

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		
地址：广东省中山市横栏镇永兴工业区永谊三路1号 邮编：528478		
TEL:0760-22326609 28168136 FAX:0760-87600929		

	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

◆ 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-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; 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)
A	√		
B	√	√	
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-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 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-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. 总谐波失真 At 230Vac input, full load 满载, 输入	—	5.5%	≤10%	LVS-240W-180A/B/C
	—	5.6%	≤10%	LVS-200W-180A/B/C
	—	5.8%	≤10%	LVS-150W-180A/B/C

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	—	6%	≤10%	LVS-120W-180A/B/C
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

◆ 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-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 额定功率	—	—	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 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-180A/B/C
	≥94%	94.5%	—	LVS-200W-180A/B/C
	≥94%	94.3%	—	LVS-150W-180A/B/C
	≥93%	93.5%	—	LVS-120W-180A/B/C
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	—

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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	$<0.1\Omega$ / 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:

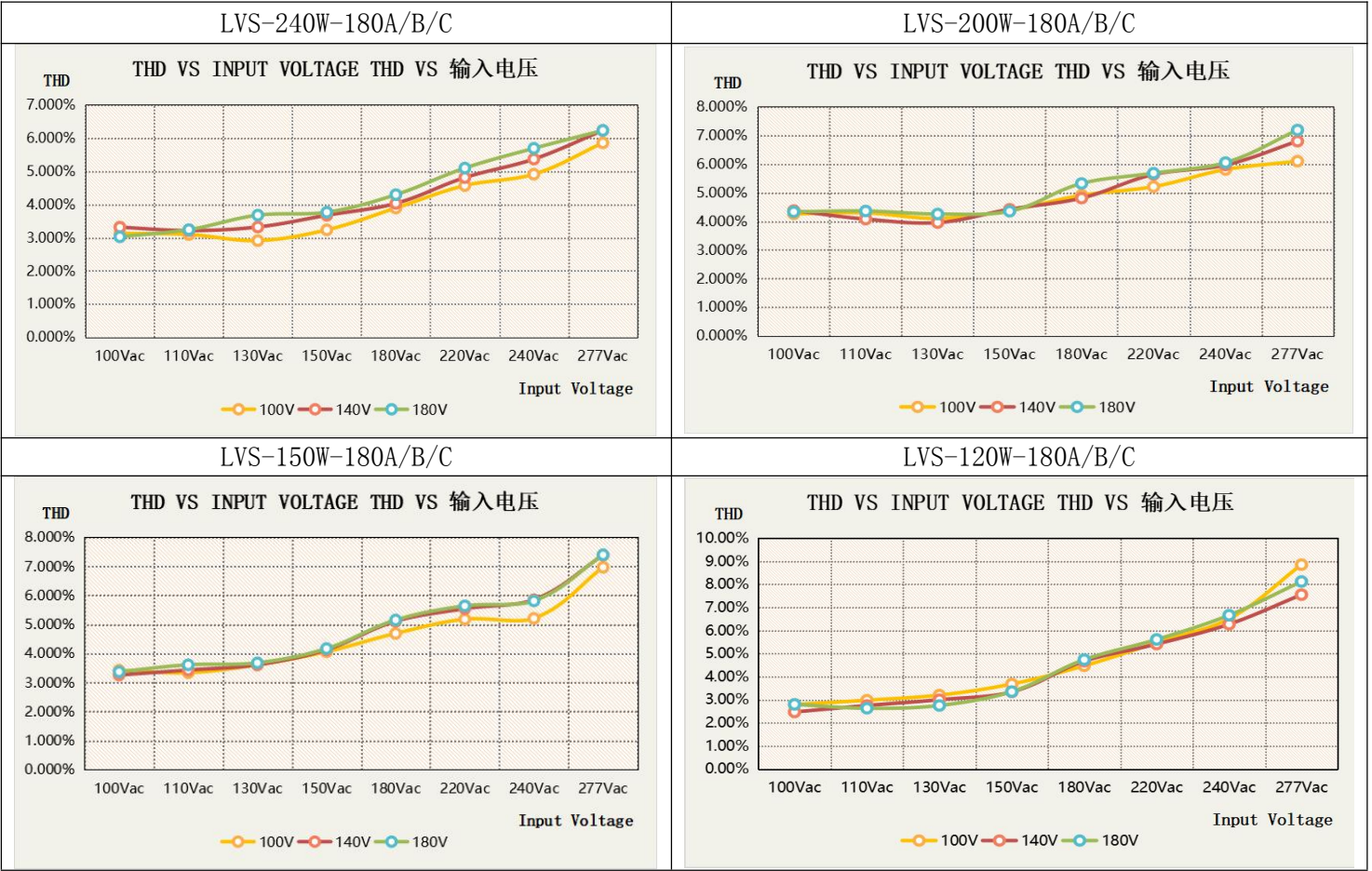
1) All parameters NOT specially mentioned are measured at 230Vac (50Hz) input, rated load and 25℃ of ambient temperature.
 如未特别说明，所有规格参数均在 230Vac (50Hz) 输入，额定负载，环境温度 25℃ 的条件下进行测量

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

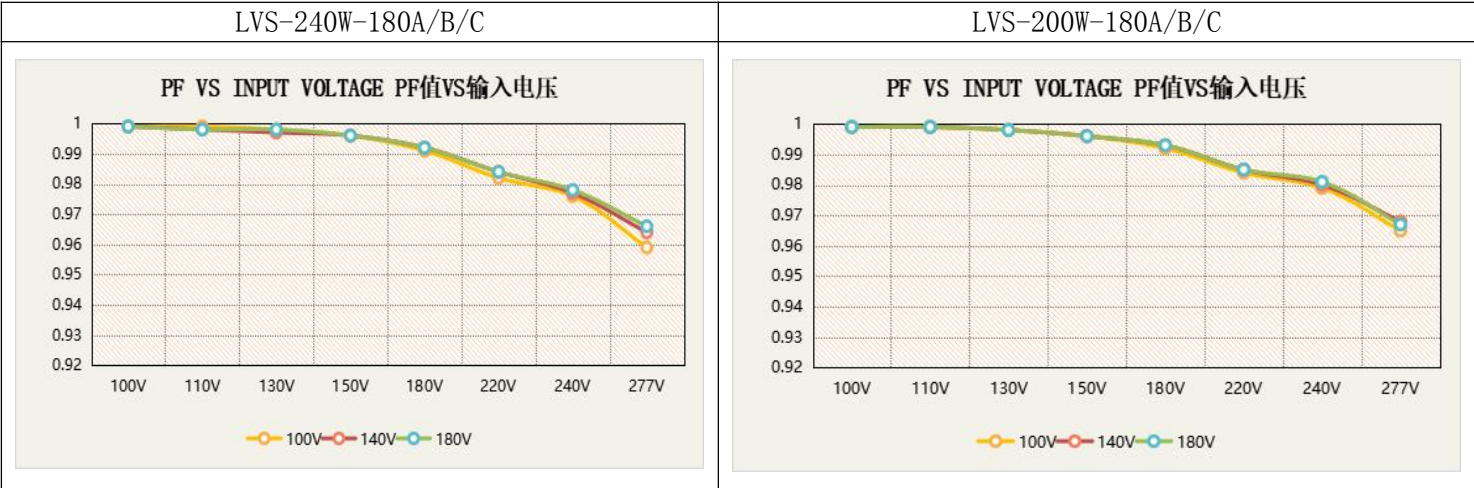
误差：包含设定误差、线性调整率和负载调整率。

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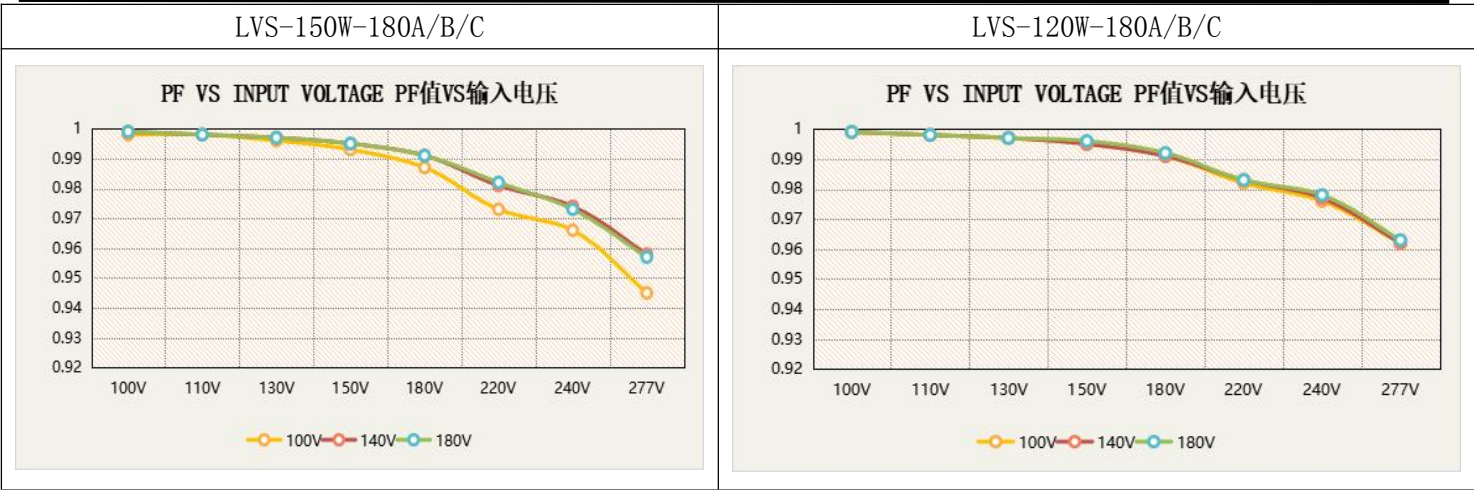
THD VS INPUT VOLTAGE THD VS 输入电压



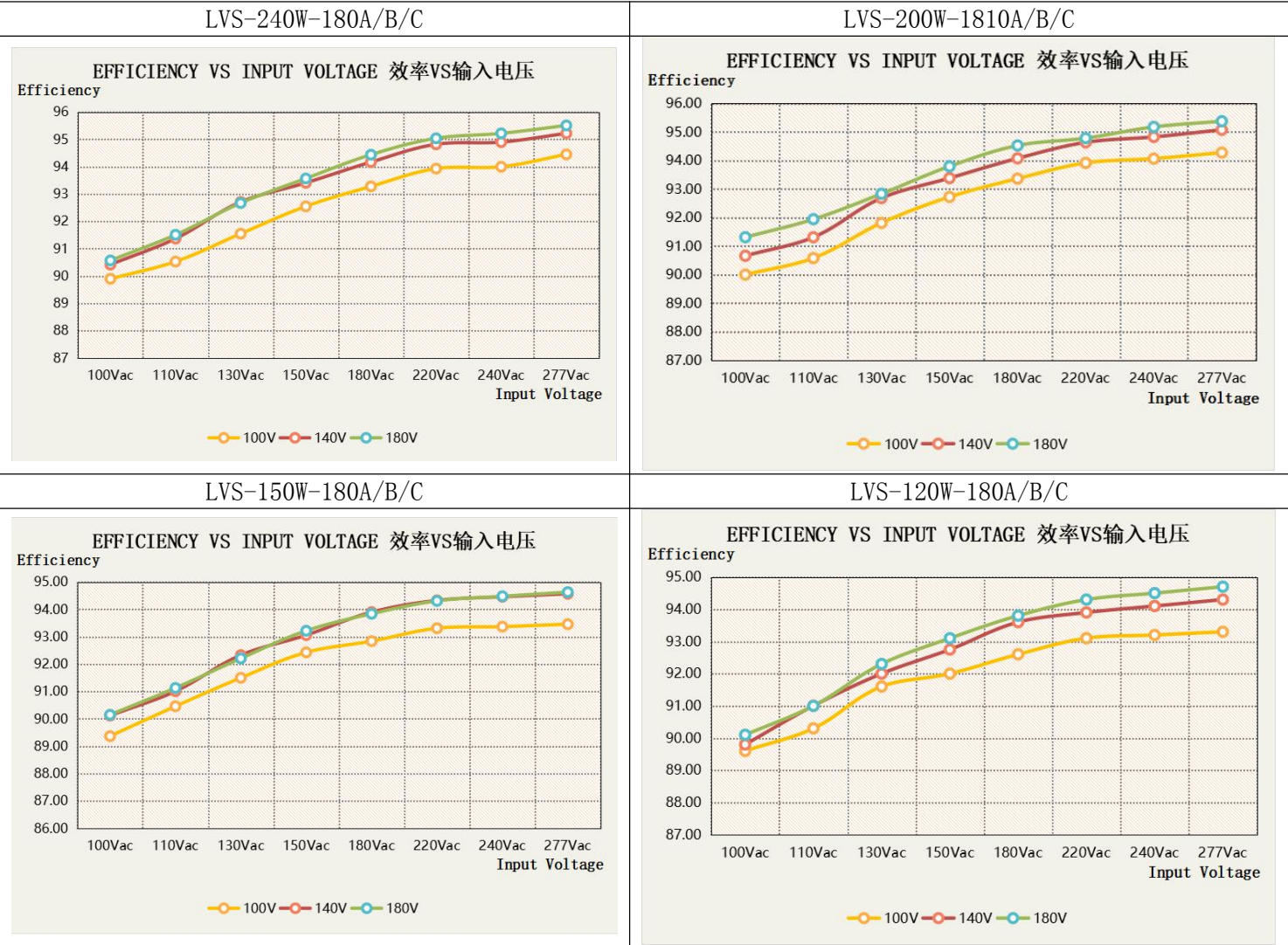
PF VS INPUT VOLTAGE PF 值 VS 输入电压



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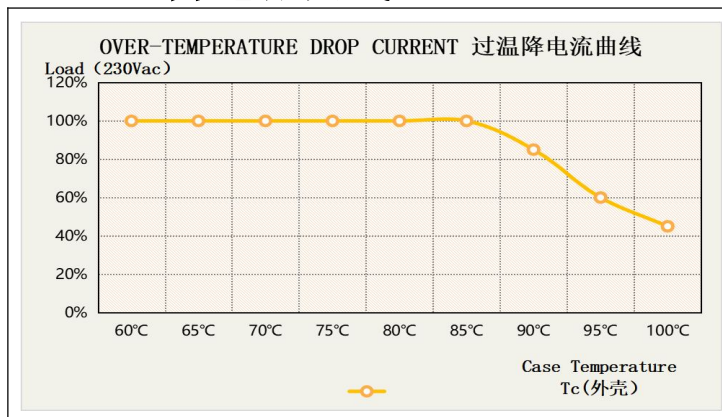


■ EFFICIENCY VS INPUT VOLTAGE 效率 VS 输入电压



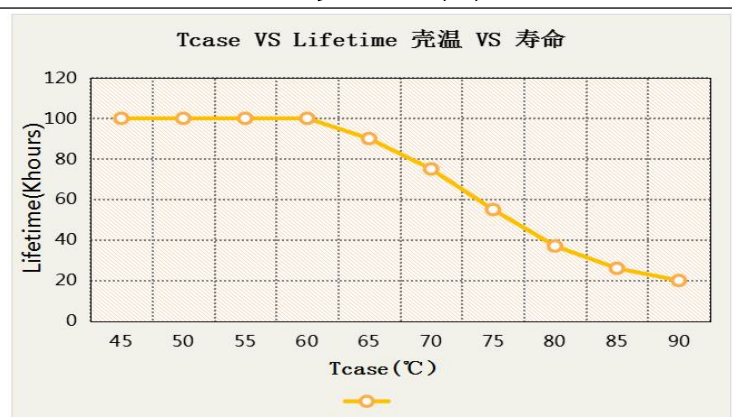
OVER-TEMPERATURE DROP CURRENT

过温降电流曲线



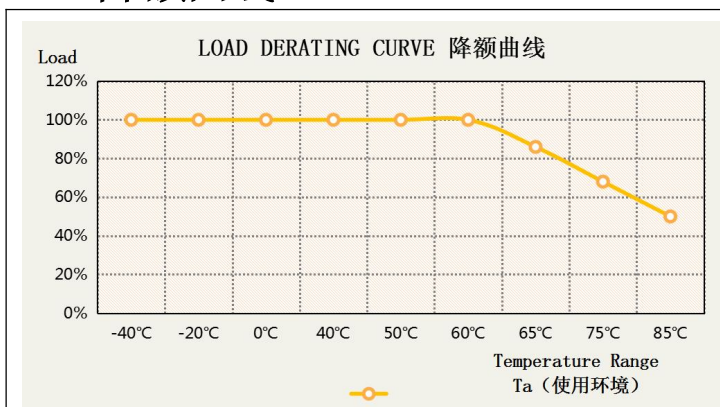
TCASE VS LIFETIME

壳温VS寿命



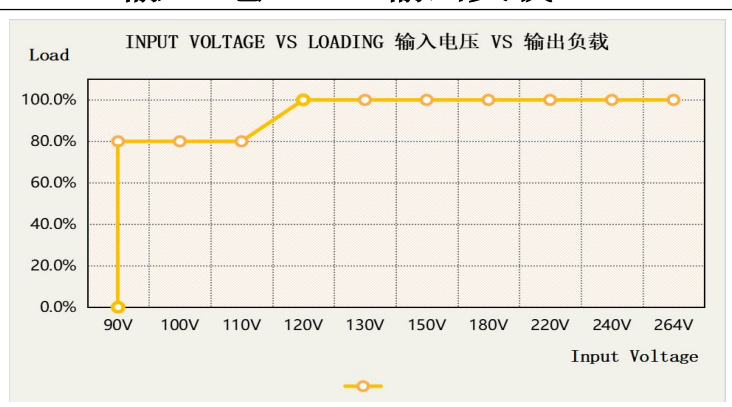
LOAD DERATING CURVE

降额曲线



INPUT VOLTAGE VS LOADING

输入电压 VS 输出负载



THE DIMMING CURVE 调光曲线

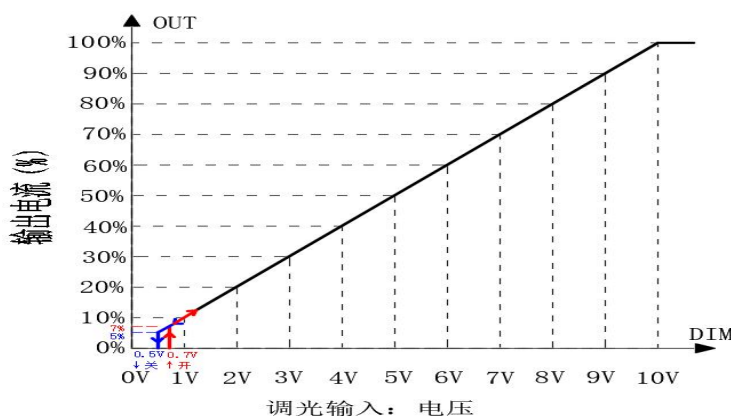
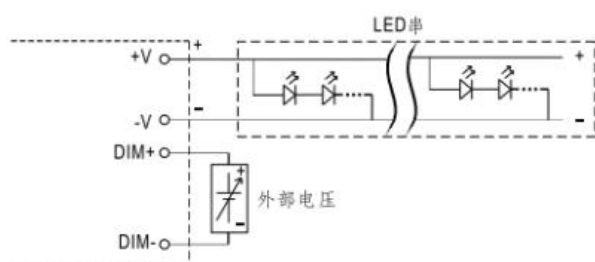
三合一调光功能:

- 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

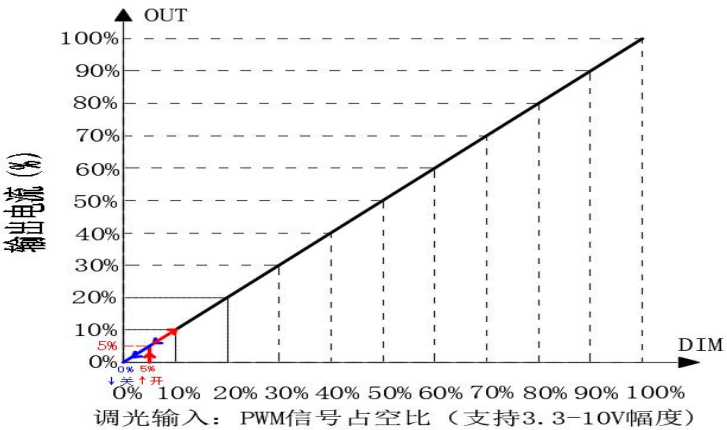
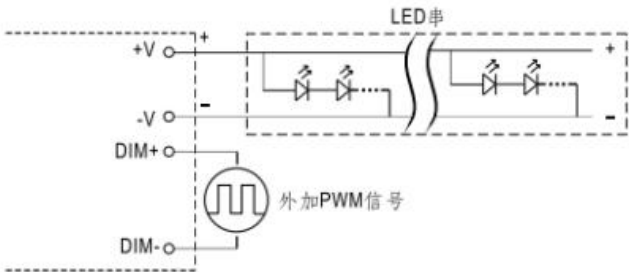
用外加0-10VDC电压



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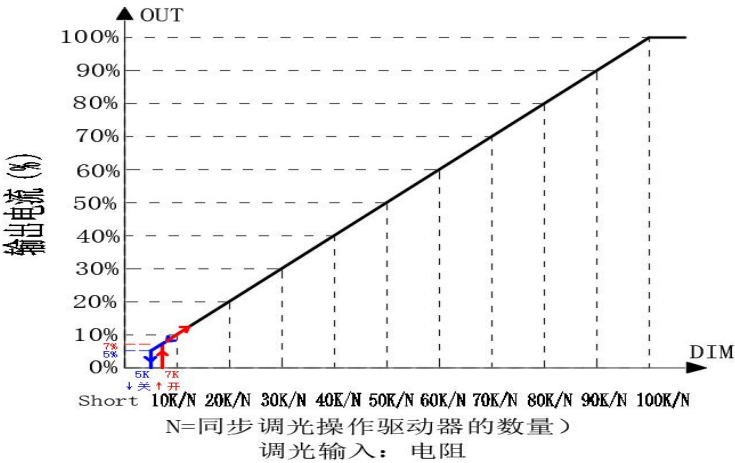
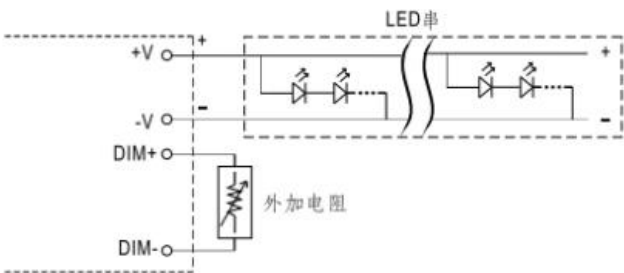
PWM调光（PWM频率 1KHZ）

用外加 PWM信号（频率0.2K-5K）



电阻调光（100K）

用外加电阻（0-100K）



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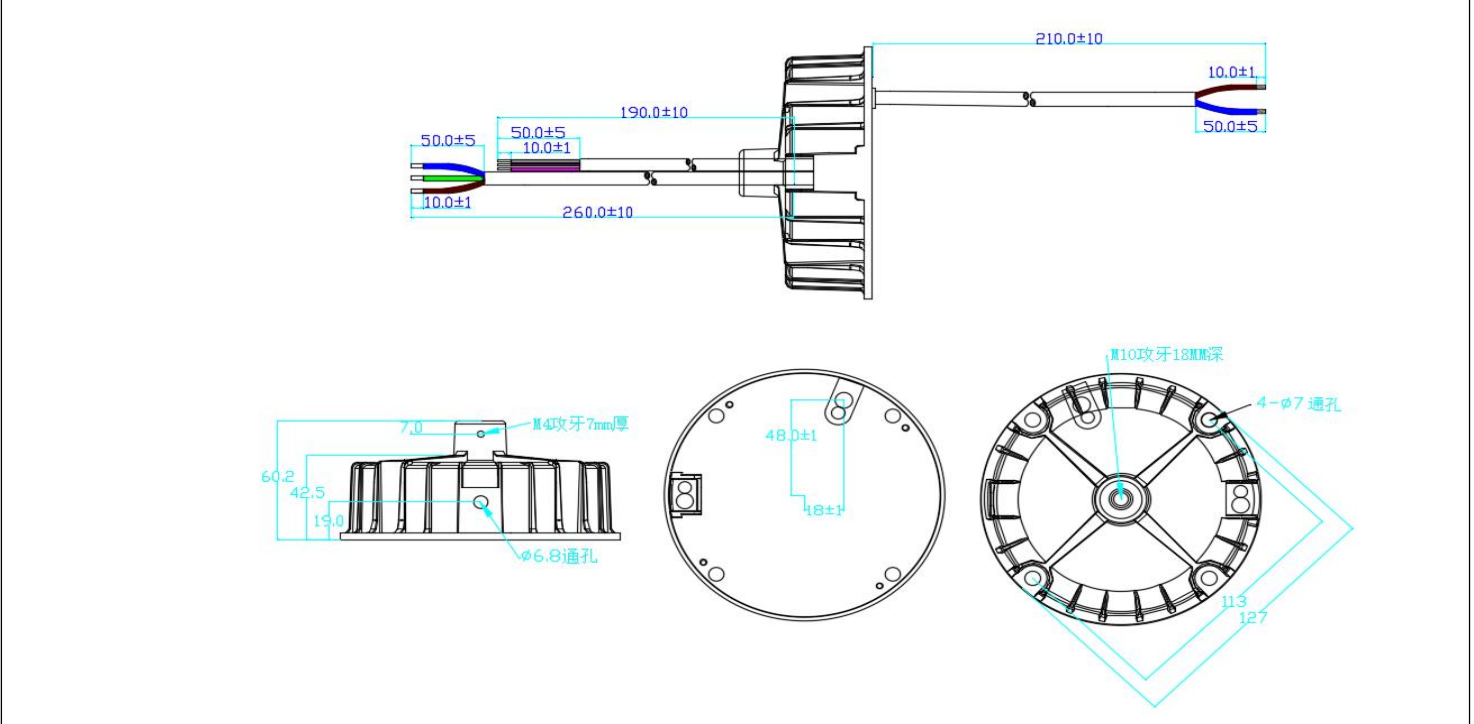
MECHANICAL

SPECIFICATION & PACKING

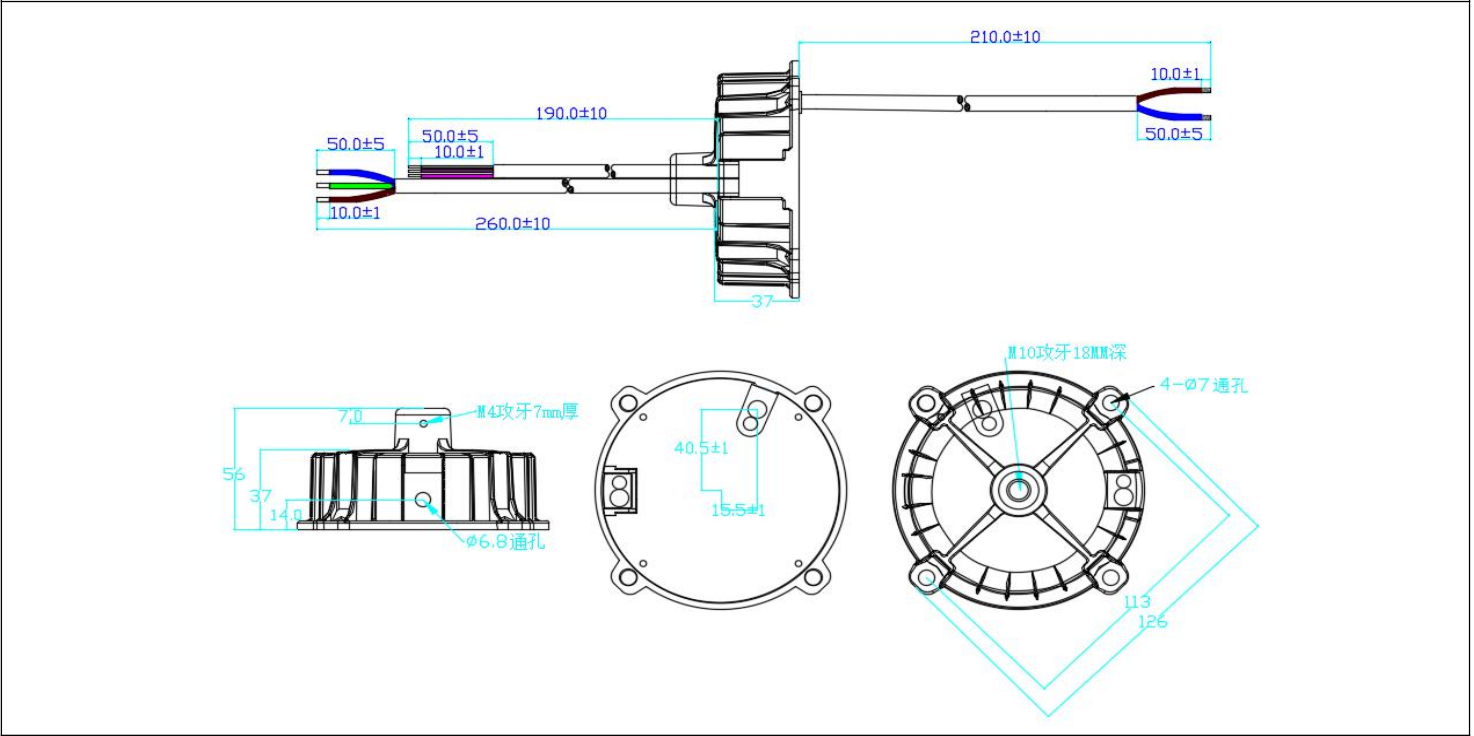
机械尺寸图 & 包装:

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

Case No. 机壳型号: 200W 240W Unit 单位:mm



Case No. 机壳型号: 120W 150W Unit 单位:mm



Nameplate 铭牌

尺寸: 85*32mm 样式: 贴纸

LVS-240W-180A/B/C

LVS-200W-180A/B/C

SUNCOM LVS-240W-180A 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 + O
ACN-(BU)WT	$\eta \geq 94\%$ PF: ≥ 0.95 .tc	Rated Power: 240W	(BU)BK Vo - O
FG GN	*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, Yongji Road Three, Yongxing Industry Zone, Henglan Town, Zhongshan City, 528478 Guangdong, China		
(GN/YL)	tc: 90°C	ta: 50°C@Vin100-200V~ ta: 60°C@Vin200-277V~	

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Class P IP65

SUNCOM LVS-200W-180A LED DRIVER

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 + O
ACN-(BU)WT	$\eta \geq 94\%$ PF: ≥ 0.95 .tc	Rated Power: 200W	(BU)BK Vo - O
FG GN	*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, Yongji Road Three, Yongxing Industry Zone, Henglan Town, Zhongshan City, 528478 Guangdong, China		
(GN/YL)	tc: 90°C	ta: 50°C@Vin100-200V~ ta: 60°C@Vin200-277V~	

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SUNCOM LVS-240W-180B 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 + O
ACN-(BU)WT	$\eta \geq 94\%$ PF: ≥ 0.95 .tc	Rated Power: 240W	(BU)BK Vo - O
FG GN	*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, Yongji Road Three, Yongxing Industry Zone, Henglan Town, Zhongshan City, 528478 Guangdong, China		
(GN/YL)	tc: 90°C	ta: 50°C@Vin100-200V~ ta: 60°C@Vin200-277V~	PL DIM + O PK DIM - O

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Class P IP65

SUNCOM LVS-200W-180B LED DRIVER

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 + O
ACN-(BU)WT	$\eta \geq 94\%$ PF: ≥ 0.95 .tc	Rated Power: 200W	(BU)BK Vo - O
FG GN	*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, Yongji Road Three, Yongxing Industry Zone, Henglan Town, Zhongshan City, 528478 Guangdong, China		
(GN/YL)	tc: 90°C	ta: 50°C@Vin100-200V~ ta: 60°C@Vin200-277V~	PL DIM + O PK DIM - O

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Class P IP65

SUNCOM LVS-240W-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 + O
ACN-(BU)WT	$\eta \geq 94\%$ PF: ≥ 0.95 .tc	Rated Power: 240W	(BU)BK Vo - O
FG GN	*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, Yongji Road Three, Yongxing Industry Zone, Henglan Town, Zhongshan City, 528478 Guangdong, China		
(GN/YL)	tc: 90°C	ta: 50°C@Vin100-200V~ ta: 60°C@Vin200-277V~	PL DIM + O PK 12V + O

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SUNCOM LVS-200W-180C LED DRIVER

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 + O
ACN-(BU)WT	$\eta \geq 94\%$ PF: ≥ 0.95 .tc	Rated Power: 200W	(BU)BK Vo - O
FG GN	*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, Yongji Road Three, Yongxing Industry Zone, Henglan Town, Zhongshan City, 528478 Guangdong, China		
(GN/YL)	tc: 90°C	ta: 50°C@Vin100-200V~ ta: 60°C@Vin200-277V~	PL DIM + O PK 12V + O

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Class P IP65

LVS-150W-180A/B/C

LVS-120W-180A/B/C

SUNCOM LVS-150W-180A LED DRIVER

INPUT	Vin:100-240V~1.8A 50/60Hz	Vout:100-180V = 750-1400mA	OUTPUT
ACL-(BN)BK	Vin:277V~0.6A 50/60Hz	Maximum voltage: Uout 220V	(BN)RD Vo + O
ACN-(BU)WT	$\eta \geq 94\%$ PF: ≥ 0.95 .tc	Rated Power: 150W	(BU)BK Vo - O
FG GN	*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, Yongji Road Three, Yongxing Industry Zone, Henglan Town, Zhongshan City, 528478 Guangdong, China		
(GN/YL)	tc: 90°C	ta: 50°C@Vin100-200V~ ta: 60°C@Vin200-277V~	

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Class P IP65

SUNCOM LVS-120W-180A LED DRIVER

INPUT	Vin:100-240V~1.5A 50/60Hz	Vout:100-180V = 500-950mA	OUTPUT
ACL-(BN)BK	Vin:277V~0.5A 50/60Hz	Maximum voltage: Uout 220V	(BN)RD Vo + O
ACN-(BU)WT	$\eta \geq 93\%$ PF: ≥ 0.95 .tc	Rated Power: 120W	(BU)BK Vo - O
FG GN	*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, Yongji Road Three, Yongxing Industry Zone, Henglan Town, Zhongshan City, 528478 Guangdong, China		
(GN/YL)	tc: 90°C	ta: 50°C@Vin100-200V~ ta: 60°C@Vin200-277V~	

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Class P IP65

SUNCOM LVS-150W-180B LED DRIVER

INPUT	Vin:100-240V~1.8A 50/60Hz	Vout:100-180V = 750-1400mA	OUTPUT
ACL-(BN)BK	Vin:277V~0.6A 50/60Hz	Maximum voltage: Uout 220V	(BN)RD Vo + O
ACN-(BU)WT	$\eta \geq 94\%$ PF: ≥ 0.95 .tc	Rated Power: 150W	(BU)BK Vo - O
FG GN	*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, Yongji Road Three, Yongxing Industry Zone, Henglan Town, Zhongshan City, 528478 Guangdong, China		
(GN/YL)	tc: 90°C	ta: 50°C@Vin100-200V~ ta: 60°C@Vin200-277V~	PL DIM + O PK DIM - O

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Class P IP65

SUNCOM LVS-120W-180B LED DRIVER

INPUT	Vin:100-240V~1.5A 50/60Hz	Vout:100-180V = 500-950mA	OUTPUT
ACL-(BN)BK	Vin:277V~0.5A 50/60Hz	Maximum voltage: Uout 220V	(BN)RD Vo + O
ACN-(BU)WT	$\eta \geq 93\%$ PF: ≥ 0.95 .tc	Rated Power: 120W	(BU)BK Vo - O
FG GN	*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, Yongji Road Three, Yongxing Industry Zone, Henglan Town, Zhongshan City, 528478 Guangdong, China		
(GN/YL)	tc: 90°C	ta: 50°C@Vin100-200V~ ta: 60°C@Vin200-277V~	PL DIM + O PK DIM - O

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Class P IP65

SUNCOM LVS-150W-180C LED DRIVER

INPUT	Vin:100-240V~1.8A 50/60Hz	Vout:100-180V = 750-1400mA	OUTPUT
ACL-(BN)BK	Vin:277V~0.6A 50/60Hz	Maximum voltage: Uout 220V	(BN)RD Vo + O
ACN-(BU)WT	$\eta \geq 94\%$ PF: ≥ 0.95 .tc	Rated Power: 150W	(BU)BK Vo - O
FG GN	*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, Yongji Road Three, Yongxing Industry Zone, Henglan Town, Zhongshan City, 528478 Guangdong, China		
(GN/YL)	tc: 90°C	ta: 50°C@Vin100-200V~ ta: 60°C@Vin200-277V~	PL DIM + O PK 12V + O

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Class P IP65

SUNCOM LVS-120W-180C LED DRIVER

INPUT	Vin:100-240V~1.5A 50/60Hz	Vout:100-180V = 500-950mA	OUTPUT
ACL-(BN)BK	Vin:277V~0.5A 50/60Hz	Maximum voltage: Uout 220V	(BN)RD Vo + O
ACN-(BU)WT	$\eta \geq 93\%$ PF: ≥ 0.95 .tc	Rated Power: 120W	(BU)BK Vo - O
FG GN	*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, Yongji Road Three, Yongxing Industry Zone, Henglan Town, Zhongshan City, 528478 Guangdong, China		
(GN/YL)	tc: 90°C	ta: 50°C@Vin100-200V~ ta: 60°C@Vin200-277V~	PL DIM + O PK 12V + O

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Class P IP65