

SUNCOM	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	SCP-200-90X SERIES	REV	V3.0

SPECIFICATION FOR APPROVAL

CUSTOMER:		
MODEL NO.:	SCP-200-90X 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		



	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	SCP-200-90X SERIES	REV	V3.0

■ CHANGE HISTORY

[illegible]

SUNCOM	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	SCP-200-90X 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.

■ MODEL LIST:

Model	Rated Power	Input Voltage	Output Voltage	Output Current	Default current @72V	THD. (Typ)	PF. (Typ)
SCP-200-90X	200W	100-277Vac	54-90V	1.6A-3A	2.5A	8.0%	0.97

NOTE: All parameters NOT special mentioned are measured at 230Vac input, rated load and 25°C 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			√	

NOTE:When using the B/C version, it is recommended that the LED voltage is above 30V to prevent the dimming shutdown from failing to turn off the LED

SUNCOM	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	SCP-200-90X SERIES	REV	V3.0

■ ELECTRICAL SPECIFICATION :

◆ Input performance:

Parameter	Min.	Typ.	Max.	Notes.	备注
Voltage Range	90Vac	100-277Vac	305Vac	-	
Frequency Range	47Hz	50/60Hz	63Hz	-	
AC Current	-	-	2.8A	-	
Inrush Current	-	-	70A	At 230Vac input,25°C cold start	
PF.	0.95	0.97	-	At 230Vac input,full load	
THD.	-	8.0%	15%		

◆ Output performance:

Parameter	Min.	Typ.	Max.	Notes
Voltage Range	54VDC	-	90VDC	-
Current Range Regulation	1.6A	-	3.0A	-
Rated Power	-	-	200W	Output Voltage > 66V
Over Voltage	100V		110V	-
Efficiency	≧91%	91.5%	-	Measured at full load and 230Vac input
Current Tolerance	-5%	-	+5%	-
Line Regulation	-5%	-	+5%	-
Load Regulation	-3%	-	+3%	-
Current Ripple	-	±48%	<±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°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

■ Environment

SUNCOM	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	SCP-200-90X SERIES	REV	V3.0

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℃	-

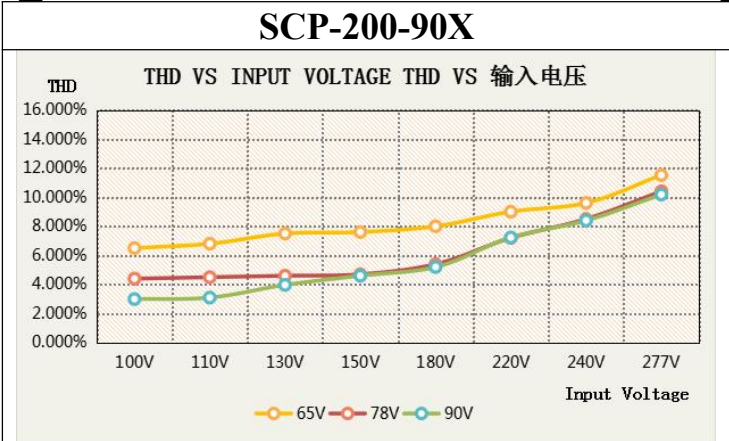
■ Safety and EMC:

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	≧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 (12 ohm)
Conducted Electromagnetic Interference	-
Radiated electromagnetic interference	-

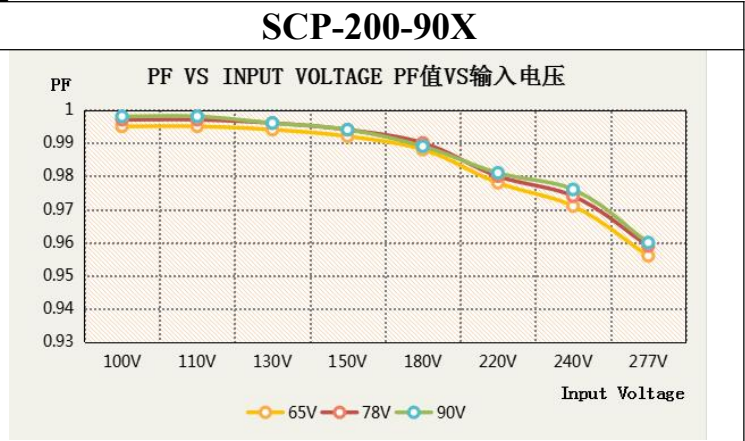
NOTE:

- 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, line regulation and load regulation.

■ THD VS INPUT VOLTAGE



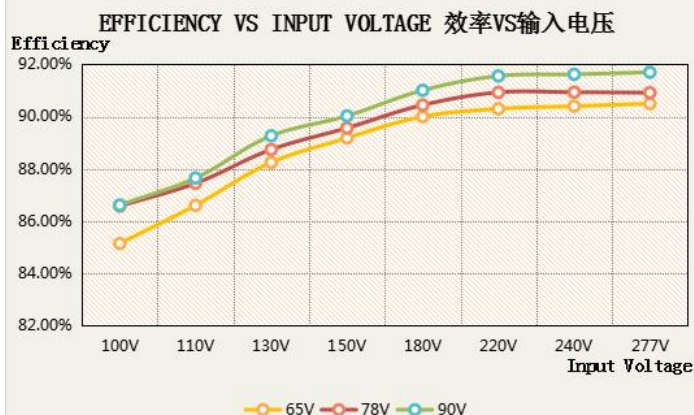
■ PF VS INPUT VOLTAGE



SUNCOM	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	SCP-200-90X SERIES	REV	V3.0

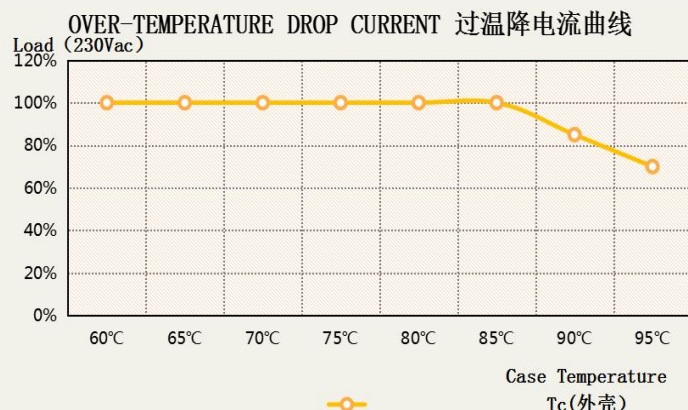
EFFICIENCY VS INPUT VOLTAGE

SCP-200-90X



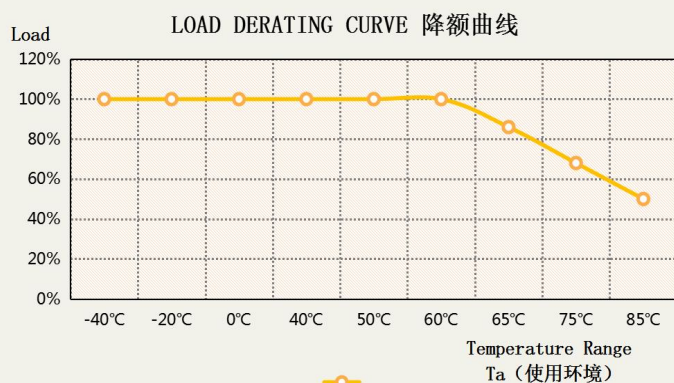
OVER-TEMPERATURE DROP CURRENT

SCP-200-90X



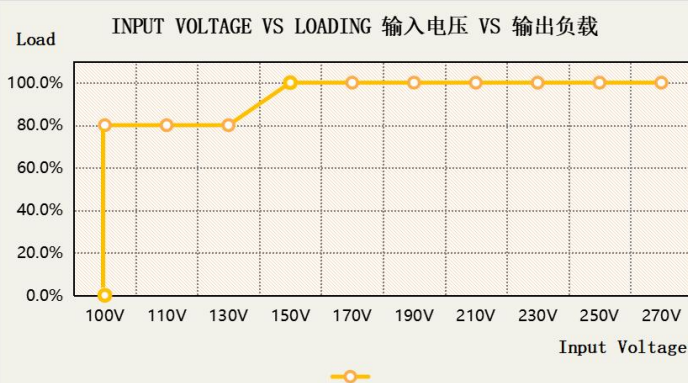
LOAD DERATING CURVE

SCP-200-90X



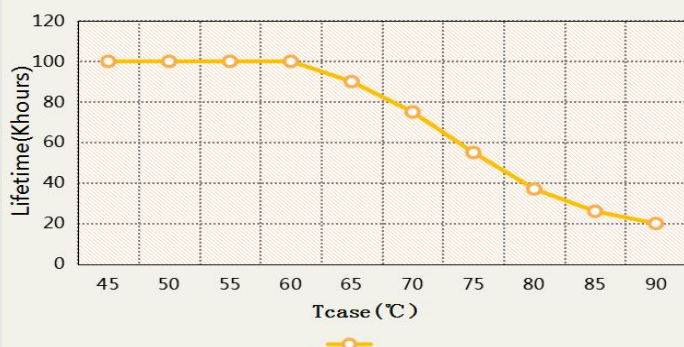
INPUT VOLTAGE VS LOADING

SCP-200-90X



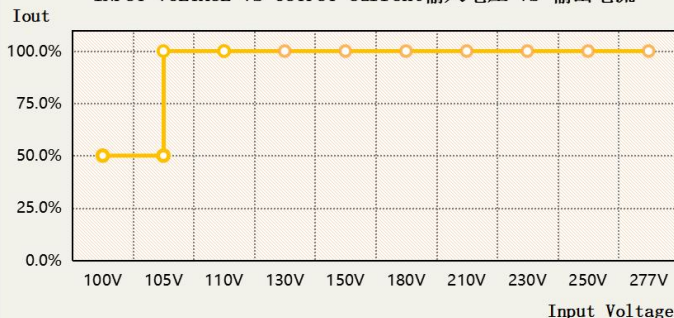
TC VS LIFETIME

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 :

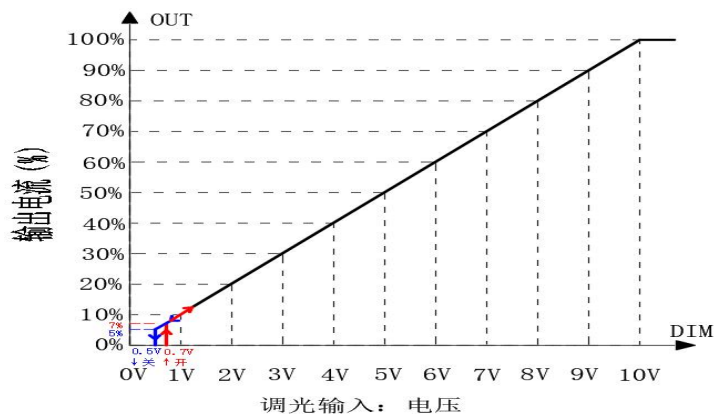
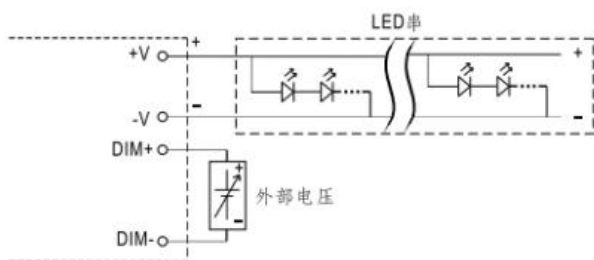
Three-in-one dimming function (Type B/Type C) :

- 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

SUNCOM	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	SCP-200-90X SERIES	REV	V3.0

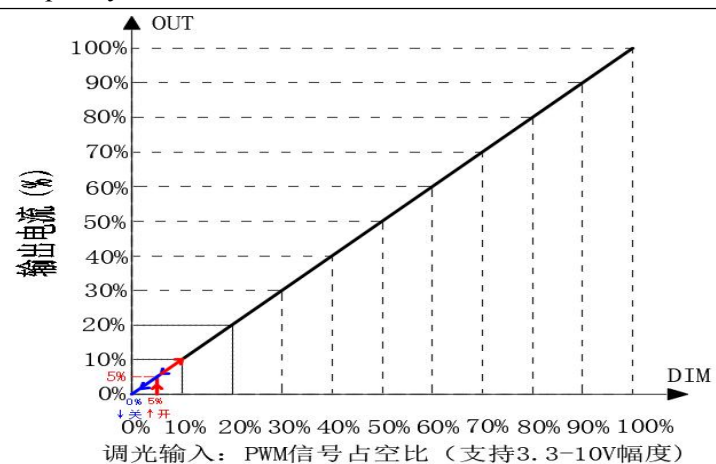
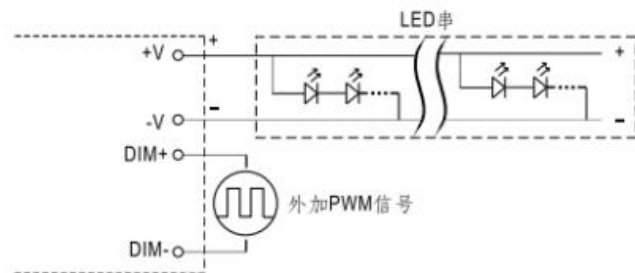
0-10V Dimming

Applying additive 0-10VDC



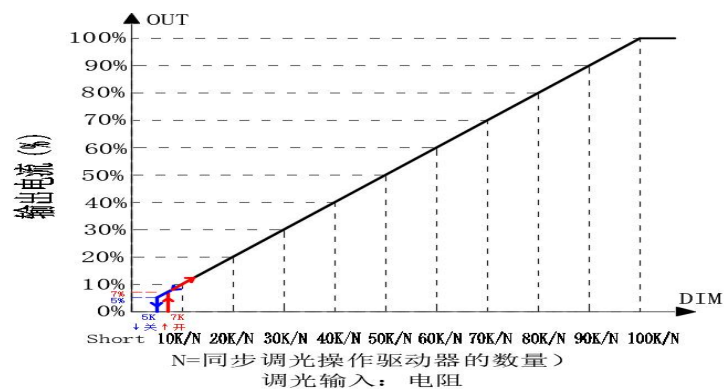
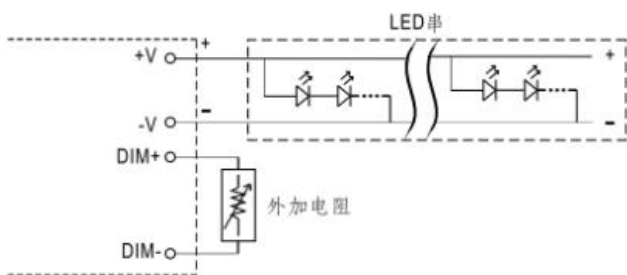
PWM Dimming (PWM frequency 10V 1KHZ)

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



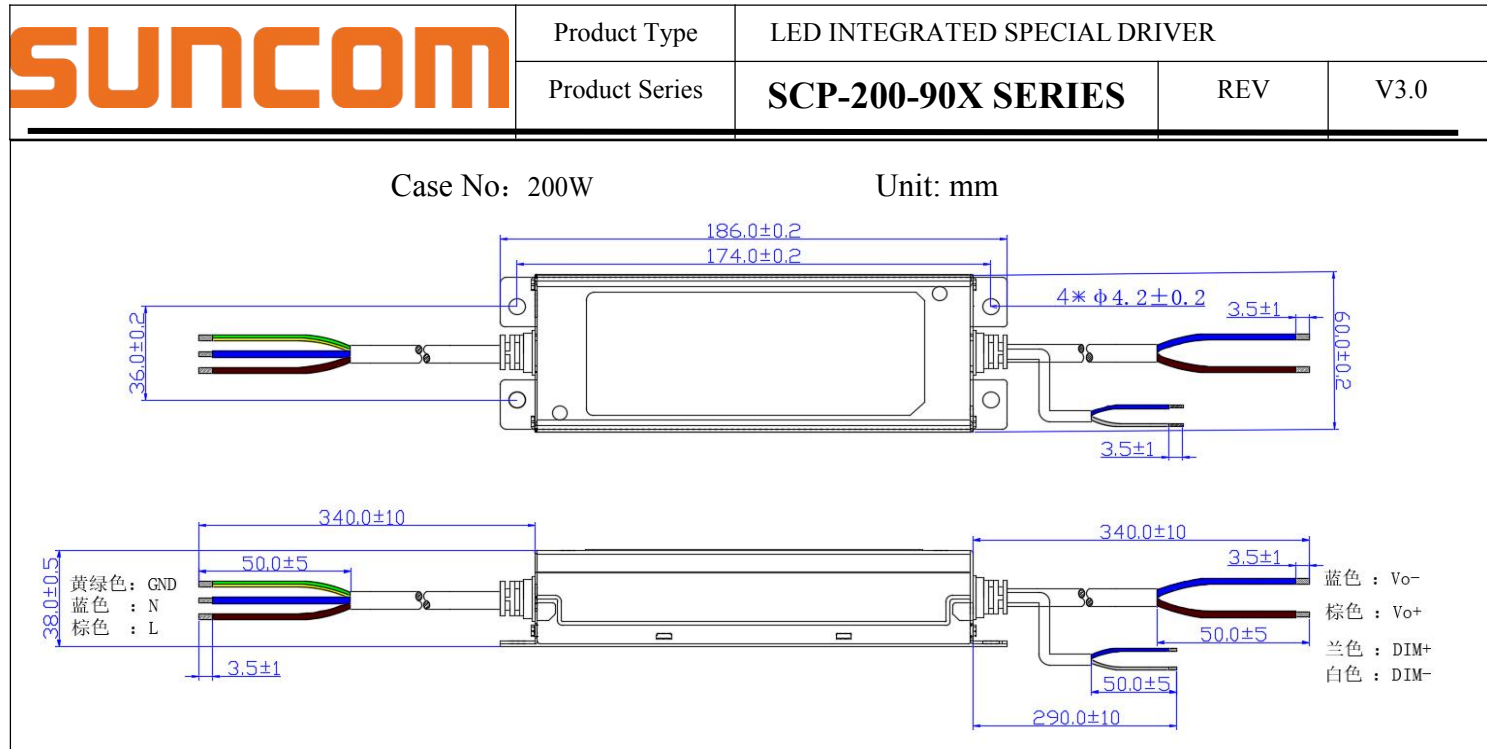
Resistor dimming (100K)

Applying additive resistance (0-100K)



MECHANICAL SPECIFICATION & PACKING :

Bare Plate Dimension	151.4*54.2*29mm(L*W*H)
Final Dimension	186*60*38mm(L*W*H)
Product Weight	750g



Nameplate

Dimension: 123*45mm Style: sticker

SCP-200-90A		SCP-200-90B	
SUNCOM SCP-200-90A (型号)LED控制装置		SUNCOM SCP-200-90B (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~2.8A 50/60Hz η:≥91% PF:≥0.95 ta:60°C tc:90°C •tc Max.Uout(最大电压):110V≡ Rated Power(额定功率):200W ta:50°C@Vin100-200V~ ta:60°C@Vin200-277V~ tc:90°C	Vout(输出):54-90V≡1600-3000mA (BU蓝)Vo - ○ (BN棕)Vo + ○ (GN绿/YL黄)	OUTPUT 输出端 (BU蓝)Vo - ○ (BN棕)Vo + ○ (BU蓝)DIM + ○ (WH白)DIM - ○
MADE IN CHINA (中国制造)		IP65	SELV

SCP-200-90C			
SUNCOM SCP-200-90C (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~2.8A 50/60Hz η:≥91% PF:≥0.95 ta:60°C tc:90°C •tc Max.Uout(最大电压):110V≡ Rated Power(额定功率):200W ta:50°C@Vin100-200V~ ta:60°C@Vin200-277V~ tc:90°C	Vout(输出):54-90V≡1600-3000mA (BU蓝)Vo - ○ (BN棕)Vo + ○ (VT紫)DIM + ○ (GY灰)DIM - /12V - ○ (PK粉12V) + ○	OUTPUT 输出端 (BU蓝)Vo - ○ (BN棕)Vo + ○ (VT紫)DIM + ○ (GY灰)DIM - /12V - ○ (PK粉12V) + ○
MADE IN CHINA (中国制造)		IP65	SELV