GN绿/YL黄)
MADE IN CHINA (中国制造)	   IP65 SELV	MADE IN CHINA (中国制造)	   IP65 SELV
SCP-240-90C			
SUNCOM SCP-240-90C (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~3.2A 50/60Hz η:≥91% PF:≥0.95 ta:60°C tc:90°C •tc 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~	Vout(输出):54-90V = 1900-3600mA Max.Uout(最大电压): 110V = Rated Power(额定功率):240W (BU蓝)Vo - ○ (BN棕)Vo + ○ (VT紫)DIM + ○ (GY灰)DIM - /12V - ○ (PK粉)12V + ○	OUTPUT 输出端 ☐ ACN(BU蓝) ☐ ACL(BN棕) ☒ (GN绿/YL黄)
MADE IN CHINA (中国制造)	   IP65 SELV		