

	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	LVS-***W-180X Series	REV	V1.0

SPECIFICATION FOR APPROVAL

CUSTOMER:	
MODEL NO.:	LVS-***W-180X
Rev.	V1.0
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

SUNCOM	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	LVS-***W-180X Series	REV	V1.0

◆ Features :

- Input rated voltage : 100-277Vac 50Hz/60Hz
- Non-isolated, constant current mode output
- Surge protection: L-N :6KV; L/N- E:10KV
- Input undervoltage protection
- 3 in 1 dimming(dim-to-off)
- AUX power:12V/0.25A
- Over temperature drop current
- Output current is adjustable
- THD<10%



◆ Applications:

Application: High bay lighting and other lighting lamps

◆ Description :

This product is a constant current driving power supply, specially designed for LED, with low harmonics (< 10%), high power factor, the output current can be adjusted flexibly according to the LED lamp voltage. 3 in 1 dimming function(optional),12V AUX power (optional). Built-in surge protection,output open-circuit, short-circuit protection, greatly improve the safety and reliability of the product.

■ MODELLIST :

Model	Rated Power	Input Voltage	Output Voltage	Output Current	THD. (Typ)	PF. (Typ)
LVS-240W-180A/B/C	240W	100-277Vac	100-180V	1200mA-2200mA	5.5	0.980
LVS-200W-180A/B/C	200W	100-277Vac	100-180V	1000mA-1800mA	5.6	0.980
LVS-150W-180A/B/C	150W	100-277Vac	100-180V	750mA-1400mA	5.8	0.975
LVS-120W-180A/B/C	120W	100-277Vac	100-180V	500mA-950mA	6	0.975

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

■ “X”Means Additional Function

“X”	ADJ Current (Adjustable current: suffix A)	0-10V/PWM Dim/Resistor (Three-in-one dimming: suffix B)	0-10V/PWM Dim/Resistor +AUX 12V (Three-in-one dimming + auxiliary group source: suffix C)
C			√

■ ELECTRICALSPECIFICATION:

- ◆ Input performance:

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Parameter	Min.	Typ.	Max.	Notes.
Voltage Range	90Vac	100-277Vac	305Vac	
Frequency Range	47Hz	-	63Hz	
AC Current	-	-	3.0A	LVS-240W-180A/B/C
	-	-	2.5A	LVS-200W-180A/B/C
	-	-	1.8A	LVS-150W-180A/B/C
	-	-	1.5A	LVS-120W-180A/B/C
Inrush Current	-	-	60A	At 230Vac input, 25°C cold start
PF. At 230Vac input, full load	0.95	0.980	-	LVS-240W-180A/B/C
	0.95	0.980	-	LVS-200W-180A/B/C
	0.95	0.975	-	LVS-150W-180A/B/C
	0.95	0.975	-	LVS-120W-180A/B/C
THD. At 230Vac input, full load	-	5.5%	$\leq 10\%$	LVS-240W-180A/B/C
	-	5.6%	$\leq 10\%$	LVS-200W-180A/B/C
	-	5.8%	$\leq 10\%$	LVS-150W-180A/B/C
	-	6%	$\leq 10\%$	LVS-120W-180A/B/C
Under Voltage Protection	70Vac	80Vac	85Vac	Turn off the output voltage and resume work after the AC voltage is normal

◆ Output performance:

Parameter	Min.	Typ.	Max.	Notes
Voltage Range	100VDC	-	180VDC	-
Current Range Regulation	1200mA	-	2200mA	LVS-240W-180A/B/C
	1000mA	-	1800mA	LVS-200W-180A/B/C
	750mA	-	1400mA	LVS-150W-180A/B/C
	500mA	-	950mA	LVS-120W-180A/B/C
Rated Power	-	-	240W	LVS-240W-180A/B/C
	-	-	200W	LVS-200W-180A/B/C
	-	-	150W	LVS-150W-180A/B/C
	-	-	120W	LVS-120W-180A/B/C
Over Load Voltage	190V	-	220V	-
Efficiency At 230Vac input, full load	$\geq 94\%$	94.5%	-	LVS-240W-180A/B/C
	$\geq 94\%$	94.5%	-	LVS-200W-180A/B/C
	$\geq 94\%$	94.3%	-	LVS-150W-180A/B/C
	$\geq 93\%$	93.5%	-	LVS-120W-180A/B/C
Current Tolerance	-5%	-	+5%	-
Line Regulation	-3%	-	+3%	-

SUNCOM	Product Type		LED INTEGRATED SPECIAL DRIVER		
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Load Regulation	-3 %	-	+3 %	-	
Current Ripple	-	±5 %	<±10 %	-	
Turn-on Delay Time	-	350mS	<0.5s	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℃	-

Safety and EMC:

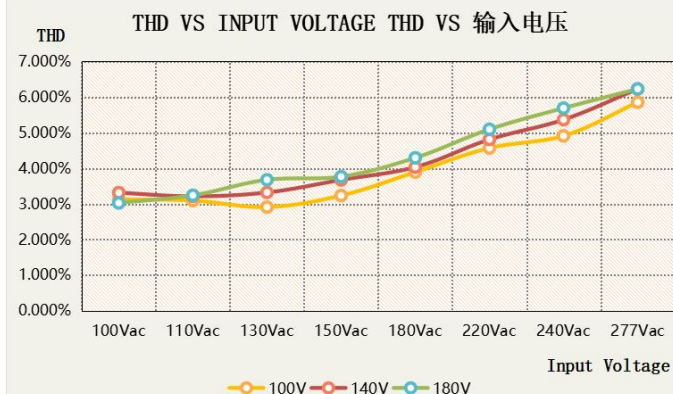
Withstand Voltage	I/P - FG:1.5KVAC, I/P-dimming: 3.75KVAC。
Isolation Resistance	≥ 10MΩ at I/P - FG 500VDC Test
Leakage Current	<0.75mA/277Vac
Earthing Resistance	<0.1Ω / 25A 1 min
Surge	Differential mode: L-N +/- 6KV (2 ohm),common mode: L, N-PE+/- 10KV (12 ohm) The max residual voltage of differential mode is 800V, the max residual voltage of common mode is 2.5KV
Conducted Electromagnetic Interference	≥ 3dB
Radiated Electromagnetic Interference	≥ 3dB

NOTE:

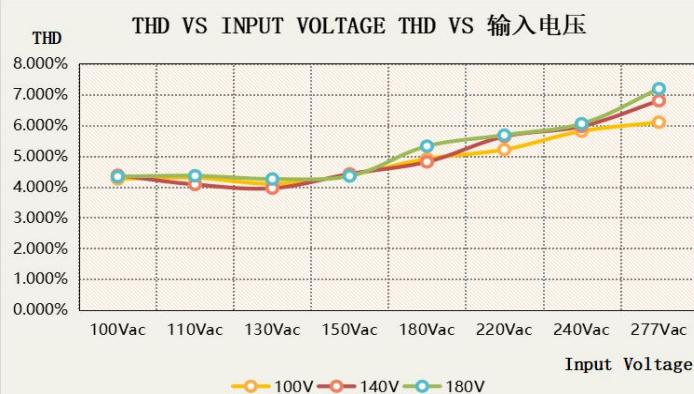
- 1)All parameters are measured at 230Vac (50Hz) input ,rated load and25℃ of ambient temperature, unless otherwise specified.
- 2) Tolerance:includes set up tolerance,lineregulation and load regulation.

THD VS INPUT VOLTAGE

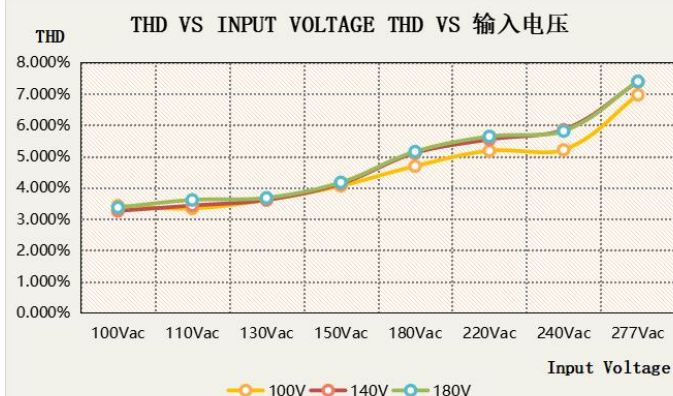
LVS-240W-180A/B/C



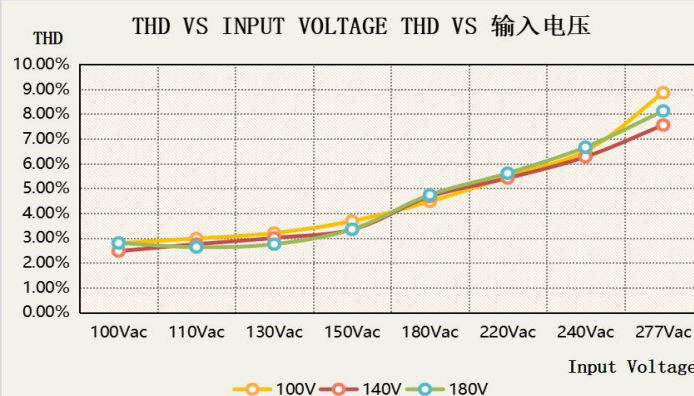
LVS-200W-180A/B/C



LVS-150W-180A/B/C

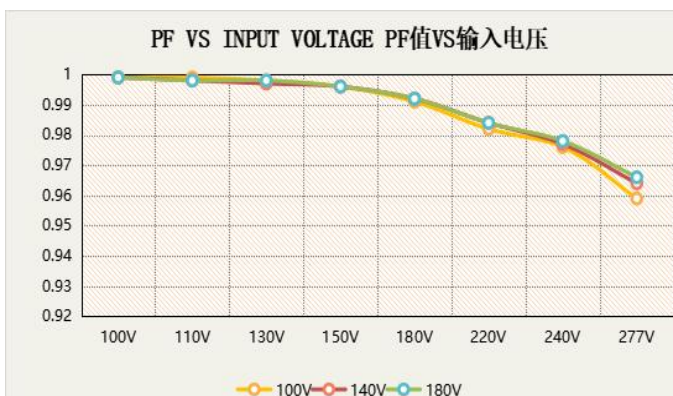


LVS-120W-180A/B/C

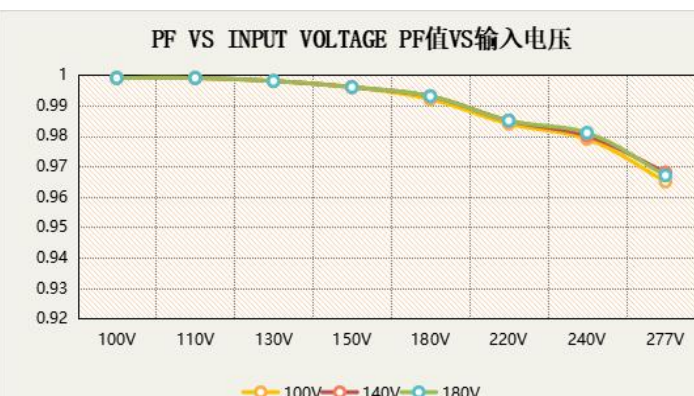


PF VS INPUT VOLTAGE

LVS-240W-180A/B/C



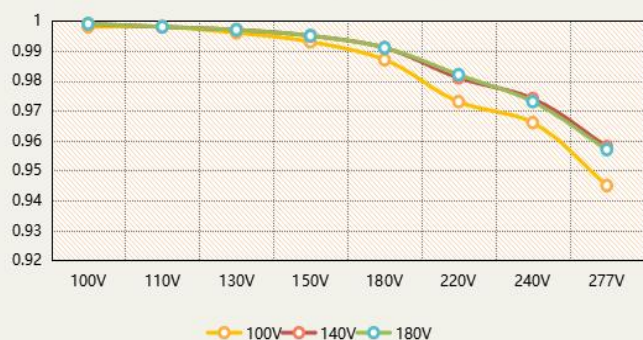
LVS-200W-180A/B/C



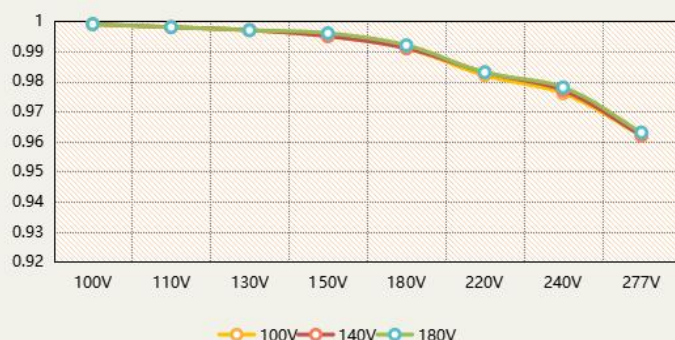
LVS-150W-180A/B/C

LVS-120W-180A/B/C

PF VS INPUT VOLTAGE PF值VS输入电压

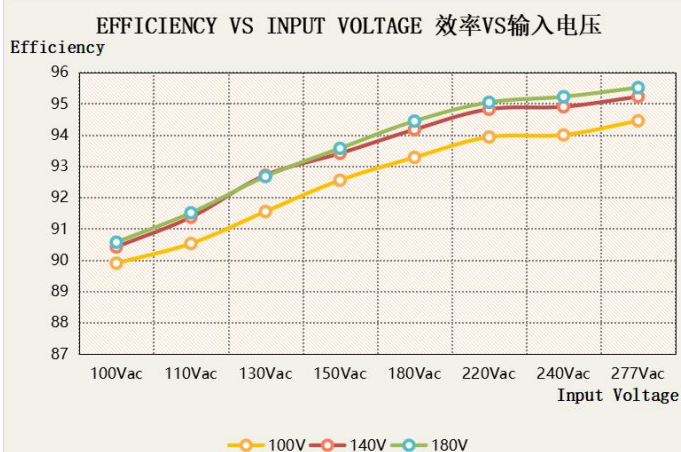


PF VS INPUT VOLTAGE PF值VS输入电压

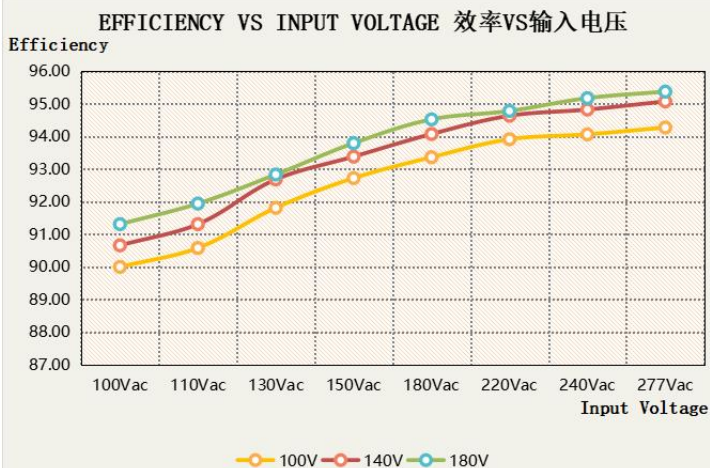


EFFICIENCY VS INPUT VOLTAGE

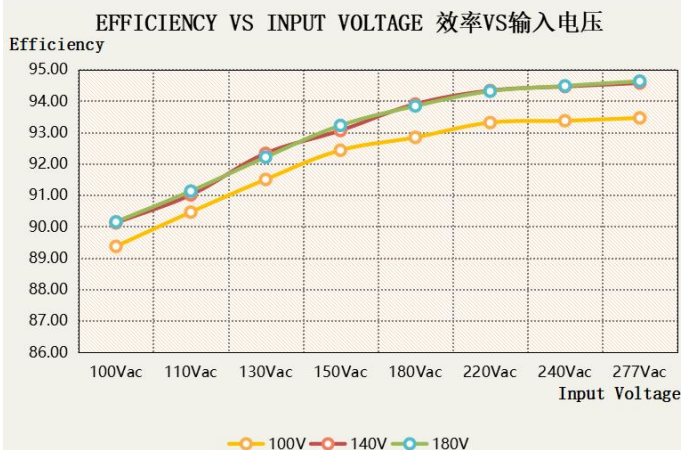
LVS-240W-180A/B/C



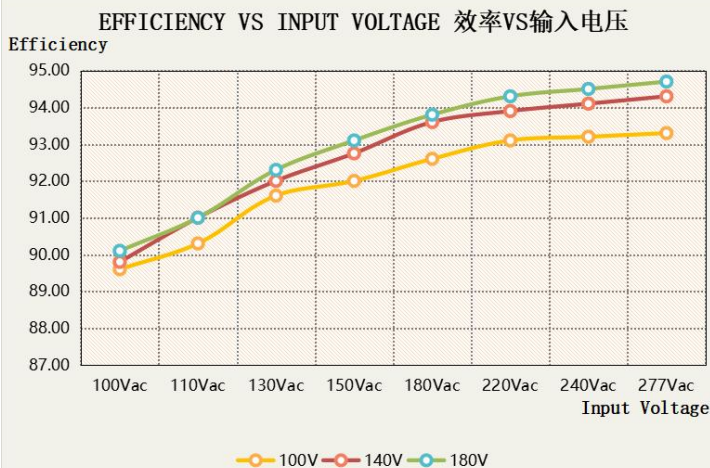
LVS-200W-1810A/B/C



LVS-150W-180A/B/C



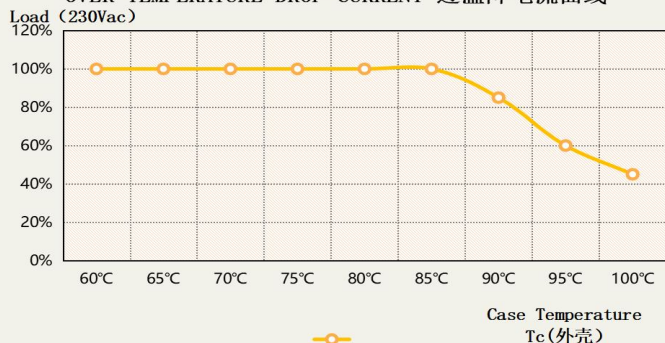
LVS-120W-180A/B/C



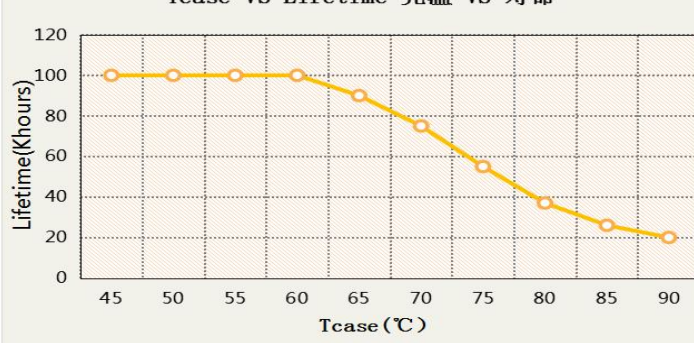
OVER-TEMPERATURE DROP CURRENT

TCASE VS LIFETIME

OVER-TEMPERATURE DROP CURRENT 过温降电流曲线

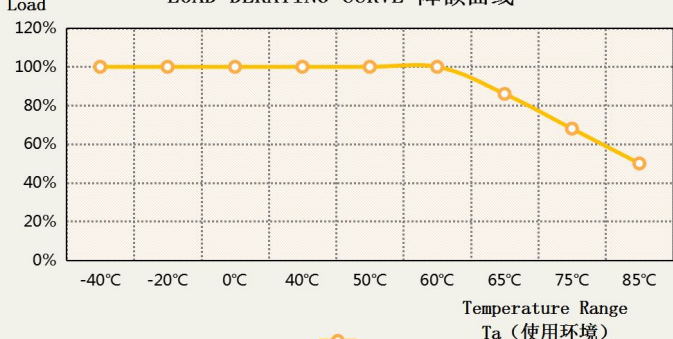


Tcase VS Lifetime 壳温 VS 寿命



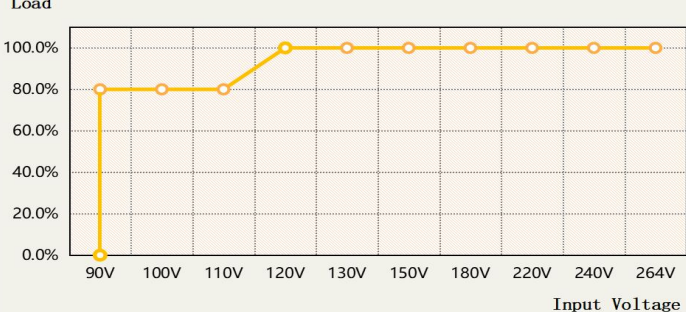
LOAD DERATING CURVE

LOAD DERATING CURVE 降额曲线



INPUT VOLTAGE VS LOADING

INPUT VOLTAGE VS LOADING 输入电压 VS 输出负载



THE DIMMING CURVE:

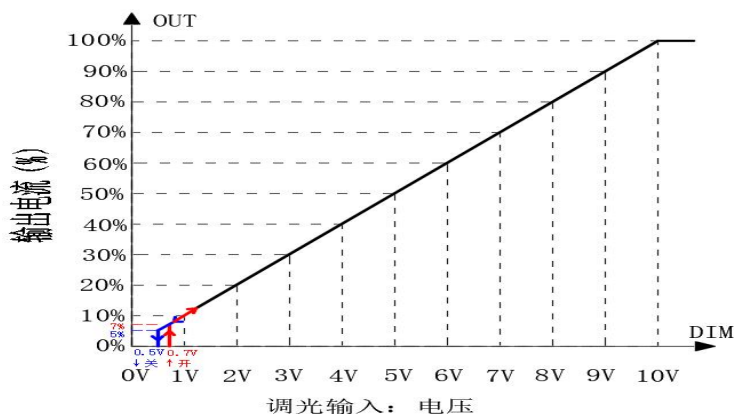
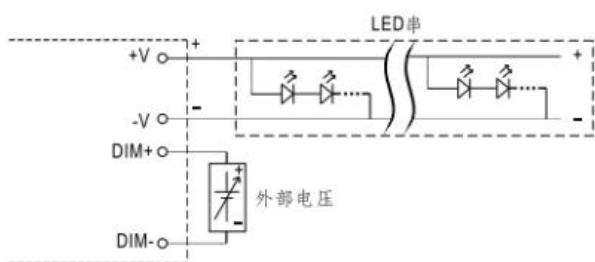
Three-in-one dimming function:

- Connect a resistor or 0-10V DC voltage or PWM signal between DIM+ (purple) and DIM- (gray wire) to adjust the value of the output constant current
- Output current of dimming port: 100uA (typical value)
- 112V auxiliary group power output, the maximum output current is 250mA (optional)

There in one dimming curve

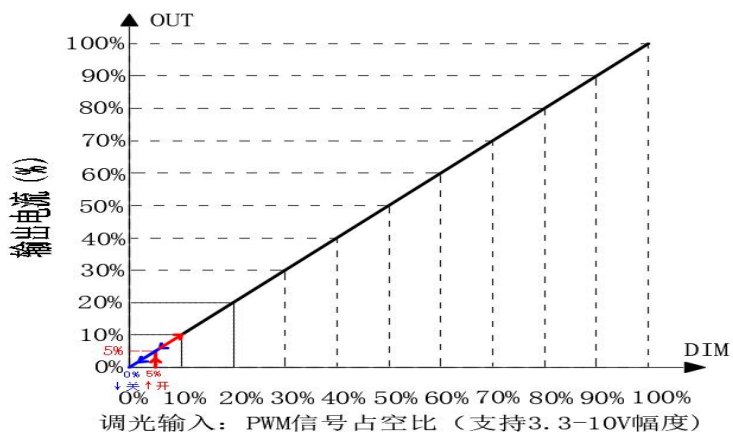
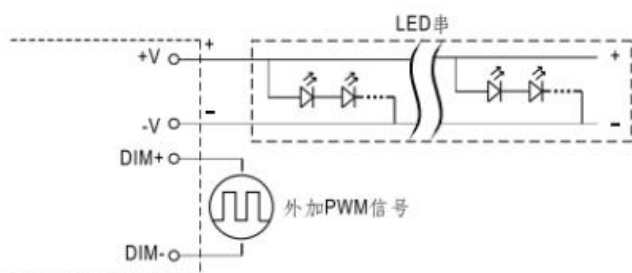
0-10V Dimming

With an external 0-10VDC voltage



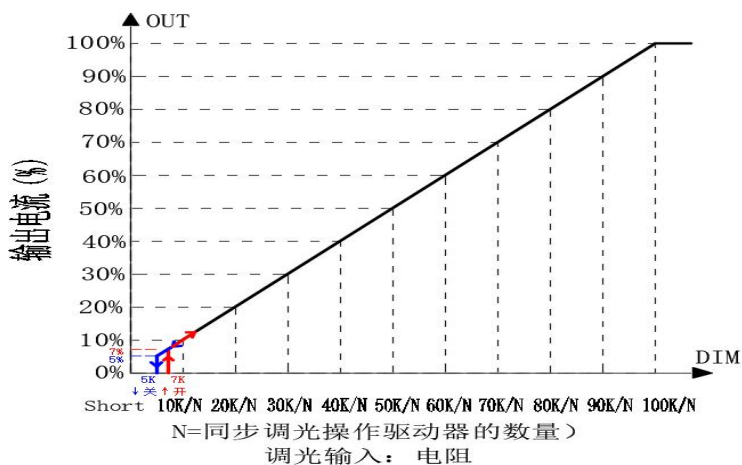
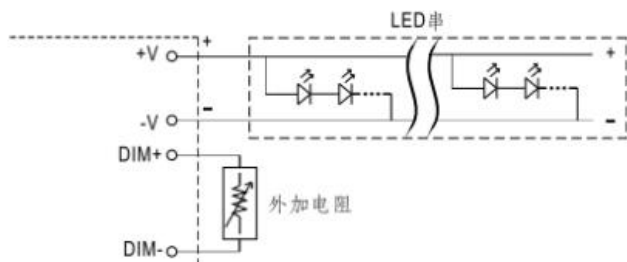
PWM Dimming (PWM frequency 1KHZ)

With external PWM signal (frequency 0.2K-5K)



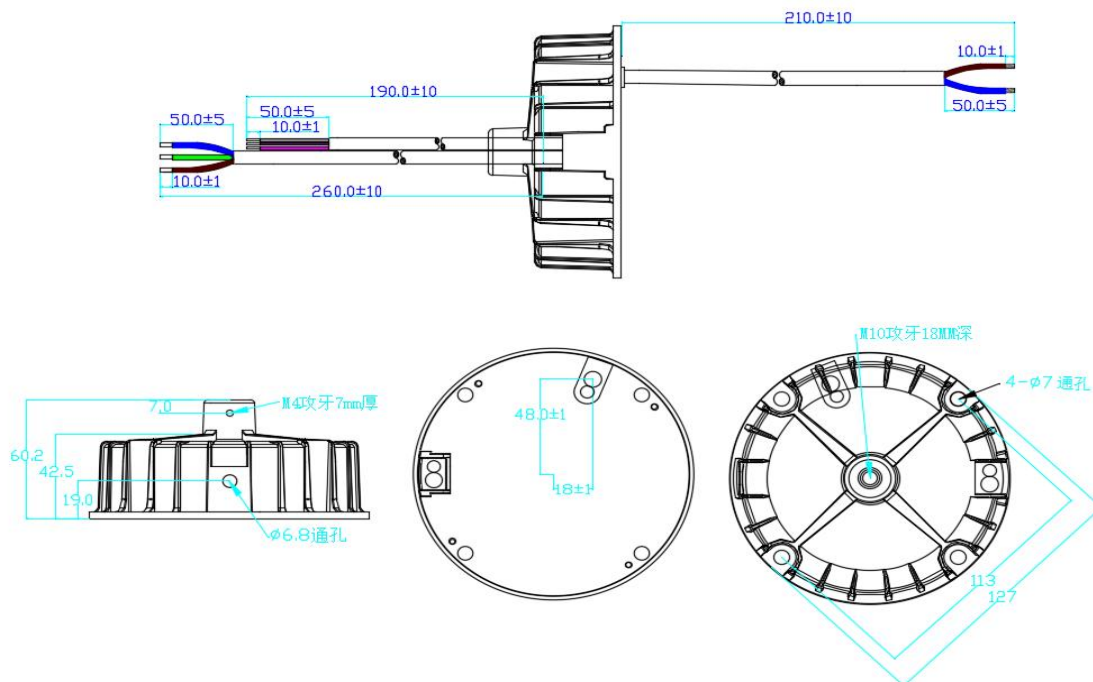
Resistor dimming (100K)

With external resistance (0-100K)

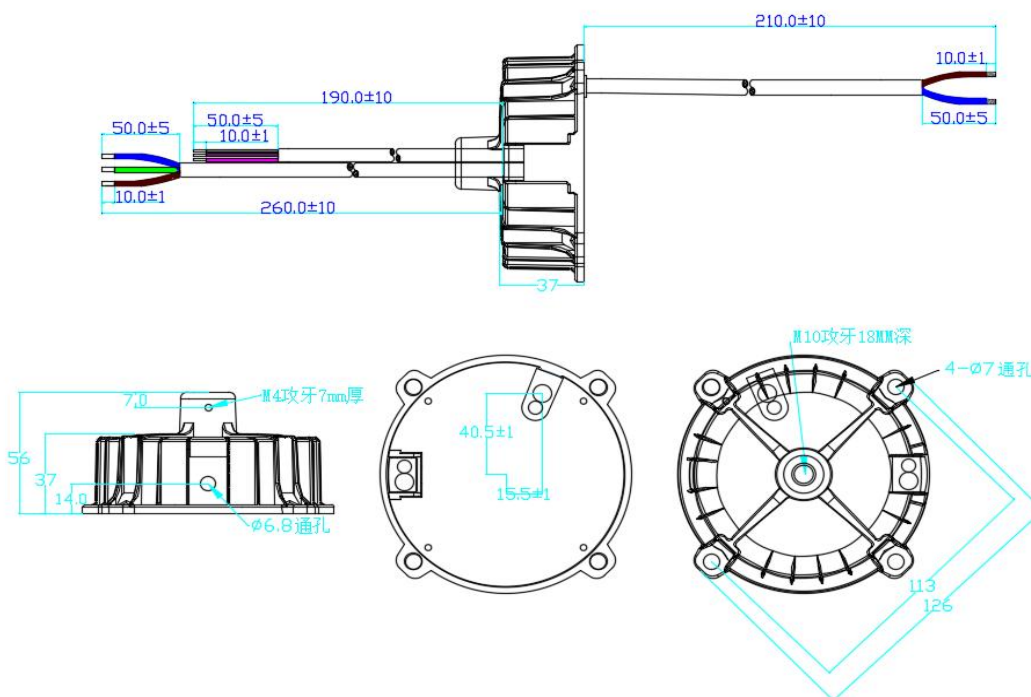


MECHANICAL SPECIFICATION & PACKING :

Bare Plate Dimension	103.2*103*31(L*W*H)	200W 240W
	85*87.5*26mm(L*W*H)	120W 150W
Final Dimension	127*127*60.2mm(L*W*H)	200W 240W
	126*126*56mm(L*W*H)	120W 150W
Product Weight	920g	200W 240W
	620g	120W 150W
Case No.:200W 240W Unit:mm		



Case No.: 120W 150W Unit:mm



Nameplate

LVS-240W-180C

Dimension: 85*32mm Style: sticker

LVS-200W-180C

SUNCOM LVS-240W-180C LED DRIVER

SUNCOM LVS-200W-180C LED DRIVER

INPUT	Vin:100-240V~3A 50/60Hz	Vout:100-180V = 1200-2200mA	OUTPUT
ACL-(BN)BK	Vin:277V~1A 50/60Hz	Maximum voltage: Uout 220V	(BN)RD Vo + ○
ACN-(BU)WT	η:≥94% PF:≥0.95	Rated Power:240W	(BU)BK Vo - ○
FG ⊕ GN			PL DIM + ○
(GN/YL)			BK/WT 12V-/DIM - ○

INPUT	Vin:100-240V~2.5A 50/60Hz	Vout:100-180V = 1000-1800mA	OUTPUT
ACL-(BN)BK	Vin:277V~0.8A 50/60Hz	Maximum voltage: Uout 220V	(BN)RD Vo + ○
ACN-(BU)WT	η:≥94% PF:≥0.95	Rated Power:200W	(BU)BK Vo - ○
FG ⊕ GN			PL DIM + ○
(GN/YL)			BK/WT 12V-/DIM - ○

*277 for North American only.
Suitable for dry damp and wet locations
For Connections Use Wire Rated for at Least 90°C (194°F)
GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD
No. 1-02, Yongyi Road Three, Yongxing Industry Zone, Henglan Town, Zhongshan City, 528478 Guangdong, China

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	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	LVS-***W-180X Series	REV	V1.0

LVS-150W-180C	LVS-120W-180C
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 LVS-150W-180C LED DRIVER				
INPUT	Vin:100-240V~1.8A 50/60Hz Vin:277V~0.6A 50/60Hz η:≥94% PF:≥0.95 .tc *277 for North American only. Suitable for dry Damp and wet locations For Connections Use Wire Rated for at Least90°C (194°F) GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD No. 1-02, Yongyi Road Three, Yongxing Industry Zone, Henglan Town, Zhongshan City, 528478 Guangdong, China	Vout:100-180V= 750-1400mA Maximum voltage: Uout 220V= Rated Power:150W	OUTPUT	(BN)RD Vo + ○ (BU)BK Vo - ○ PL DIM+ ○ BK/WT 12V-/DIM- ○ PK 12V+ ○
ACL-(BN)BK ACN-(BU)WT FG ⊕ GN (GN/YL)	tc:90°C ta:50°C@Vin100-200V~ ta:60°C@Vin200-277V~			
MADE IN CHINA www.gdsuncom.com				
     				

 LVS-120W-180C LED DRIVER				
INPUT	Vin:100-240V~1.5A 50/60Hz Vin:277V~0.5A 50/60Hz η:≥93% PF:≥0.95 .tc *277 for North American only. Suitable for dry Damp and wet locations For Connections Use Wire Rated for at Least90°C (194°F) GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD No. 1-02, Yongyi Road Three, Yongxing Industry Zone, Henglan Town, Zhongshan City, 528478 Guangdong, China	Vout:100-180V= 500-950mA Maximum voltage: Uout 220V= Rated Power:120W	OUTPUT	(BN)RD Vo + ○ (BU)BK Vo - ○ PL DIM+ ○ BK/WT 12V-/DIM- ○ PK 12V+ ○
ACL-(BN)BK ACN-(BU)WT FG ⊕ GN (GN/YL)	tc:90°C ta:50°C@Vin100-200V~ ta:60°C@Vin200-277V~			
MADE IN CHINA www.gdsuncom.com				
     				