

Product Type	LED INTEGRATED SPECIAL DRIVER				
Product Series	SCP-100-56X Series	REV	V3.0		

SPECIFICATION FOR APPROVAL

CUSTOMER					
MODEL NO.	SCP-100-56X Series				
Rev.		V3.0			
SAMPLE DATE :					
	Cı	ustomer Confirmation			
TESTED BY		CHECKED BY	APPROVED BY		
NOTES					
Please return to us one	copy of "S	SPECIFICATION FOR APPROVAL"	with you approved signature.		
SUNCOM Confirmation					
TESTED BY		CHECKED BY	APPROVED BY		

Guangdong Suncom Power Technology Co., Ltd

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TEL:+86-760-2232 6609, 2816 8136 FAX:+86-760-8760 0929



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■ CHANGE HISTORY

DATE	CAUSES OF CHANGE	REV.	APPROVED
2021.10.15	Initial Version	V1.0	
2022.5.9	Adding case Temperature / lifespan curve diagram	V2.0	
2023.6.18	Updating Stickers; adding item power 30W	V3.0	



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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.





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■ MODELLIST

Model	Rated Power	Input Voltage	Output Voltage	Output Current	Default Current @42V	THD. (Typ.)	PF. (Typ.)
SCP-100- 56X	100W	100-277Vac	28-56V	1.6A-3A	2.1A	10%	0.97

NOTE: All parameters NOT special mentioned are measured at 230Vac input, rated load and 25 $^{\circ}$ C of ambient temperature.

■ "X"Means Additional Function

"X "	Time control (Adjustable current+ default the power to be half after continuing working 6 hours: suffix F)	ADJ Current (suffix A)	0-10V Dim/PWM Dim/Resistor Dim: Suffix B	0-10V Dim/PWM Dim/Resistor Dim+AUX 12V : Suffix C
В			$\sqrt{}$	

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;

■ ELECTRICAL SPECIFICATION

◆ Input performance:

Parameter	Min.	Тур.	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℃ cold start	
PF.	0.95	0.97	-	44,0004	
THD.	-	10%	15%	At 230Vac input,full load	



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♦ Output performance

V Gatpat poriorma	◆ Output performance					
Parameter	Min.	Тур.	Max.	Notes.		
Voltage Range	28VDC	-	56VDC	-		
urrent range Regulation	1.6A	-	3.0A	-		
Rated Power	-	-	100W	Output Voltage > 33V		
Over Voltage	63V		70V	-		
Efficiency	≥90%	90.5%	-	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		
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		
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		

■Environment:

Parameter	Min.	Тур.	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℃	-



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■ Safety regulations and EMC:

Withstand voltage	I/P - FG:1.75KVAC,I/P-O/P:3.75KVAC, I/P-Dim: 3.75KVAC,O/P-Dim: 0.5KVAC
isolation resistance	≧10MΩ at I/P - FG 500VDC Test
leakage current	<0.75mA/277Vac
Earthing resistance	<0.1Ω / 25A 1 min
Surge	L-N +/- 6KV (2 ohm); L, N-E +/- 10KV (12 ohm)
Conducted Electromagnetic Interference	_
Radiated electromagnetic interference	-

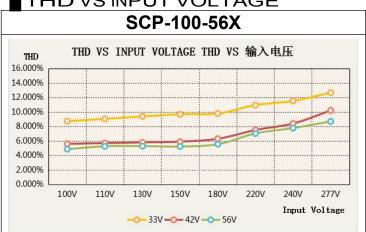
NOTE:

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

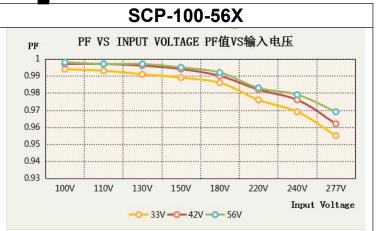


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THD VS INPUT VOLTAGE

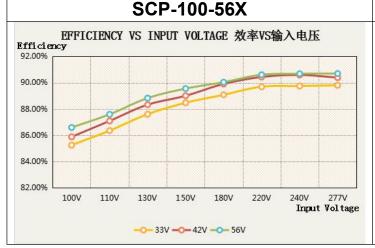


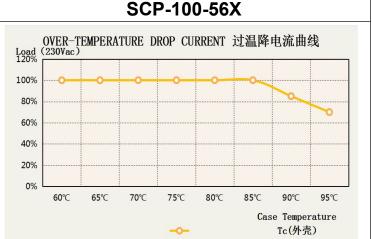
PF VS INPUT VOLTAGE



EFFICIENCY VS INPUT VOLTAGE CÜRRENT

■ OVER-TEMPERATURE DROP





LOAD DERATING CURVE

INPUT VOLTAGE VS LOADING SCP-100-56X SCP-100-56X

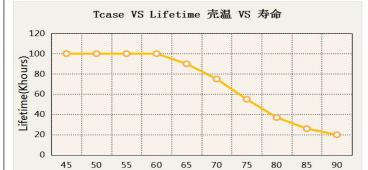






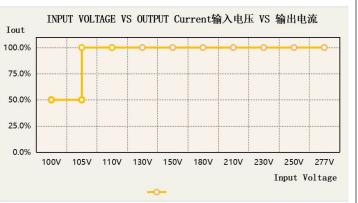
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Tcase(℃)

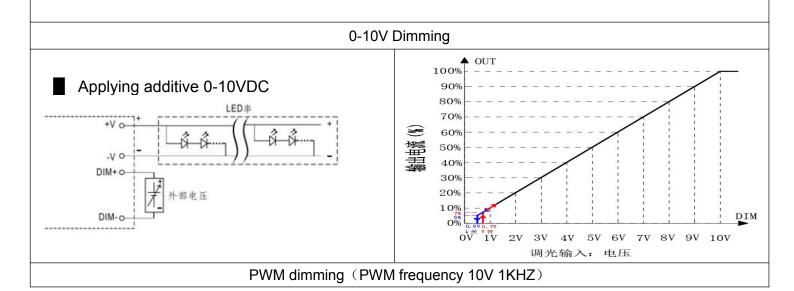




THE DIMMING CURVE

Three-in-one dimming function (Type B/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 function (Type C): output voltage:12V auxiliary, and output max current 250mA.





Product Type

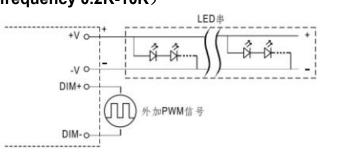
Product Series

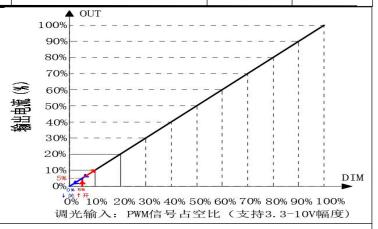
SCP-100-56X Series

REV

V3.0

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

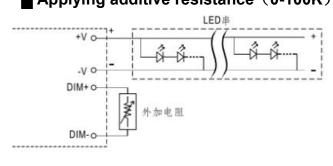


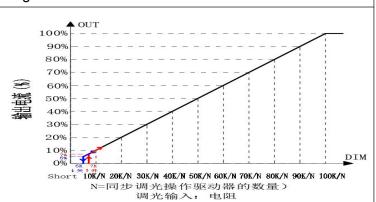


LED INTEGRATED SPECIAL DRIVER

Resistor Dimming (100K)

■ Applying additive resistance (0-100K)





■ MECHANICAL

SPECIFICATION & PACKING

INIEST II (I TIS) (E	01 2011 107 (11011 × 17 (011110	
Bare plate dimension	114*44*26mm(L*W*H)	
Final dimension	143*49*33mm(L*W*H)	
Product Weight	420g	
Case No.: 100W	Unit:mm	
	131.0±0.2 4* \$\phi 4.5±0.2 \\ 3.5±1 \\	
340.0±10 50.0±5 黄绿色: GND 蓝色: N ER 棕色: L	340.0±10 3.5±1 蓝色: Vo- 棕色: Vo+ 兰色: DIM+ 白色: DIM-	



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IP65

MADE IN CHINA

Product Type

LED INTEGRATED SPECIAL DRIVER

Product Series SCP-100-56X Series

REV

V3.0

Nameplate Size: 84*31mm Style: sticker SCP-100-56A SCP-100-56B SCP-100-56B (型号)LED控制装置 SCP-100-56A (型号)LED控制装置 SUNCOM SUNCOM Vin(输入):100-277V~1.4A 50/60Hz Vout(输出):28-56V == 1600-3000mA OUTPUT 輸出端 Vin(输入):100-277V~1.4A 50/60Hz OUTPUT 输出端 Vout(输出):28-56V == 1600-3000mA PF:≥0.95 Max.Uout(最大电压): 70V === PF:≥0.95 Max.Uout(最大电压): 70V === O ACN(BU蓝) O ACN(BU蓝) (BU蓝)Vo - 〇 (BN棕)Vo + 〇 •tc Rated Power(額定功率):100W •tc Rated Power(額定功率):100W O ACL(BN棕) O ACL(BN棕) (BU蓝)DIM + 〇 ta:50°C@Vin100-200V~ (BN棕)Vo + 〇 ta:50°C@Vin100-200V-广东新创电源科技有限公司 www.gdsuncom.com GUANGDONG SUNCOM POWER TECHNOLOGY CO.,LTD 广东新创电源科技有限公司 www.gdsuncom.com GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD ⊕ (GN绿/YL黄) ⊕ (GN绿/YL黄) (WH白)DIM - 〇 ta:60°C@Vin200-277V~ 8 MADE IN CHINA (中国制造) 0 X **IP65** MADE IN CHINA **IP65 SELV SELV** (中国制造) SCP-100-56C SCP-100-56C (型号)LED控制装置 SUNCOM Vin(输入):100-277V~1.4A 50/60Hz Vout(输出):28-56V == 1600-3000mA (BU蓝)Vo - 〇 PF:≥0.95 Max.Uout(最大电压): 70V == O ACN(BU版) (BN棕)Vo + 〇 •tc Rated Power(额定功率):100W O ACL(BN棕) (VT紫)DIM + ○ ta:50°C@Vin100-200V~ (GY灰) DIM-/12V - 〇 广东新创电源科技有限公司 www.gdsuncom.com GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD (PK粉) 12V + 〇 ta:60°C@Vin200-277V~

SELV