

SUNCOM	Product Type	LED INTEGRATED SPECIAL DRIVER		
	Product Series	LVS-***W-260X SERIES	REV	V1.0

SPECIFICATION FOR APPROVAL

CUSTOMER:	
MODEL NO.:	LVS-***W-260X
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.

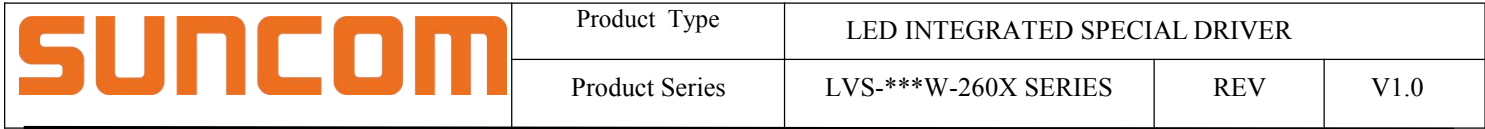
SUNCOM Confirmation

TESTED BY	CHECKED BY	APPROVED BY

Guangdong Suncom Power Technology Co., Ltd

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TEL:0760-22326609 28168136 FAX:0760-87600929



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■ CHANGE HISTORY:

[illegible]

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◆ 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.

■ MODEL LIST:

Model	Rated Power	Input Voltage	Output Voltage	Output Current	THD. (Typ)	PF. (Typ)
LVS-240W-260C	240W	100-277Vac	180-260V	750mA-1200mA	6.1	0.985
LVS-200W-260C	200W	100-277Vac	180-260V	600mA-1000mA	6.0	0.980
LVS-150W-260C	150W	100-277Vac	180-260V	450mA-750mA	6.5	0.979
LVS-120W-260C	120W	100-277Vac	180-260V	350mA-600mA	7.1	0.978

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			√

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ELECTRICAL SPECIFICATION :

◆ Input performance:

Parameter	Min.	Typ.	Max.	Notes
Voltage Range	90Vac	100-277Vac	305Vac	
Frequency Range	47Hz	-	63Hz	
AC Current	-	-	3.0A	LVS-240W-260C
	-	-	2.5A	LVS-200W-260C
	-	-	1.8A	LVS-150W-260C
	-	-	1.5A	LVS-120W-260C
Inrush Current	-	-	60A	At 230Vac input, 25°C cold start
PF. At 230Vac input, full load	0.95	0.985	-	LVS-240W-260C
	0.95	0.980	-	LVS-200W-260C
	0.95	0.979	-	LVS-150W-260C
	0.95	0.978	-	LVS-120W-260C
THD. At 230Vac input, full load	-	6.1%	≤ 10%	LVS-240W-260C
	-	6.0%	≤ 10%	LVS-200W-260C
	-	6.5%	≤ 10%	LVS-150W-260C
	-	7.1%	≤ 10%	LVS-120W-260C
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	180VDC	-	260VDC	-
Current Range Regulation	750mA	-	1200mA	LVS-240W-260C
	600mA	-	1000mA	LVS-200W-260C
	450mA	-	750mA	LVS-150W-260C
	350mA	-	600mA	LVS-120W-260C
Rated Power	-	-	240W	LVS-240W-260C
	-	-	200W	LVS-200W-260C
	-	-	150W	LVS-150W-260C
	-	-	120W	LVS-120W-260C
Over Voltage	285V	-	300V	-
Efficiency At 230Vac input, full load	≥ 95%	95.5%	-	LVS-240W-260C
	≥ 95%	95.2%	-	LVS-200W-260C
	≥ 94%	94.5%	-	LVS-150W-260C
	≥ 94%	94.5%	-	LVS-120W-260C

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Current Tolerance	-5%	-	+5%	-	
Line Regulation	-3%	-	+3%	-	
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 regulations 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

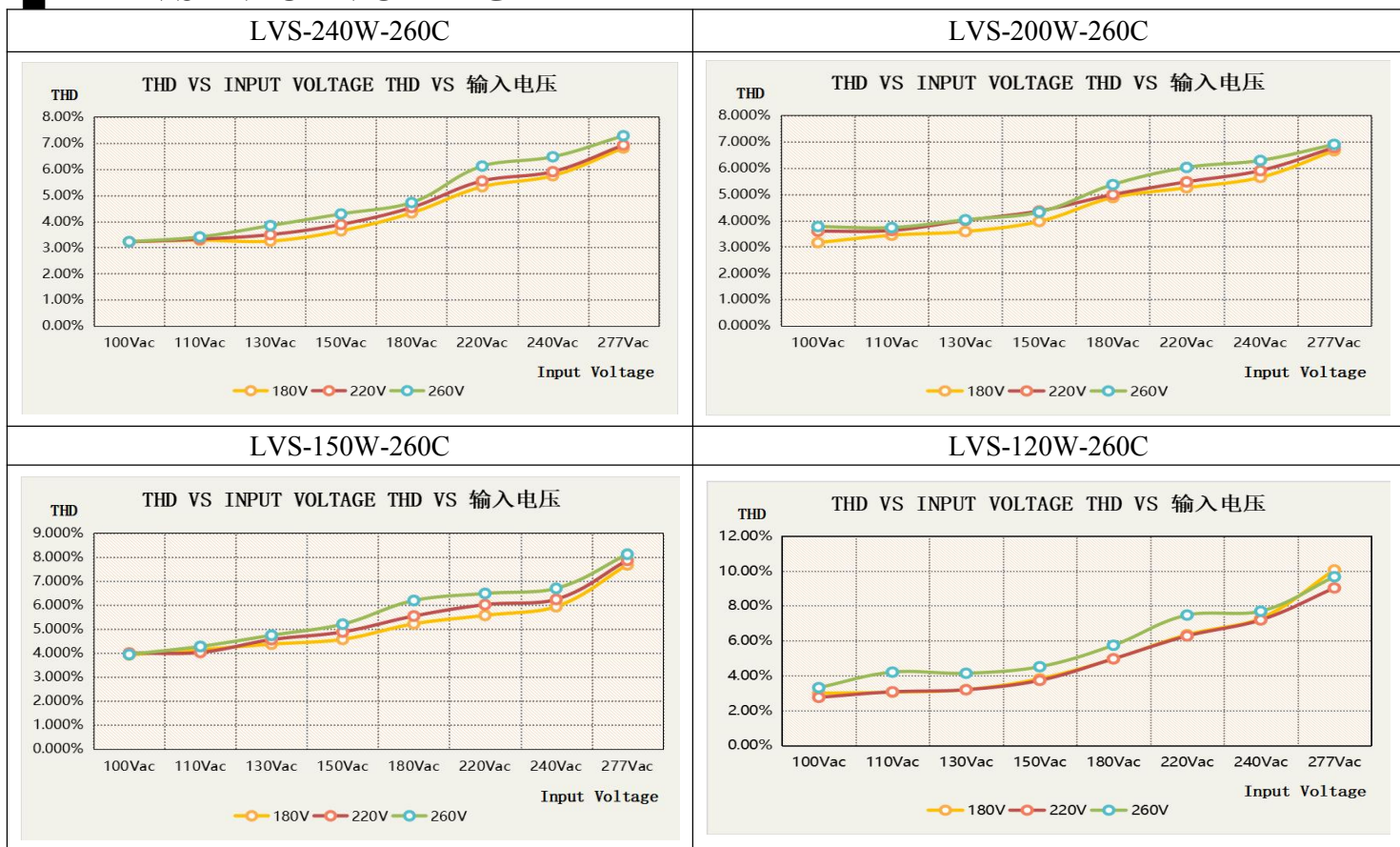
NOTE:

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

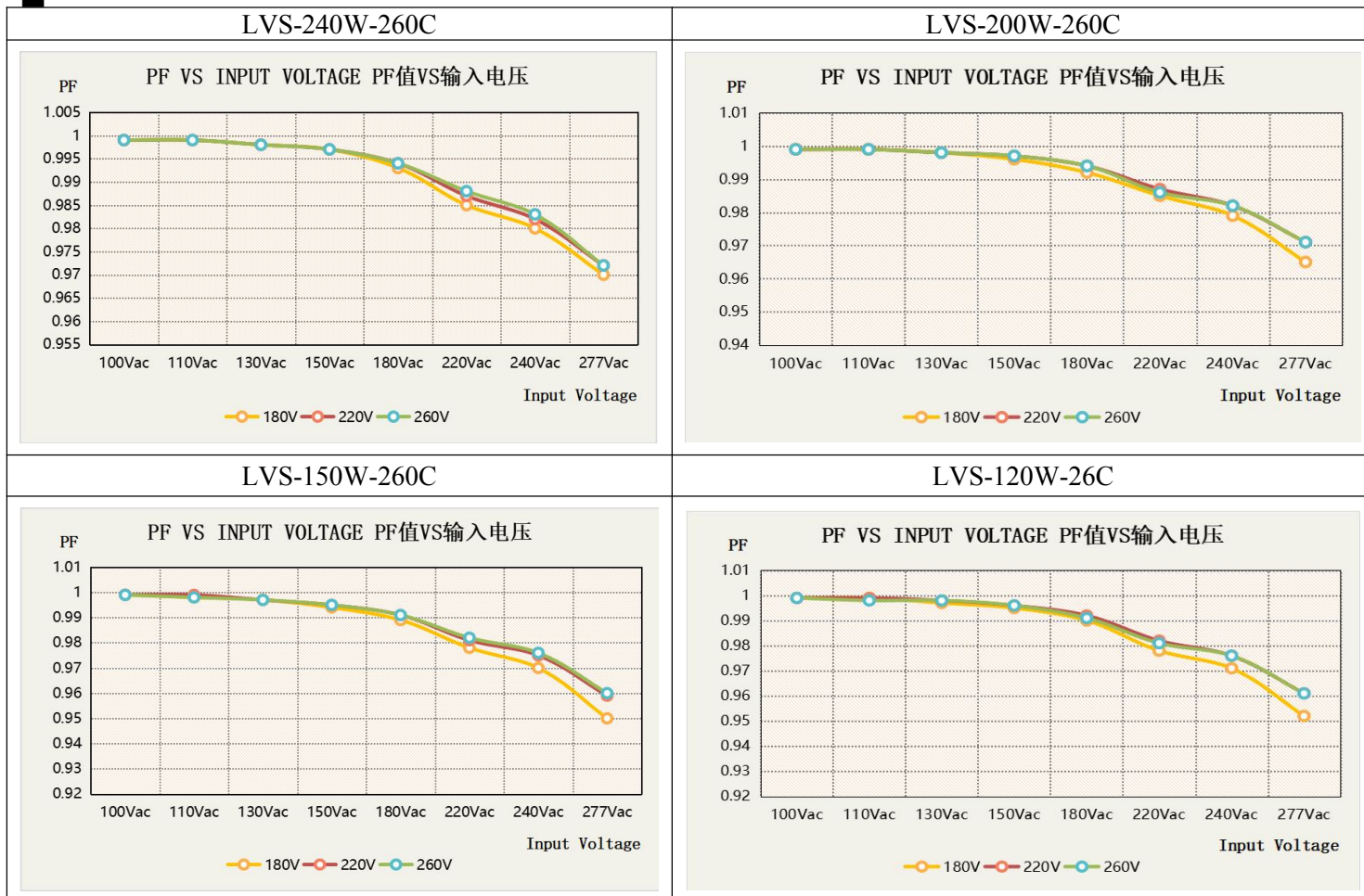
2) Tolerance:includes set up tolerance,lineregulation and load regulation.

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THD VS INPUT VOLTAGE



PF VS INPUT VOLTAGE

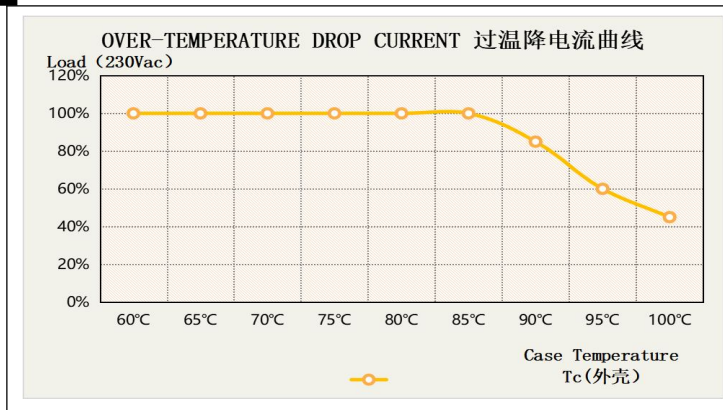


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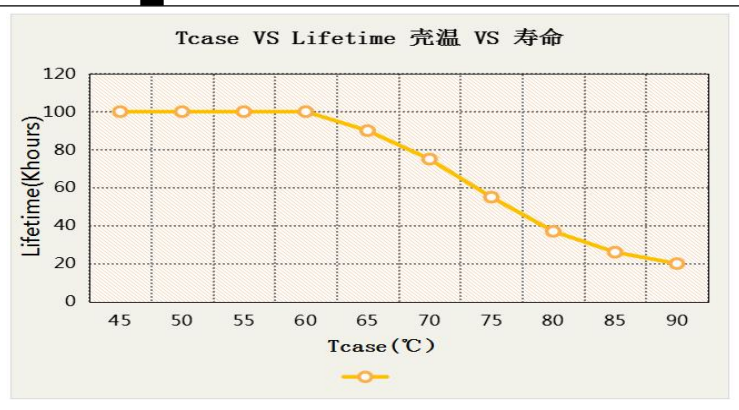
EFFICIENCY VS INPUT VOLTAGE



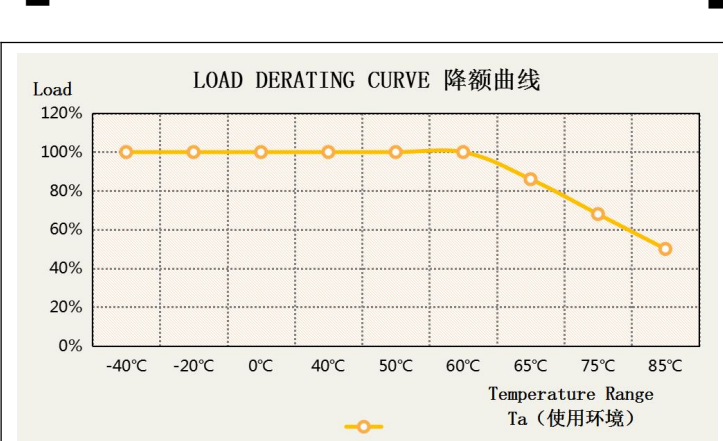
OVER-TEMPERATURE DROP CURRENT



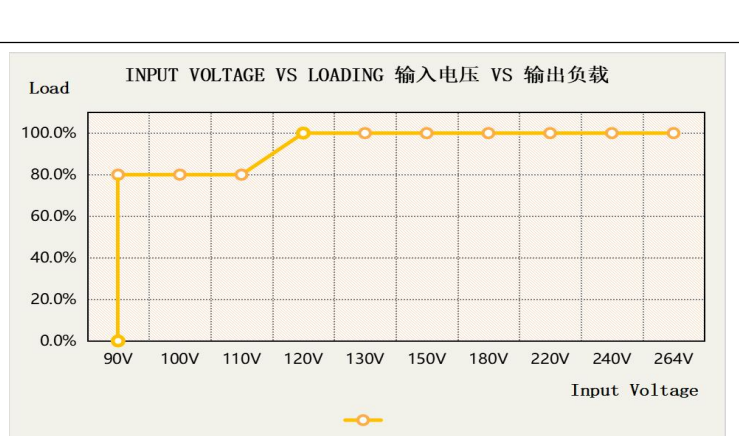
TCASE VS LIFETIME



LOAD DERATING CURVE



INPUT VOLTAGE VS LOADING



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THE DIMMING CURVE

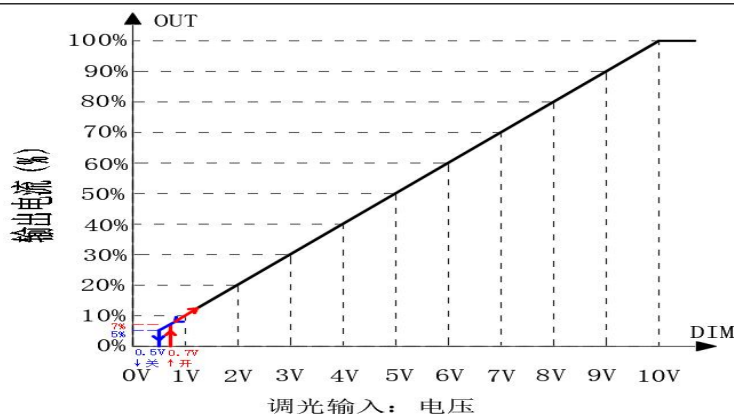
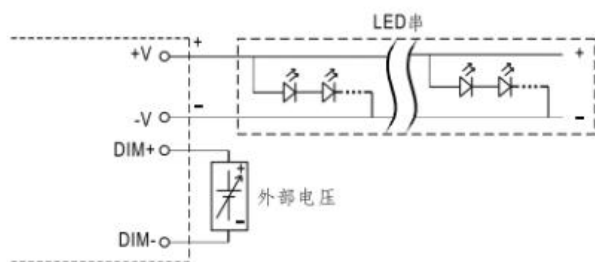
Three-in-one dimming function:

- Connect a resistor or 0-10V DC voltage or PWM signal between DIM+ (purple wire) and DIM- (gray wire) to adjust the value of the output constant current
- Output current of dimming port: 100uA (typical value)
- 12V auxiliary group power output, the maximum output current is 250mA (optional)

Three-in-one dimming curve

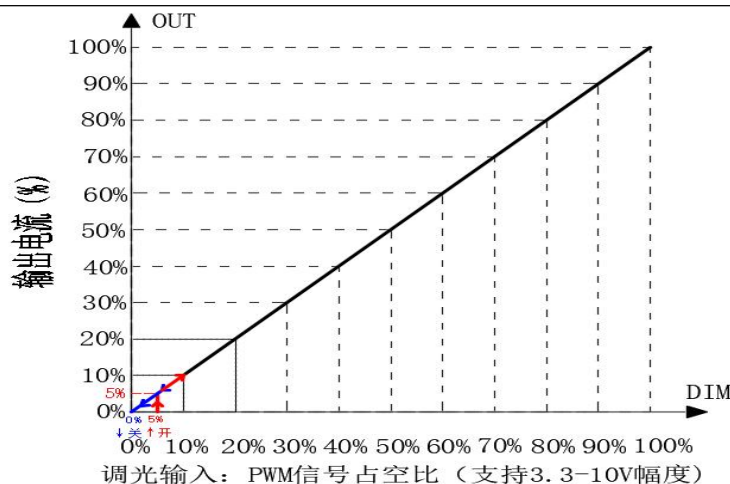
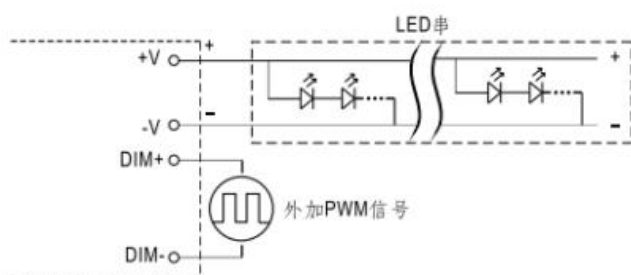
0-10V Dimming

With an external 0-10VDC voltage



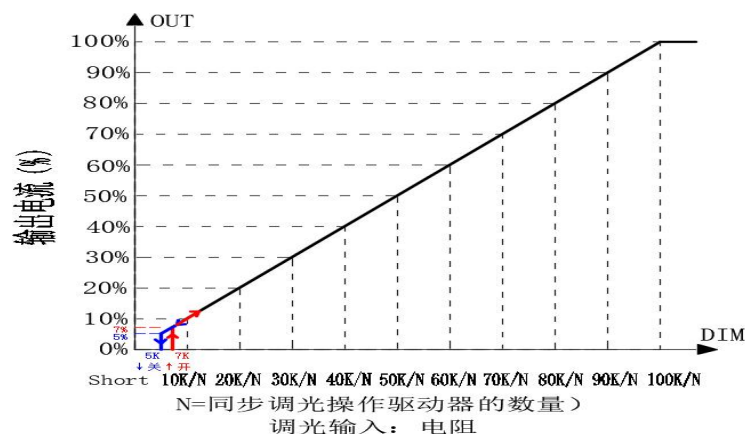
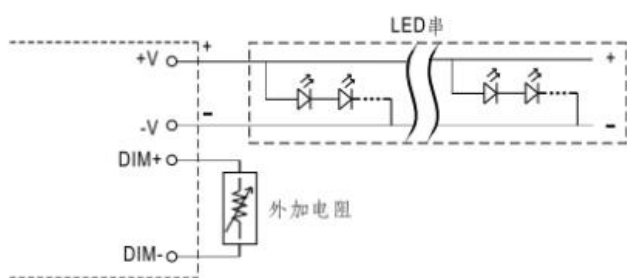
PWM Dimming (PWM frequency 1KHZ)

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



Resistor dimming (100K)

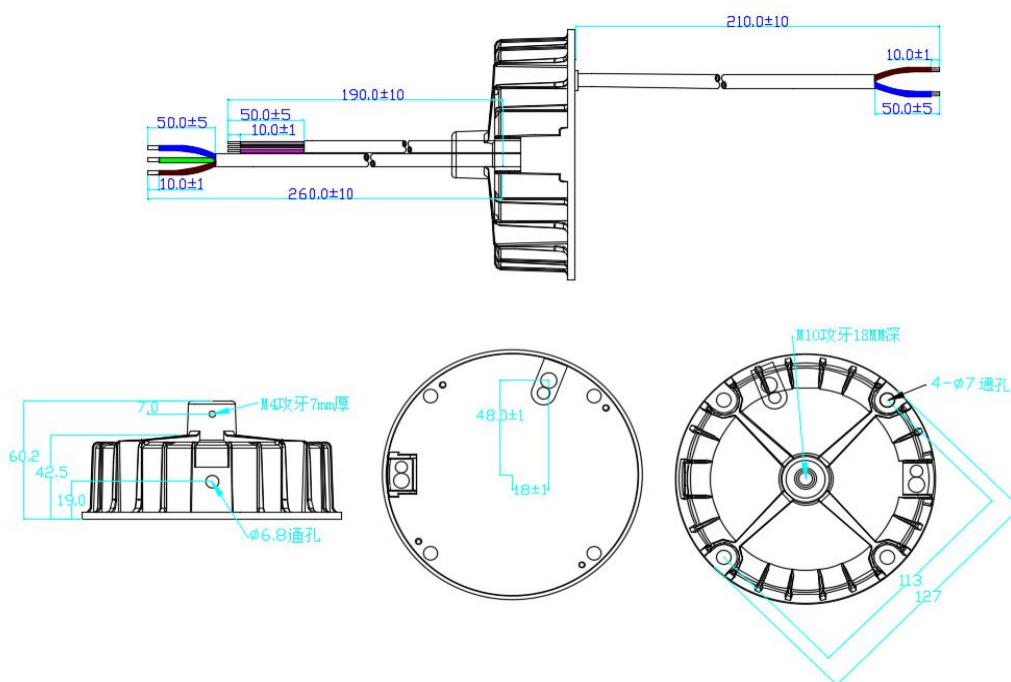
With external resistance (0-100K)



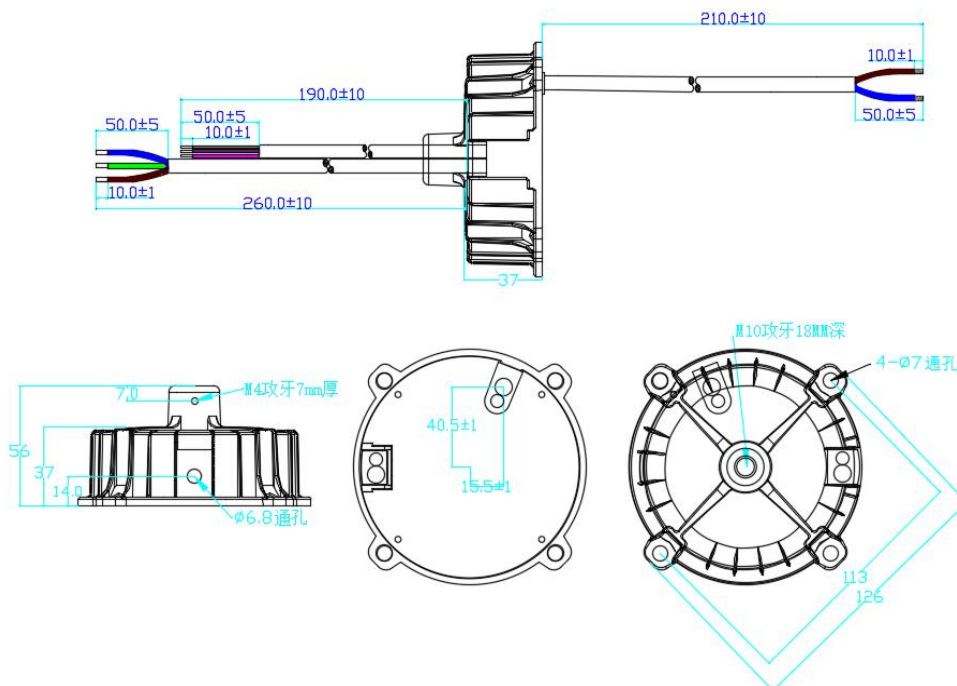
MECHANICAL SPECIFICATION & PACKING :

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



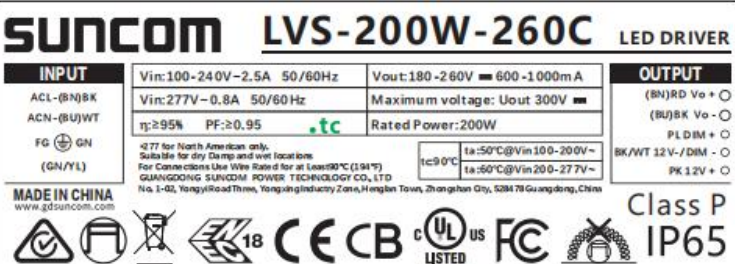
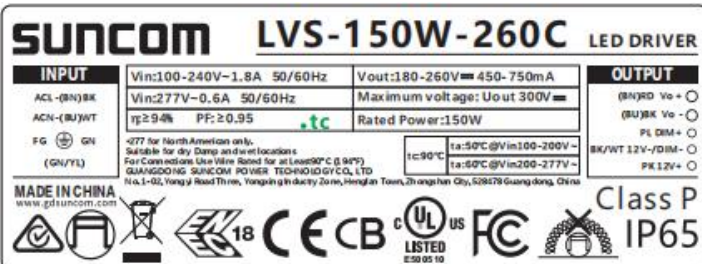
Case No.: 120W 150W Unit:mm



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Nameplate

Dimension: 85*32mm Style: sticker

LVS-240W-260C 	LVS-200W-260C 
LVS-150W-260C 	LVS-120W-260C 