

SUNCOM® 新创电源	产品类型	LED 驱动电源 LED INTEGRATED SPECIAL DRIVER		
	产品系列	LVS-***W-260X 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-260X
Rev. /版本号	V1.1
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		
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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. 07	初始发行版本。	V1.0	
2023. 12. 31	增加LVS-80W-260A/B/C和LVS-100W-260A/B/C的型号	V1.1	

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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-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
LVS-100W-260C	100W	100-277Vac	180-260V	300mA-500mA	7.97	0.971
LVS-80W-260C	80W	100-277Vac	180-260V	230mA-400mA	8.72	0.96

NOTE: All parameters NOT special mentioned are measured at 230Vac input, rated load and 25℃ of ambient temperature ; 如未特殊注明，所有参数均在 230Vac 输入、额定负载、25℃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-260C
	—	—	2.5A	LVS-200W-260C
	—	—	1.8A	LVS-150W-260C
	—	—	1.5A	LVS-120W-260C
	—	—	1.3A	LVS-100W-260C
	—	—	1A	LVS-80W-260C
Inrush Current 浪涌电流	—	—	60A	At 230Vac input, 25℃ cold start 环温 25℃，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	0.985	—	LVS-240W-260C
	0.95	0.980	—	LVS-200W-260C
	0.95	0.979	—	LVS-150W-260C
	0.95	0.978	—	LVS-120W-260C

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THD. 总谐波失真 At 230Vac input, full load 满载, 输入 230Vac 下测量	0.95	0.971	—	LVS-100W-260C
	0.95	0.96	—	LVS-80W-260C
	—	6.1%	$\leq 10\%$	LVS-240W-260C
	—	6.0%	$\leq 10\%$	LVS-200W-260C
	—	6.5%	$\leq 10\%$	LVS-150W-260C
	—	7.1%	$\leq 10\%$	LVS-120W-260C
	—	7.97%	$\leq 10\%$	LVS-100W-260C
Under Voltage Protection 欠压保护	—	8.72%	$\leq 10\%$	LVS-80W-260C
	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

◆ 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	180VDC	—	260VDC	—
Current range Regulation 电流调节范围	750mA	—	1200mA	LVS-240W-260C
	600mA	—	1000mA	LVS-200W-260C
	450mA	—	750mA	LVS-150W-260C
	350mA	—	600mA	LVS-120W-260C
	300mA	—	500mA	LVS-100W-260C
	230mA	—	400mA	LVS-80W-260C
Rated Power 额定功率	—	—	240W	LVS-240W-260C
	—	—	200W	LVS-200W-260C
	—	—	150W	LVS-150W-260C
	—	—	120W	LVS-120W-260C
	—	—	100W	LVS-100W-260C
	—	—	80W	LVS-80W-260C
Over Voltage 过载电压	285V	—	300V	—
Efficiency 效率 At 230Vac input, full load 满载, 输入230Vac下测量	$\geq 95\%$	95.5%	—	LVS-240W-260C
	$\geq 95\%$	95.2%	—	LVS-200W-260C
	$\geq 94\%$	94.5%	—	LVS-150W-260C
	$\geq 94\%$	94.5%	—	LVS-120W-260C
	$\geq 94\%$	94.67%	—	LVS-100W-260C
	$\geq 94\%$	94.24%	—	LVS-80W-260C
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	—	$\pm 5\%$	$< \pm 10\%$	—
Turn-on Delay Time 启动时间	—	350mS	$< 0.5s$	Measured at full load and 230Vac input

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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℃	-

■ 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 Ω / 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	$\geq 3dB$

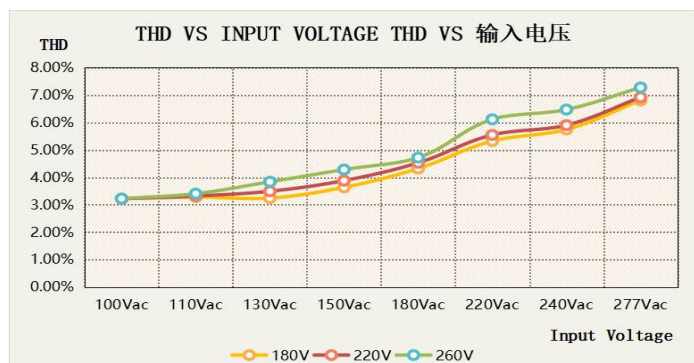
NOTE:

- 1) All parameters NOT specially mentioned are measured at 230Vac (50Hz) input, rated load and 25℃ 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℃ 的条件下进行测量
- 2) Tolerance : includes set up tolerance, line regulation and load regulation.

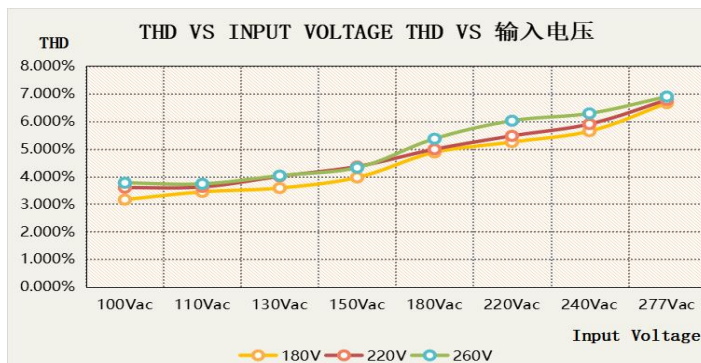
误差: 包含设定误差、线性调整率和负载调整率。

THD VS INPUT VOLTAGE THD VS 输入电压

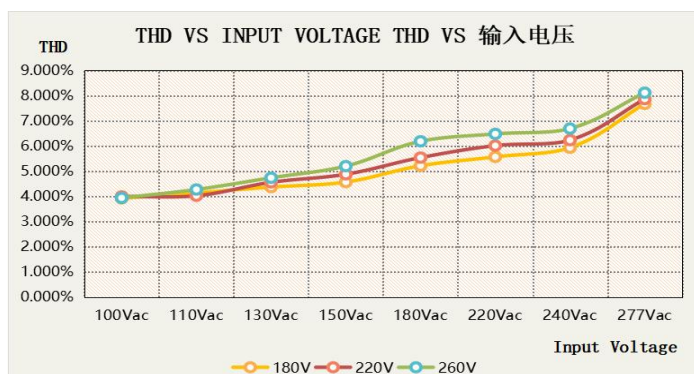
LVS-240W-260C



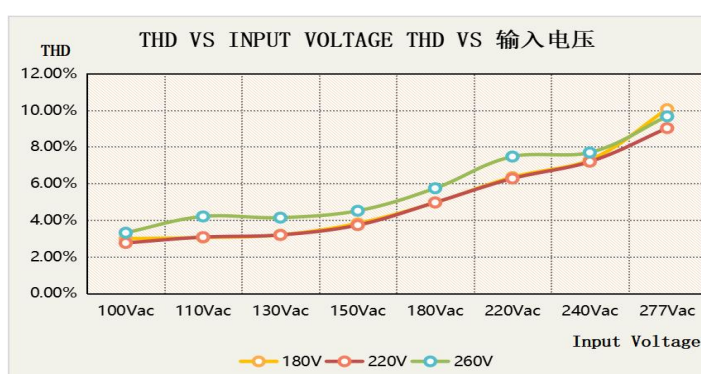
LVS-200W-260C



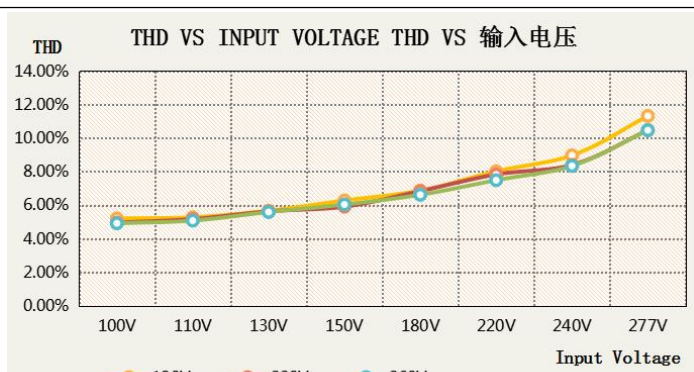
LVS-150W-260C



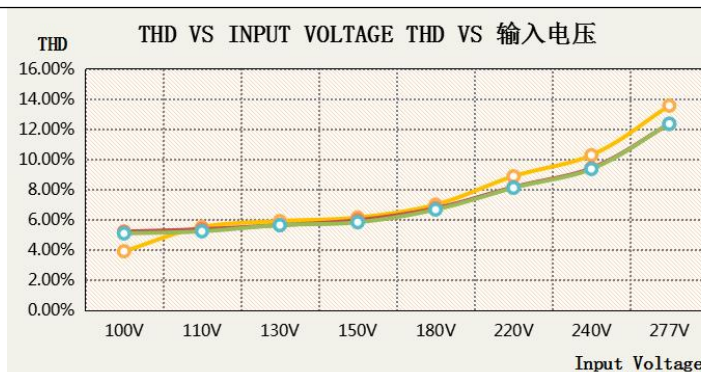
LVS-120W-260C



LVS-100W-260C

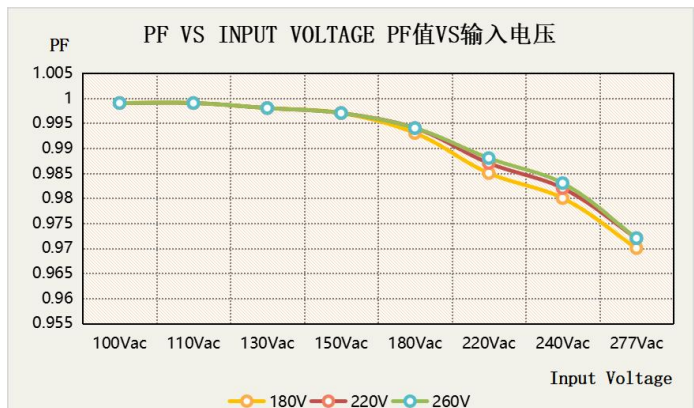


LVS-80W-260C

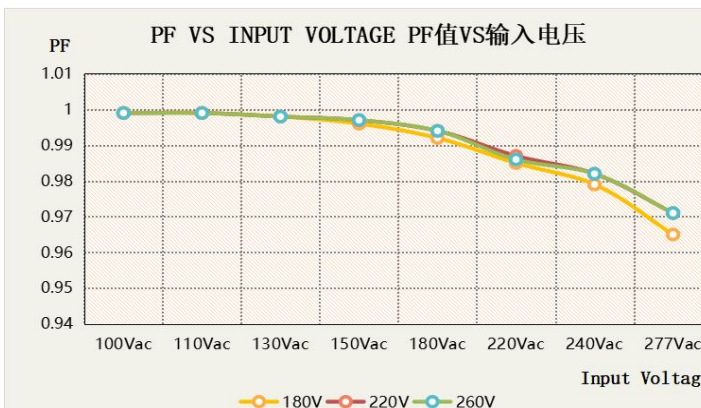


PF VS INPUT VOLTAGE PF 值 VS 输入电压

LVS-240W-260C

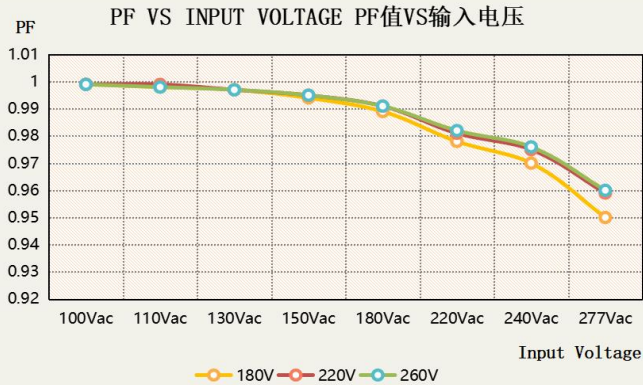


LVS-200W-260C

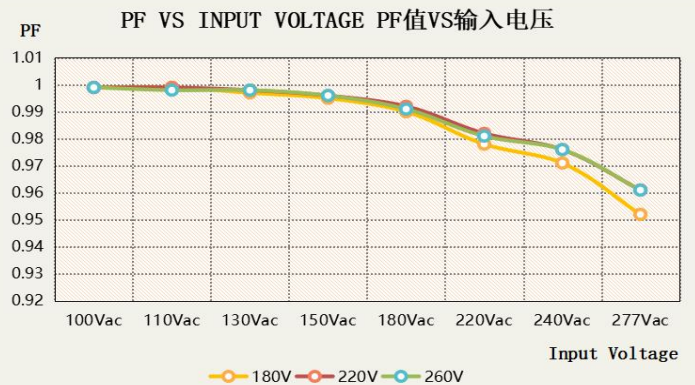


LVS-150W-260C

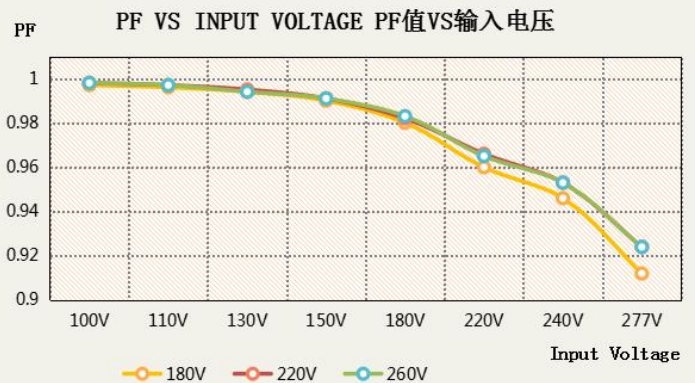
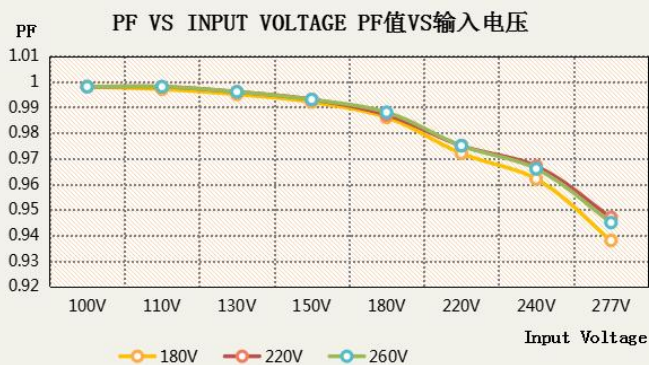
LVS-120W-26C



LVS-100W-260C

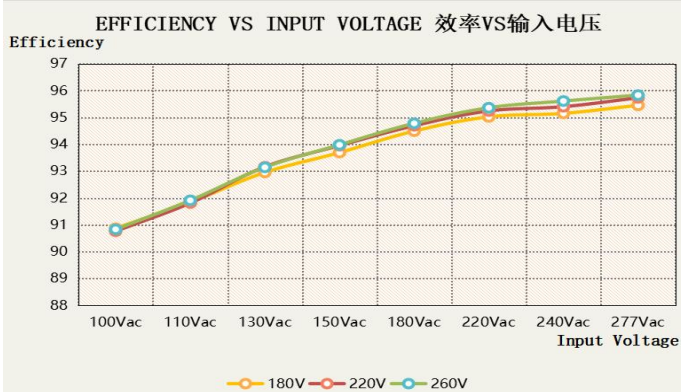


LVS-80W-260C

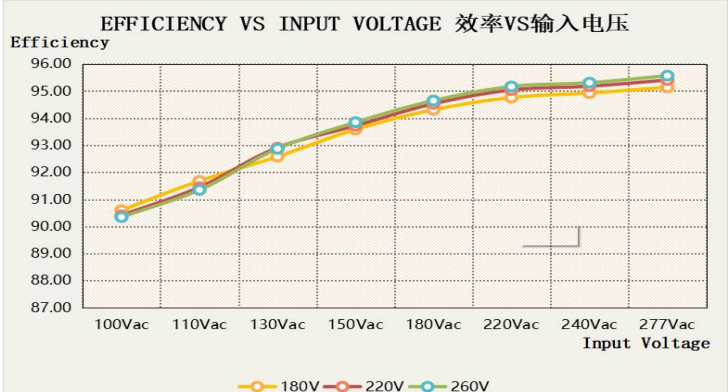


EFFICIENCY VS INPUT VOLTAGE 效率 VS 输入电压

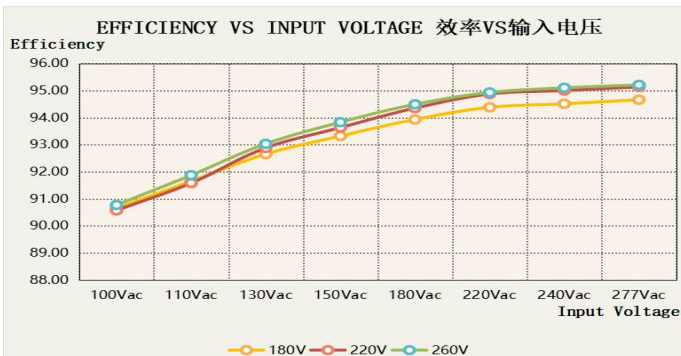
LVS-240W-260C



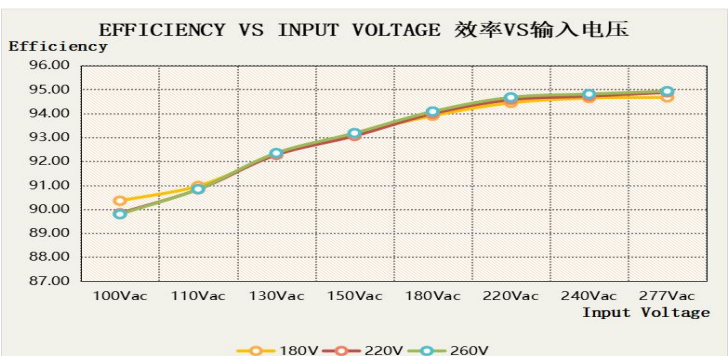
LVS-200W-260C



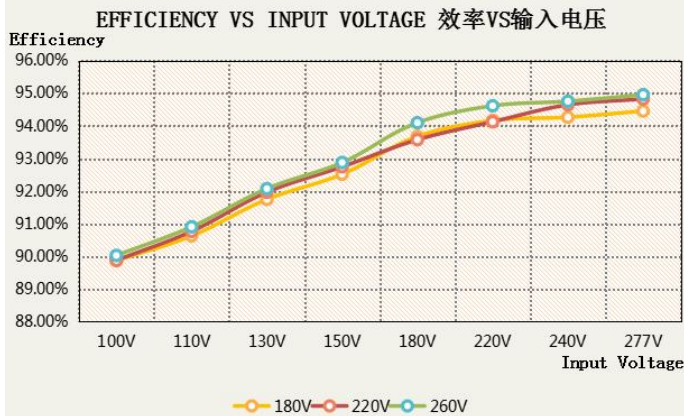
LVS-150W-260C



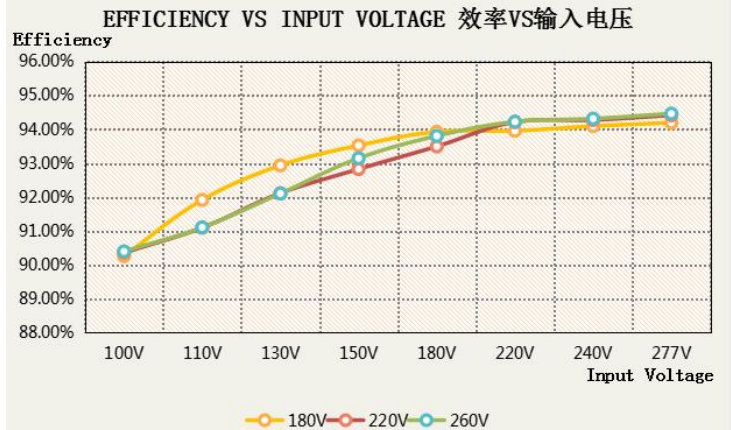
LVS-120W-260C



LVS-100W-260C

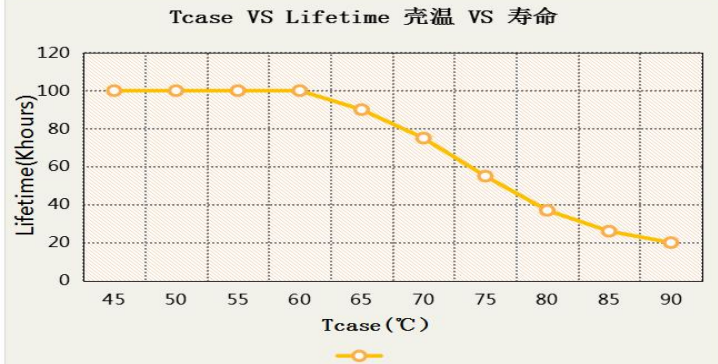
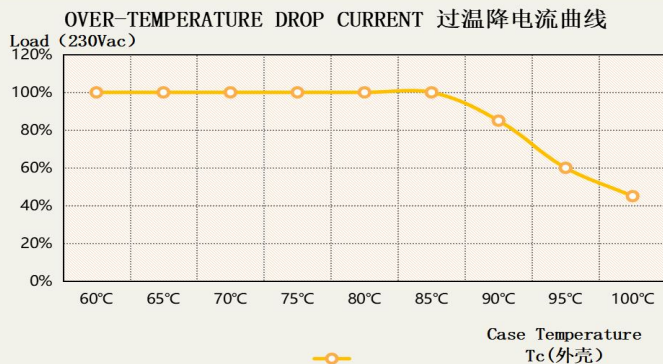


LVS-80W-260C



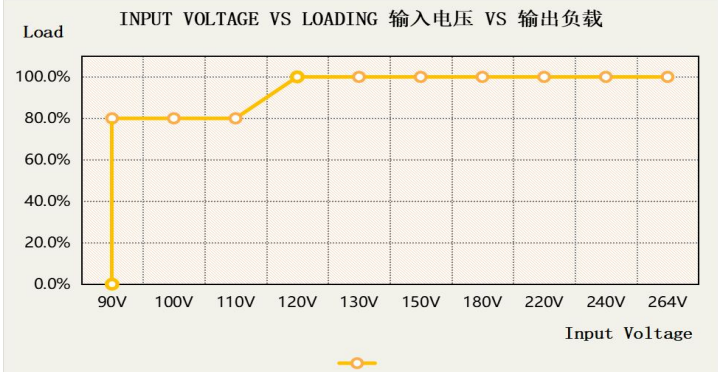
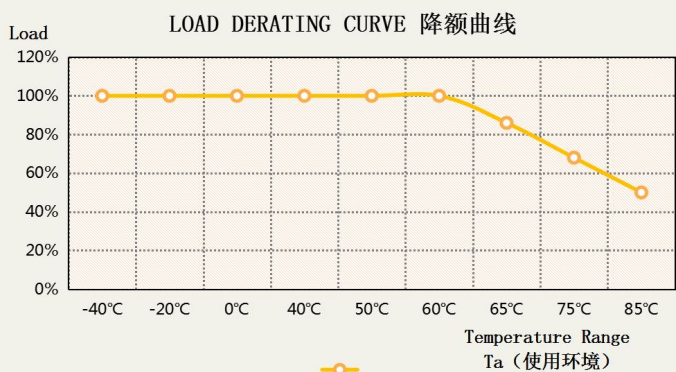
OVER-TEMPERATURE DROP CURRENT 过温降电流曲线

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:

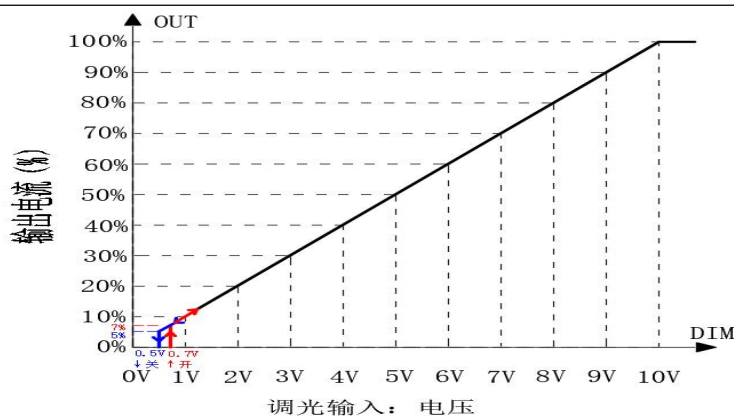
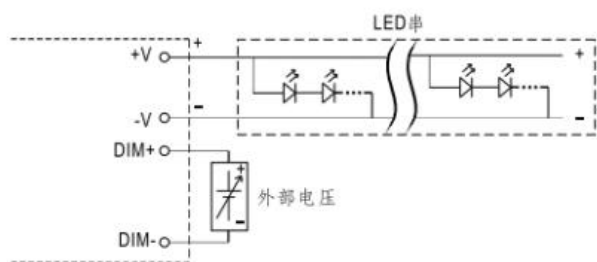
- 在DIM+ (紫色线) 和DIM- (灰色线) 间连接一个电阻或0-10V直流电压或PWM信号, 即可调整输出恒电流的数值
- 调光端口输出电流: 100uA (典型值)
- 12V辅组电源输出, 输出最大电流250mA (可选)

三合一调光曲线

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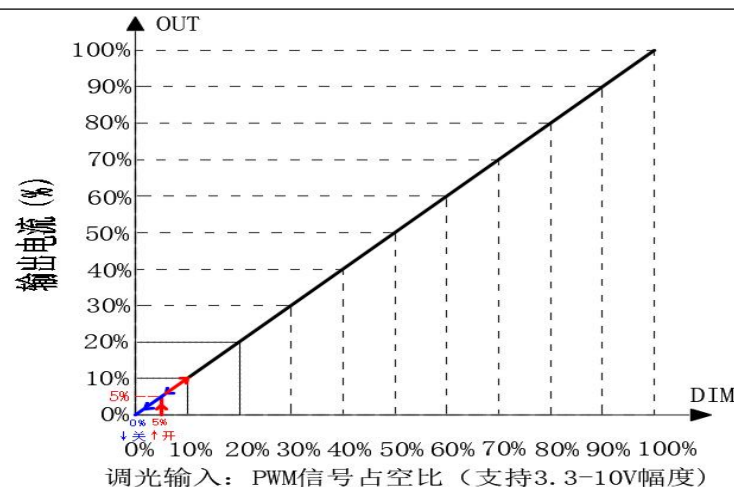
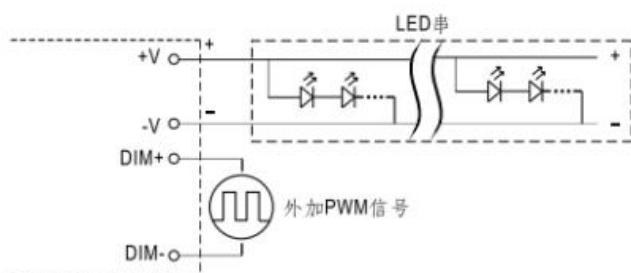
0-10V调光

■ 用外加0-10VDC电压



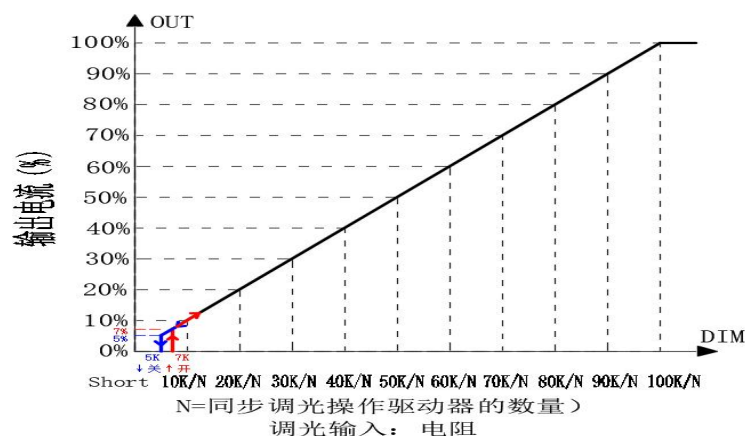
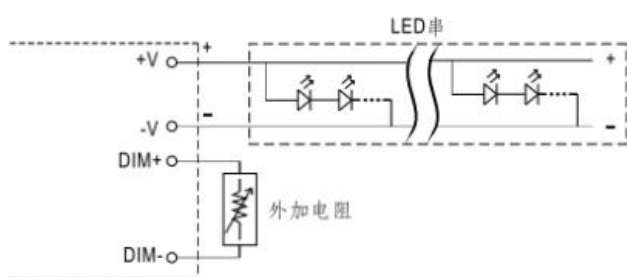
PWM调光 (PWM频率 1KHZ)

■ 用外加 PWM信号 (频率0.2K-5K)



电阻调光 (100K)

■ 用外加电阻 (0-100K)

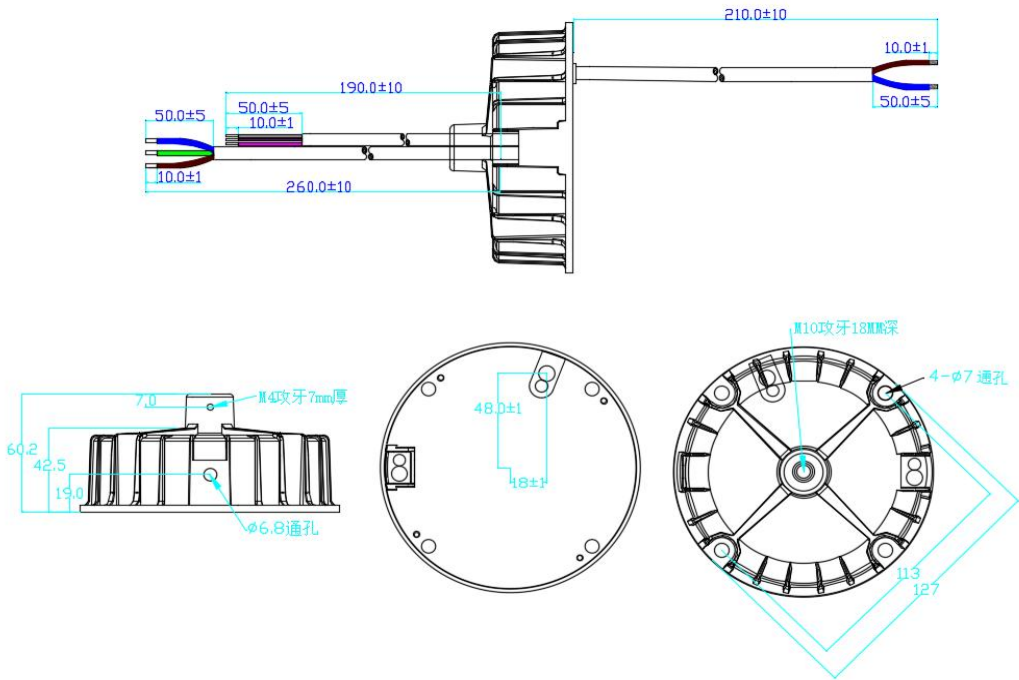


■ MECHANICAL SPECIFICATION & PACKING 机械尺寸图 & 包装:

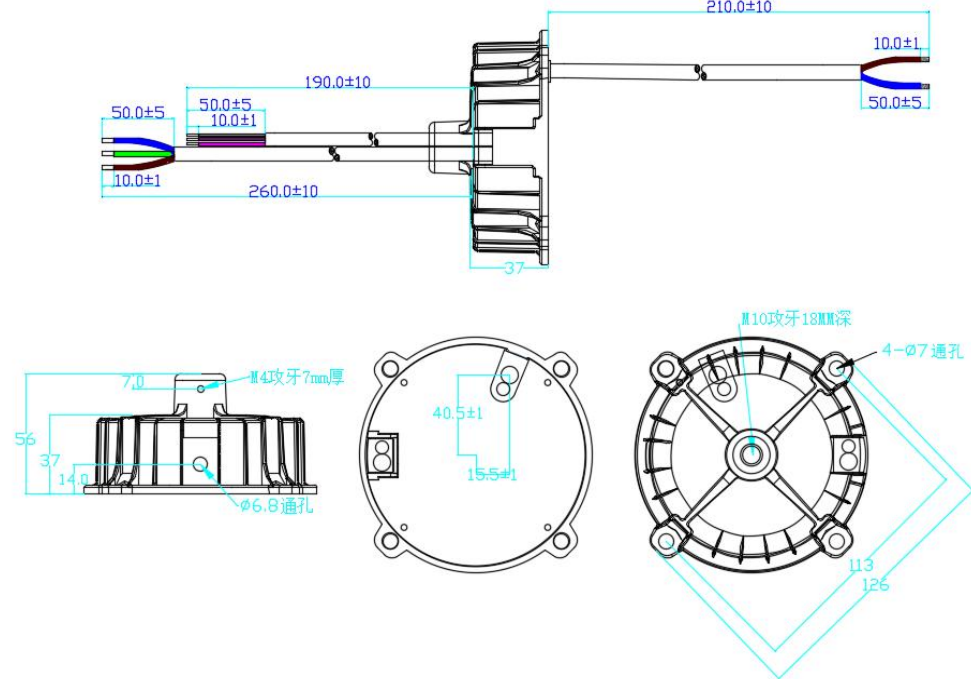
Bare plate dimension 裸板尺寸	103.2*103*31 (L*W*H)	200W 240W
	85*87.5*26mm (L*W*H)	80W 100W 120W 150W
final dimension 成品尺寸	127*127*60.2mm (L*W*H)	200W 240W
	126*126*56mm (L*W*H)	80W 100W 120W 150W
Product Weight 产品重量	920g	200W 240W
	620g	80W 100W 120W 150W

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Case No. 机壳型号: 200W 240W Unit 单位:mm



Case No. 机壳型号: 80W 100W 120W 150W Unit 单位:mm



■ Nameplate 铭牌

尺寸: 85*32mm 样式: 贴纸

LVS-240W-260C	LVS-200W-260C
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SUNCOM

LVS-240W-260C

LED DRIVER

INPUT

ACL-(BN)BK
ACN-(BU)WT
FG ⊕ GN
(GN/YL)

MADE IN CHINA
www.gdsuncom.com

Vin:100-240V~3A 50/60Hz
Vin:277V~1A 50/60Hz
η:≥95% PF:≥0.95 .tc

Rated Power:240W

tc:90°C
ta:50°C@Vin100-200V~
ta:60°C@Vin200-277V~

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, Yongji Road Third, Yongjing Industry Zone, Hengtan Town, Zhongshan City, 528478Guangdong, China

OUTPUT

(BN)RD Vo + ○
(BU)BK Vo - ○
PL DIM + ○
BK/WT 12V-/DIM - ○
PK 12V + ○

Class P
IP65

SUNCOM

LVS-200W-260C

LED DRIVER

INPUT

ACL-(BN)BK
ACN-(BU)WT
FG ⊕ GN
(GN/YL)

MADE IN CHINA
www.gdsuncom.com

Vin:100-240V~2.5A 50/60Hz
Vin:277V~0.8A 50/60Hz
η:≥95% PF:≥0.95 .tc

Rated Power:200W

tc:90°C
ta:50°C@Vin100-200V~
ta:60°C@Vin200-277V~

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, Yongji Road Third, Yongjing Industry Zone, Hengtan Town, Zhongshan City, 528478Guangdong, China

OUTPUT

(BN)RD Vo + ○
(BU)BK Vo - ○
PL DIM + ○
BK/WT 12V-/DIM - ○
PK 12V + ○

Class P
IP65

尺寸：75*28mm 样式：贴纸

LVS-150W-260C

SUNCOM®

LVS-150W-260C

LED DRIVER

INPUT

ACL-(BN)BK
ACN-(BU)WT
FG ⊕ GN
(GN/YL)

MADE IN CHINA
www.gdsuncom.com

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
GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD
No.1-02, Yongyi Road Three, Yongxing Industry Zone, Hengtan Town, Zhongshan City, 528478 Guangdong, China

Vout:180-260V = 450-750mA
Maximum voltage: Uout 300V=
Rated Power:150W

tc:90°C
ta:50°C@Vin100-200V-
ta:60°C@Vin200-277V-

OUTPUT

(BN)RD Vo + ○
(BU)BK Vo - ○
PL DIM+○
BK/WT 12V-/DIM-○
PK 12V+○

Class P

IP65

LVS-120W-260C

SUNCOM®

LVS-120W-260C

LED DRIVER

INPUT

ACL-(BN)BK
ACN-(BU)WT
FG ⊕ GN
(GN/YL)

MADE IN CHINA
www.gdsuncom.com

Vin:100-240V~1.5A 50/60Hz
Vin:277V~0.5A 50/60Hz
η:≥94% PF:≥0.95 .tc

*277 for North American only.
Suitable for dry damp and wet locations
GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD
No.1-02, Yongyi Road Three, Yongxing Industry Zone, Hengtan Town, Zhongshan City, 528478 Guangdong, China

Vout:180-260V = 350-600mA
Maximum voltage: Uout 300V=
Rated Power:120W

tc:90°C
ta:50°C@Vin100-200V-
ta:60°C@Vin200-277V-

OUTPUT

(BN)RD Vo + ○
(BU)BK Vo - ○
PL DIM+○
BK/WT 12V-/DIM-○
PK 12V+○

Class P

IP65

尺寸：75*28mm 样式：贴纸

LVS-100W-260C				LVS-80W-260C			
SUNCOM LVS-100W-260C LED DRIVER				SUNCOM LVS-80W-260C LED DRIVER			
INPUT		Vin:100-240V~1.3A 50/60Hz Vin:277V~0.5A 50/60Hz η≥94% PF≥0.95 .tc		Vout:180-260V= 300-500mA Maximum voltage: Uout 300V= Rated Power:100W		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)		*277 for North America 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, Hengshan Town, Zhongshan City, 528478 Guangdong, China		tc:90°C ta:50°C@Vin100-200V~ ta:60°C@Vin200-277V~			
MADE IN CHINA www.gdsuncom.com		CB IP65		MADE IN CHINA www.gdsuncom.com		CB IP65	