

SUNCOM® 新创电源	产品类型	LED 驱动电源 LED INTEGRATED SPECIAL DRIVER		
	产品系列	LVS-***W-180X 系列	REV	V1.0

广东新创电源科技有限公司

客户承认书

SPECIFICATION FOR APPROVAL

CUSTOMER/客户名:	
MODEL NO. /产品型号:	LVS-***W-180X
Rev. /版本号	V1.0
SAMPLE DATE/送样日期:	

客户确认栏

TESTED BY 检查	CHECKED BY 审核	APPROVED BY 批准
客户备注		

Please return to us one copy of “SPECIFICATION FOR APPROVAL” with you approved signature. /客户确认签章后请回传一份承认书给我公司.

新创确认栏

TESTED BY 检查	CHECKED BY 审核	APPROVED BY 批准

Guangdong Suncom Power Technology Co., Ltd		
广东新创电源科技有限公司		
No.1 of Yongyi 3rd Road Henglan Town Zhongshan Guangdong China Post code528478		
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■ CHANGE HISTORY 变更履历

日期 DATA	变更原因 CAUSES OF CHANGE	版本 REV.	批准 APPROVED
2022. 03. 15	初始发行版本。	V1.0	

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◆ Features 产品特性:

- Input Rated voltage : 100-277Vac 50Hz/60Hz
输入额定电压范围:100-277Vac 50Hz/60Hz
- Non-isolated, Constant current mode output
非隔离, 恒流模式输出
- Surge Protection: L-N :6KV; L/N- E:10KV
防雷保护: 火线对零线6KV, 火线/零线对地10KV
- Input undervoltage protection
输入欠压保护
- 3 in 1 Dimming(dim-to-off)
三合一调光 (调光可关断, 隔离设计)
- AUX Power:12V/0.25A
辅组源: 12V/0.25A
- Over temperature drop current
过温降电流
- Output current is adjustable
输出电流可调
- THD<10%



◆ Applications 产品应用:

Application: High bay lighting and other lighting lamps

应用于: 工矿灯等照明灯具

◆ Description 产品描述:

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.

本产品为恒流驱动电源, 专为LED设计, 具有低谐波 (<10%)、高功率因数、输出电流可根据LED灯电压灵活调节。三合一调光功能 (可选)、12V辅助源 (可选)。内置防雷保护, 输出开路、短路保护, 极大的提高了产品的安全可靠性能。

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MODEL LIST 型号列表

Model 型号	Rated Power 额定输出功率	Input Voltage 输入电压	Output Voltage 输出电压范围	Output Current 输出电流	THD. (Typ)	PF. (Typ)
LVS-240W-180C	240W	100-277Vac	100-180V	1200mA-2200mA	5.5	0.980
LVS-200W-180C	200W	100-277Vac	100-180V	1000mA-1800mA	5.6	0.980
LVS-150W-180C	150W	100-277Vac	100-180V	750mA-1400mA	5.8	0.975
LVS-120W-180C	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; 如未特殊注明, 所有参数均在 230Vac 输入、额定负载、25°C 环境温度下测量

“X” Means Additional Function 后缀“X”功能可选机型表

“X”	ADJ Current (可调电流: 后缀A)	0-10V/PWM Dim/Resistor (三合一调光: 后缀B)	0-10V/PWM Dim/Resistor +AUX 12V (三合一调光+辅组源: 后缀C)
C			√

ELECTRICAL SPECIFICATION 电气规格

◆ 输入性能 Input performance:

Parameter 参数	Min. 最小值	Typ. 典型值	Max. 最大值	Notes. 备注
Voltage Range 电压范围	90Vac	100-277Vac	305Vac	
Frequency Range 频率范围	47Hz	—	63Hz	
AC Current 交流电流	—	—	3.0A	LVS-240W-180C
	—	—	2.5A	LVS-200W-180C
	—	—	1.8A	LVS-150W-180C
	—	—	1.5A	LVS-120W-180C
Inrush Current 浪涌电流	—	—	60A	At 230Vac input, 25°C cold start 环温 25°C, 230Vac 冷机启动
PF. 功率因数 At 230Vac input, full load 满载, 输入 230Vac 下测量	0.95	0.980	—	LVS-240W-180C
	0.95	0.980	—	LVS-200W-180C
	0.95	0.975	—	LVS-150W-180C
	0.95	0.975	—	LVS-120W-180C
THD. 总谐波失真 At 230Vac input, full load 满载, 输入 230Vac 下测量	—	5.5%	≤10%	LVS-240W-180C
	—	5.6%	≤10%	LVS-200W-180C
	—	5.8%	≤10%	LVS-150W-180C
	—	6%	≤10%	LVS-120W-180C

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Under Voltage Protection 欠压保护	70Vac	80Vac	85Vac	Turn off the output voltage and resume work after the AC voltage is normal 关断输出电压，交流电压正常后恢复工作
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◆ 输出性能：Output performance

Parameter 参数	Min. 最小值	Typ. 典型值	Max. 最大值	Notes. 备注
Voltage Range 电压范围	100VDC	—	180VDC	—
Current range Regulation 电流调节范围	1200mA	—	2200mA	LVS-240W-180C
	1000mA	—	1800mA	LVS-200W-180C
	750mA	—	1400mA	LVS-150W-180C
	500mA	—	950mA	LVS-120W-180C
Rated Power 额定功率	—	—	240W	LVS-240W-180C
	—	—	200W	LVS-200W-180C
	—	—	150W	LVS-150W-180C
	—	—	120W	LVS-120W-180C
Over Voltage 过载电压	190V	—	220V	—
Efficiency 效率 At 230Vac input, full load 满载，输入230Vac下测量	≥94%	94.5%	—	LVS-240W-180C
	≥94%	94.5%	—	LVS-200W-180C
	≥94%	94.3%	—	LVS-150W-180C
	≥93%	93.5%	—	LVS-120W-180C
Current Tolerance 电流精度	-5%	—	+5%	—
Line Regulation 线性调整率	-3%	—	+3%	—
Load Regulation 负载调整率	-3%	—	+3%	—
Current Ripple 纹波电流	—	±5%	<±10%	—
Turn-on Delay Time 启动时间	—	350mS	<0.5s	Measured at full load and 230Vac input
Short Circuit Protection n短路保护	—	—	<2W	Hiccup mode, recovers automatically after fault condition is removed 打嗝模式，故障排除后自动恢复

■ 环境：Environment

Parameter 参数	Min. 最小值	Typ. 典型值	Max. 最大值	Notes. 备注
Working TEMP 工作温度	-40℃	+25℃	+65℃	—
Storage TEMP 储存温度	-40℃	+25℃	+85℃	—
Working Humidity 工作湿度	20% RH	—	90% RH	—
Storage Humidity 储存湿度	10% RH	—	90% RH	—
Maximum shell TEMP 最大壳温	—	—	+90℃	—

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■ 安规和电磁兼容:

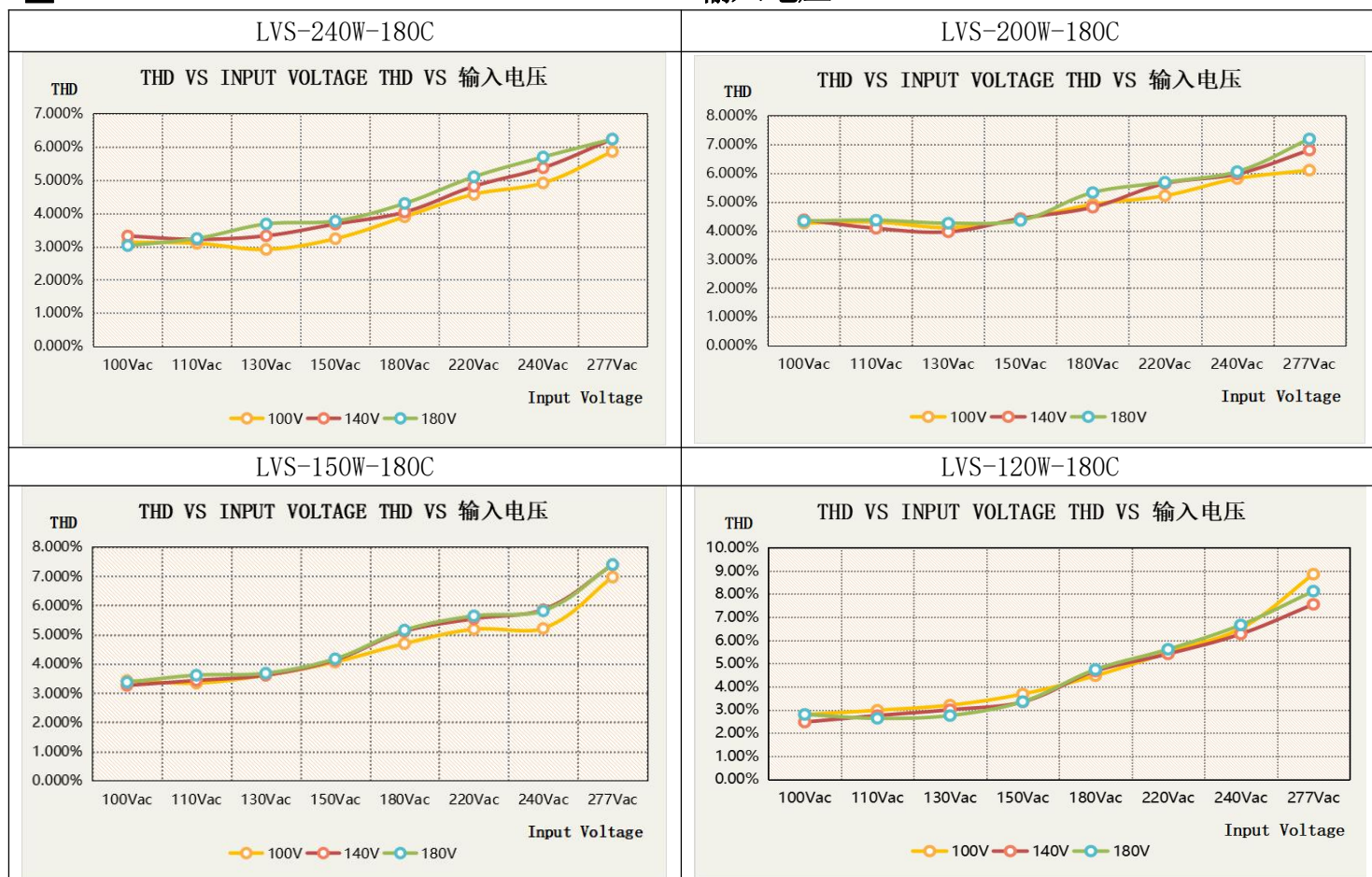
Withstand voltage 耐压	I/P - FG:1.5KVAC, I/P-调光: 3.75KVAC。
isolation resistance 绝缘阻抗	$\geq 10M\Omega$ at I/P - FG 500VDC Test
leakage current 漏电流	$< 0.75mA/277Vac$
Earthing resistance 接地电阻	$< 0.1\Omega$ / 25A 1 min
Surge 浪涌	差模 L-N +/- 6KV (2 ohm), 共模 L, N-地 +/- 10KV (12 ohm) 差模残压最大800V; 共模残压最大2.5KV
conducted electromagnetic interference 传导	$\geq 3dB$
Radiated electromagnetic interference 辐射	$\geq 3dB$

NOTE:

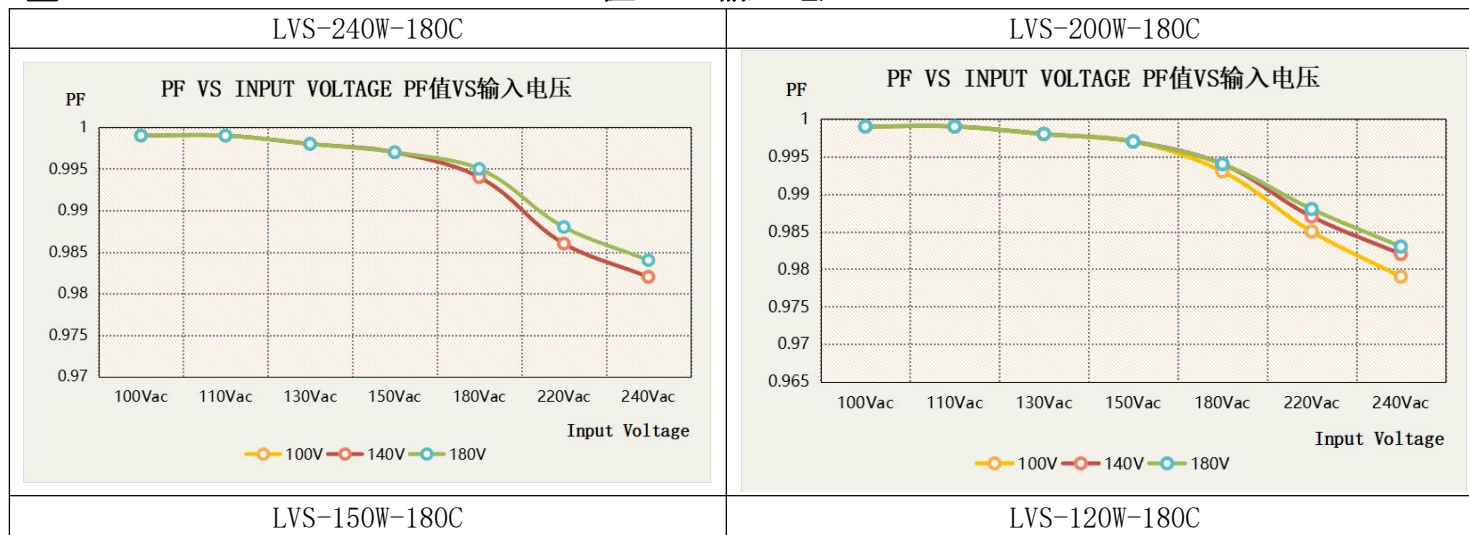
- 1) All parameters NOT specially mentioned are measured at 230Vac (50Hz) input, rated load and 25°C of ambient temperature.
如未特别说明, 所有规格参数均在 230Vac (50Hz) 输入, 额定负载, 环境温度 25°C 的条件下进行测量
- 2) Tolerance : includes set up tolerance, line regulation and load regulation.

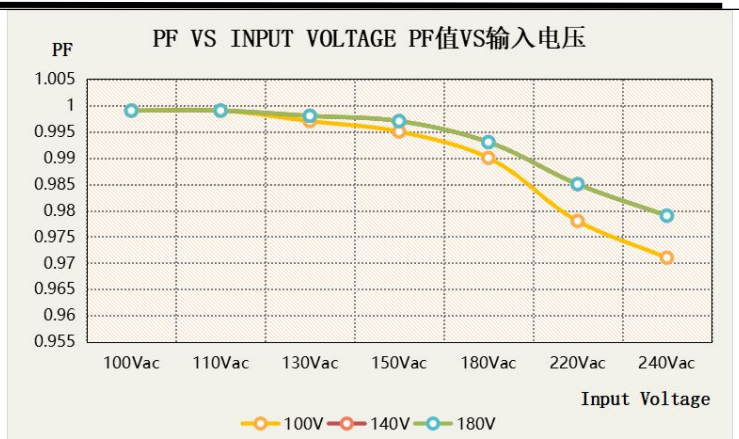
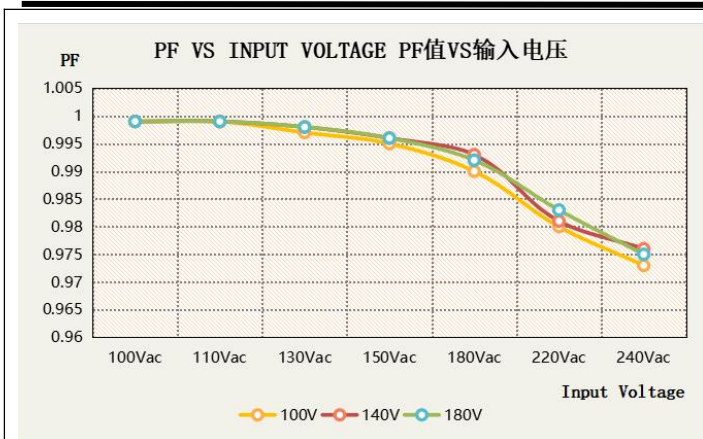
误差: 包含设定误差、线性调整率和负载调整率。

THD VS INPUT VOLTAGE THD VS 输入电压



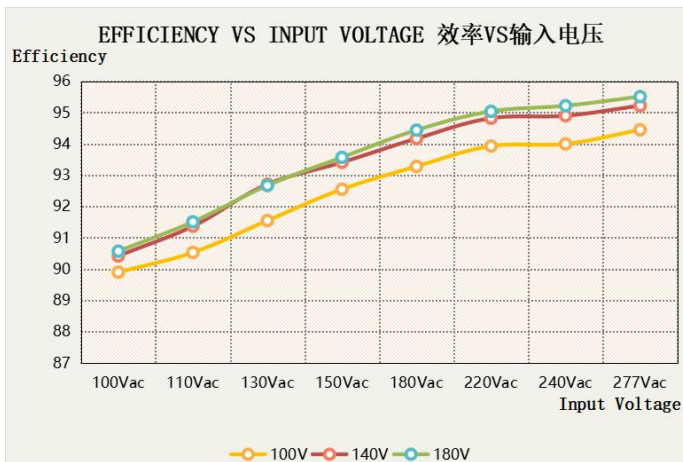
PF VS INPUT VOLTAGE PF 值 VS 输入电压



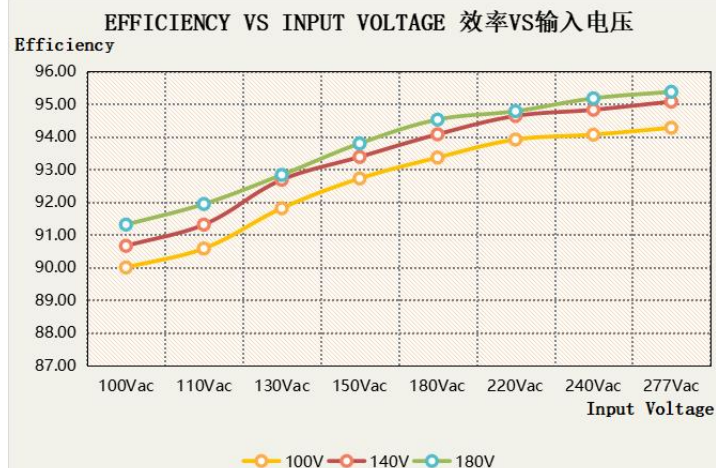


EFFICIENCY VS INPUT VOLTAGE 效率 VS 输入电压

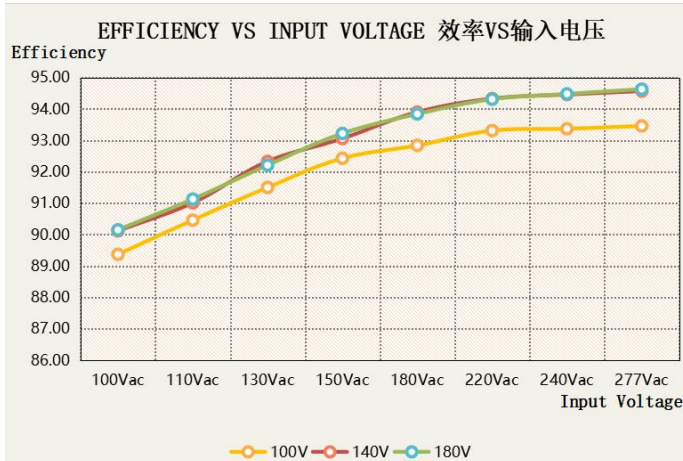
LVS-240W-180C



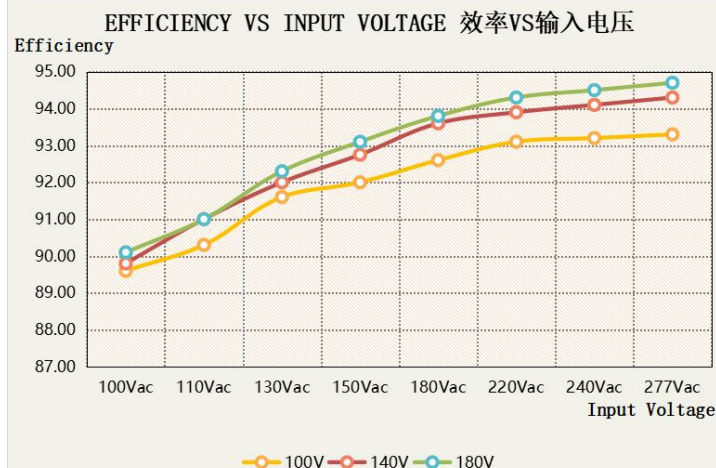
LVS-200W-1810C



LVS-150W-180C

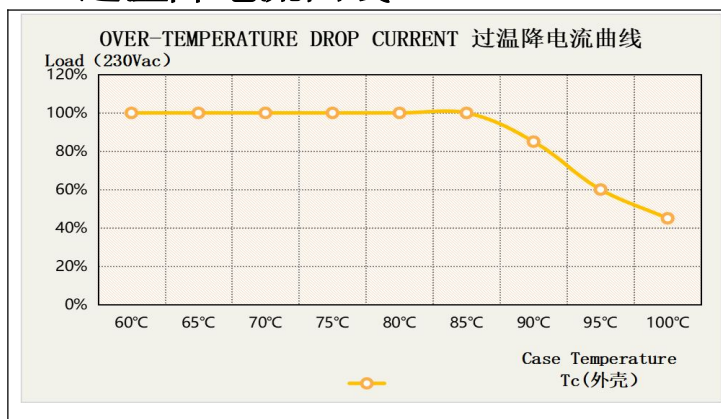


LVS-120W-180C



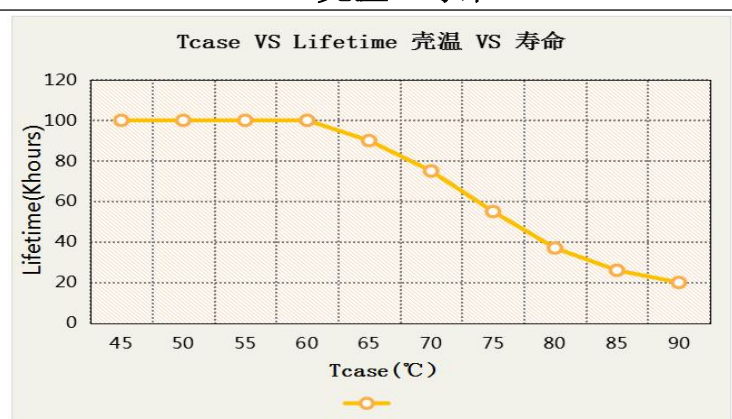
OVER-TEMPERATURE DROP CURRENT

过温降电流曲线



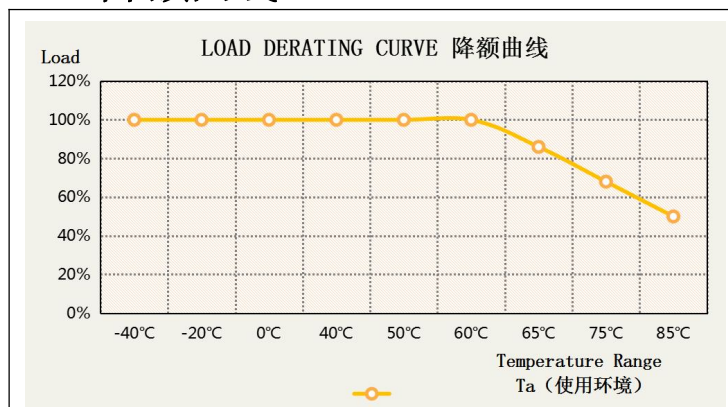
TCASE VS LIFETIME

壳温VS寿命



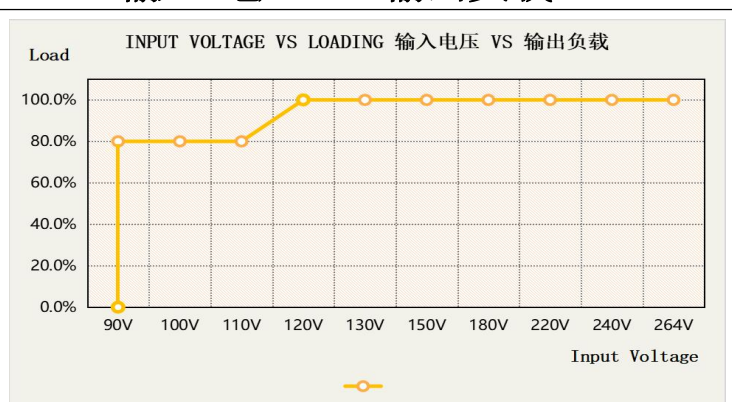
LOAD DERATING CURVE

降额曲线



INPUT VOLTAGE VS LOADING

输入电压 VS 输出负载



THE DIMMING CURVE 调光曲线

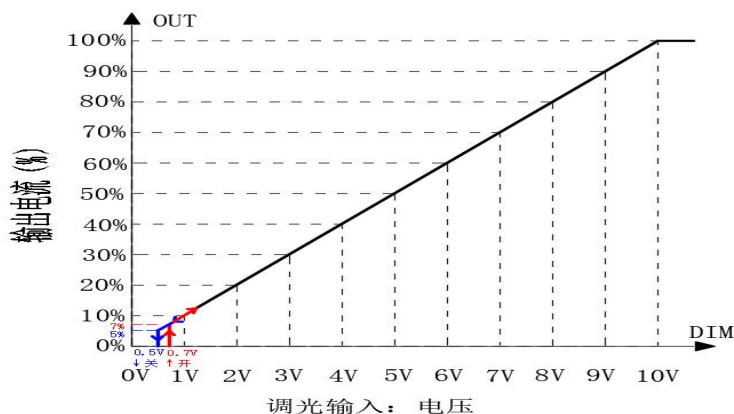
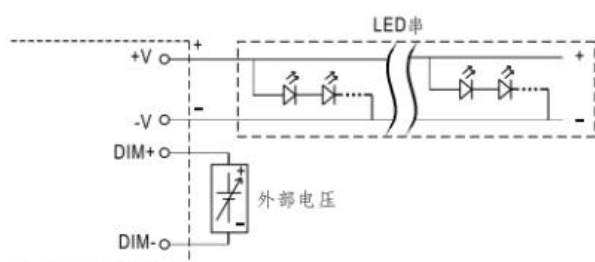
三合一调光功能:

- 在DIM+ (紫色线) 和DIM- (灰色线) 间连接一个电阻或0-10V直流电压或PWM信号, 即可调整输出恒电流的数值
- 调光端口输出电流: 100uA (典型值)
- 12V辅组电源输出, 输出最大电流250mA (可选)

三合一调光曲线

0-10V调光

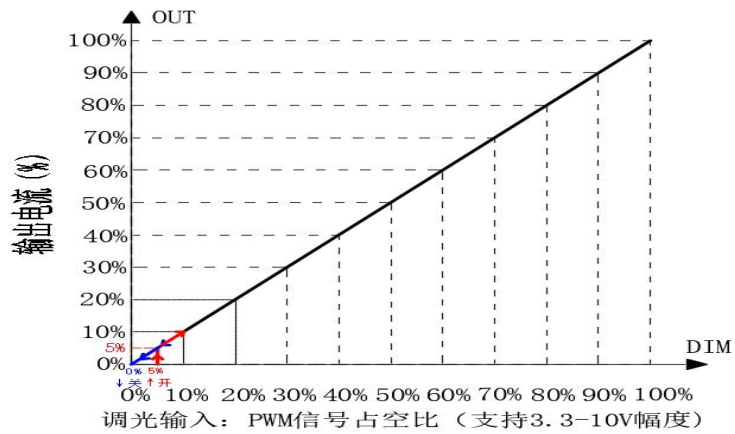
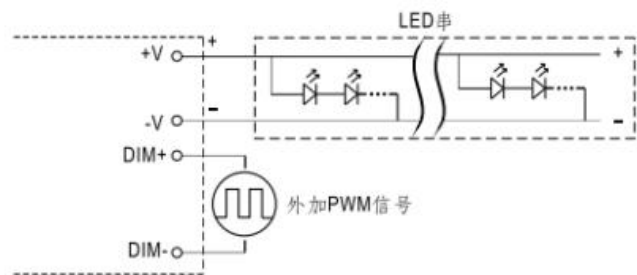
用外加0-10VDC电压



PWM调光 (PWM频率 1KHZ)

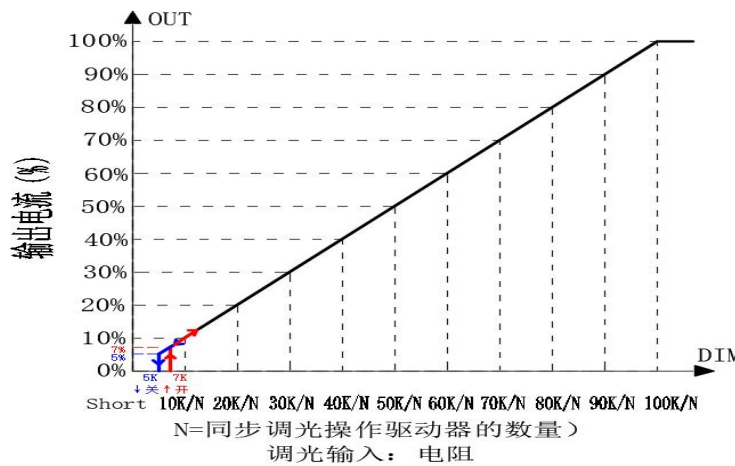
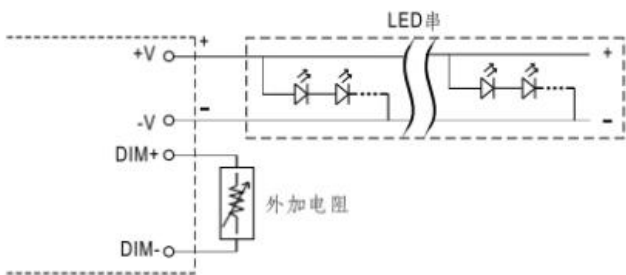
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用外加 PWM信号（频率0.2K-5K）



电阻调光（100K）

用外加电阻（0-100K）



MECHANICAL

Bare plate dimension 裸板尺寸

103. 2*103*31 (L*W*H)

200W 240Wfinal dimension 成品尺寸

127*127*60.2mm (L*W*H)

200W 240WProduct Weight 产品重量

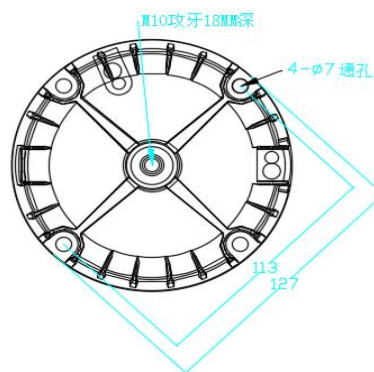
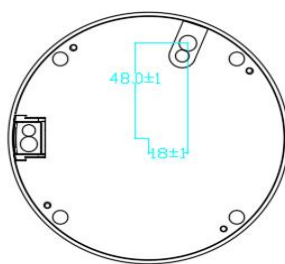
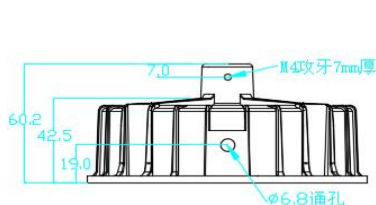
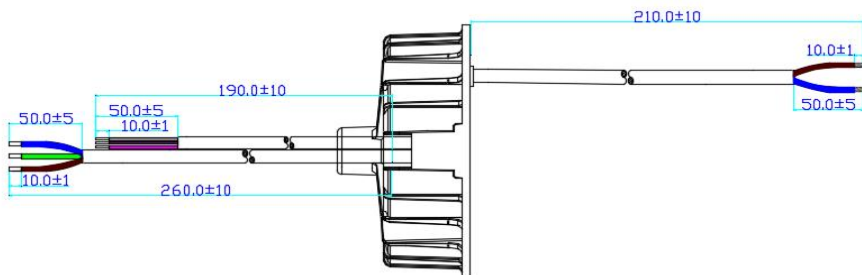
920g

200W 240W

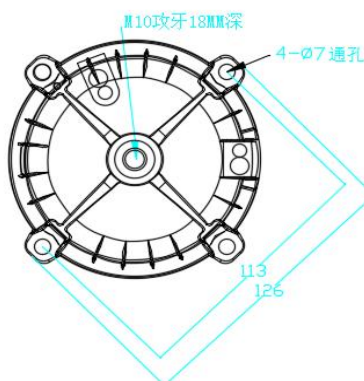
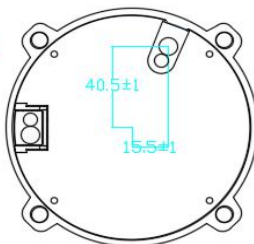
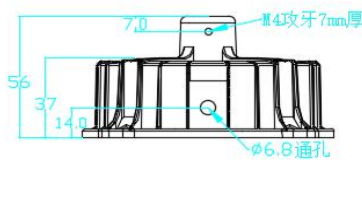
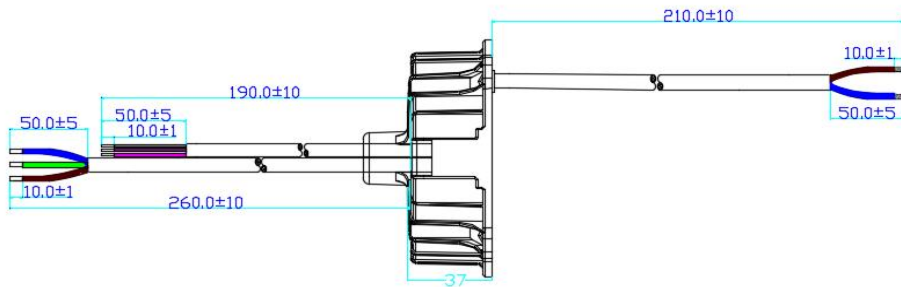
620g

120W	150W
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Case No. 机壳型号: 200W 240W Unit 单位:mm



Case No. 机壳型号: 120W 150W Unit 单位:mm



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■ Nameplate 铭牌

尺寸: 85*32mm 样式: 贴纸

LVS-240W-180C		LVS-200W-180C	
SUNCOM® LVS-240W-180C LED DRIVER INPUT ACL-(BN)BK ACN-(BU)WH FG  GN (GN/YL) MADE IN CHINA www.gdsuncom.com		SUNCOM® LVS-200W-180C LED DRIVER INPUT ACL-(BN)BK ACN-(BU)WH FG  GN (GN/YL) MADE IN CHINA www.gdsuncom.com	
OUTPUT (BN) RD Vo+  (BU) BK Vo-  PL DIM+  GY-12V/DIM-  PK 12V+ 		OUTPUT (BN) RD Vo+  (BU) BK Vo-  PL DIM+  GY-12V/DIM-  PK 12V+ 	
Vin:100-240V~3A 50/60Hz Vin:277V~1A 50/60Hz $\eta \geq 94\%$ PF: ≥ 0.95 •tc *277 for North American only. Suitable for dry damp and wet locations GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD Zhongshan City, Guangdong Province No.1 yongyi Third Road, Henglan Town, t _c :90°C t _a :50°C@Vin100-200V~ t _a :60°C@Vin200-277V~ Vout:100-180V=1200-2200mA Maximum voltage:Uout 220V= Rated Power:240W		Vin:100-240V~2.5A 50/60Hz Vin:277V~0.8A 50/60Hz $\eta \geq 94\%$ PF: ≥ 0.95 •tc *277 for North American only. Suitable for dry damp and wet locations GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD Zhongshan City, Guangdong Province No.1 yongyi Third Road, Henglan Town, t _c :90°C t _a :50°C@Vin100-200V~ t _a :60°C@Vin200-277V~ Vout:100-180V=1000-1800mA Maximum voltage:Uout 220V= Rated Power:200W	
IP65		IP65	
LVS-150W-180C		LVS-120W-180C	
SUNCOM® LVS-150W-180C LED DRIVER INPUT ACL-(BN)BK ACN-(BU)WH FG  GN (GN/YL) MADE IN CHINA www.gdsuncom.com		SUNCOM® LVS-120W-180C LED DRIVER INPUT ACL-(BN)BK ACN-(BU)WH FG  GN (GN/YL) MADE IN CHINA www.gdsuncom.com	
OUTPUT (BN) RD Vo+  (BU) BK Vo-  PL DIM+  GY-12V/DIM-  PK 12V+ 		OUTPUT (BN) RD Vo+  (BU) BK Vo-  PL DIM+  GY-12V/DIM-  PK 12V+ 	
Vin:100-240V~1.8A 50/60Hz Vin:277V~0.6A 50/60Hz $\eta \geq 94\%$ PF: ≥ 0.95 •tc *277 for North American only. Suitable for dry damp and wet locations GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD Zhongshan City, Guangdong Province No.1 yongyi Third Road, Henglan Town, t _c :90°C t _a :50°C@Vin100-200V~ t _a :60°C@Vin200-277V~ Vout:100-180V=750-1400mA Maximum voltage:Uout 220V= Rated Power:150W		Vin:100-240V~1.5A 50/60Hz Vin:277V~0.5A 50/60Hz $\eta \geq 93\%$ PF: ≥ 0.95 •tc *277 for North American only. Suitable for dry damp and wet locations GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD Zhongshan City, Guangdong Province No.1 yongyi Third Road, Henglan Town, t _c :90°C t _a :50°C@Vin100-200V~ t _a :60°C@Vin200-277V~ Vout:100-180V=500-950mA Maximum voltage:Uout 220V= Rated Power:120W	
IP65		IP65	