

SUNCOM 新创电源	产品类型	LED 驱动电源 LED INTEGRATED SPECIAL DRIVER		
	产品系列	HVC-200W-56X系列	REV	V3.0

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:	HVC-200W-56X系列
Rev. /版本号	V3.0
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

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日期	变更原因	版本	批准
DATA	CAUSES OF CHANGE	REV.	APPROVED

[illegible]

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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
- Isolation, constant current mode output
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
- 3 in 1 dimming(dim-to-off)
三合一调光 (调光可关断, 隔离设计)
- 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: Street light、high bay lighting and other lighting lamps
应用于: 路灯、工矿灯等照明灯具

◆ Description 产品描述:

This product is a constant current Power Supply, Specially designed for LED, With low harmonic (< 10%), High Power Factor. Flicker free, Output current can be flexibly adjusted according to LED lamp voltage. 3 in 1 Dimming function.Built-in Surge Protection, Output Open-Circuit Protection, Short-Circuit Protection, Over Temperature drop current 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、无频闪, 输出电流可根据LED灯电压灵活调节。三合一调光功能。内置防雷保护, 输出开路、短路保护, 过温降电流保护, 极大的提高了产品的安全可靠。

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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)
HVC-200W-56X	200W	100-277Vac	27-56V	2.6A-5.6A	7.8%	0.95

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)
B		√	

■ 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	100Vac	120-277Vac	305ac	-
Frequency Range 频率范围	47Hz	50/60Hz	63Hz	-
AC Current 交流电流	-	-	2.0A	At 120V AC input,full load 满载，输入120Vac
Inrush Current 浪涌电流	-	-	110A	At 230Vac input,25℃ cold start 环温 25℃，230Vac 冷机启动
PF. 功率因数 At 230V AC input,full load 满载，输入 230Vac 下测量	0.95	0.97	-	-
THD. 总谐波失真 At 230V AC input,full load 满载，输入 230Vac 下测量	-	7.8%	10%	-
No Load Power 空载待机功耗	-	-	0.5W	At 220Vac input, Dim-to-Off with Standby; 输入 220V 条件下，将调光信号调到关闭后进入待机状态 (仅 C 版本)

◆ 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	27VDC	-	56VDC	
Current range Regulation 电流调节范围(电位器)	2.6A	-	5.6A	

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Rated Power 额定功率 (120-277Vac)	-	-	200W	-	
Output Power 输出功率 (90-100Vac)	-	100W	200W	The derating begins when the input voltage is less than 100Vac 输入电压小于 100Vac时开始降额	
No Load Output Voltage 输出空载电压	-	-	65V	-	
Efficiency 效率 Measured at full load and	91%	93%	-	At 230V AC input, 56VDC Output full load; 输出56VDC 满载, 输入230V条件下	
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%	-	
Turn-on Delay Time 启动时间	300mS	-	<1S	Measured at full load and 120-277Vac input; 输入 120-277Vac, 满载条件下	
Short Circuit Protection 短路保护	-	-	15W	Hiccup mode, recovers automatically after fault condition is removed 打嗝模式, 故障排除后自动恢复	
Over-temperature protection过温保护	-	90℃	-	Shell Tc point temperature, Drop current mode, the current automatically recovers after over temperature release, 外壳TC点温度, 降电流模式, 过温解除后, 电流自动恢复	

■ 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℃	+55℃	-
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:1.75KVAC, I/P-O/P:3.75KVAC, I/P-调光: 3.75KVAC, O/P-调光: 1.5KVAC	
Isolation Resistance 绝缘阻抗	100MΩ at I/P - FG 500VDC; I/P-O/P:100MΩ at 500VDC / 25℃	
leakage Current 漏电流	<0.7mA/277Vac	
Earthing Resistance 接地电阻	<0.1Ω / 25A 1 min	
Surge 浪涌	差模 L-N +/- 6KV (2 ohm), 共模 L, N-E +/- 10KV (12 ohm)	
Conducted electromagnetic interference 传导	>3dB	
Radiated electromagnetic interference 辐射	>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。

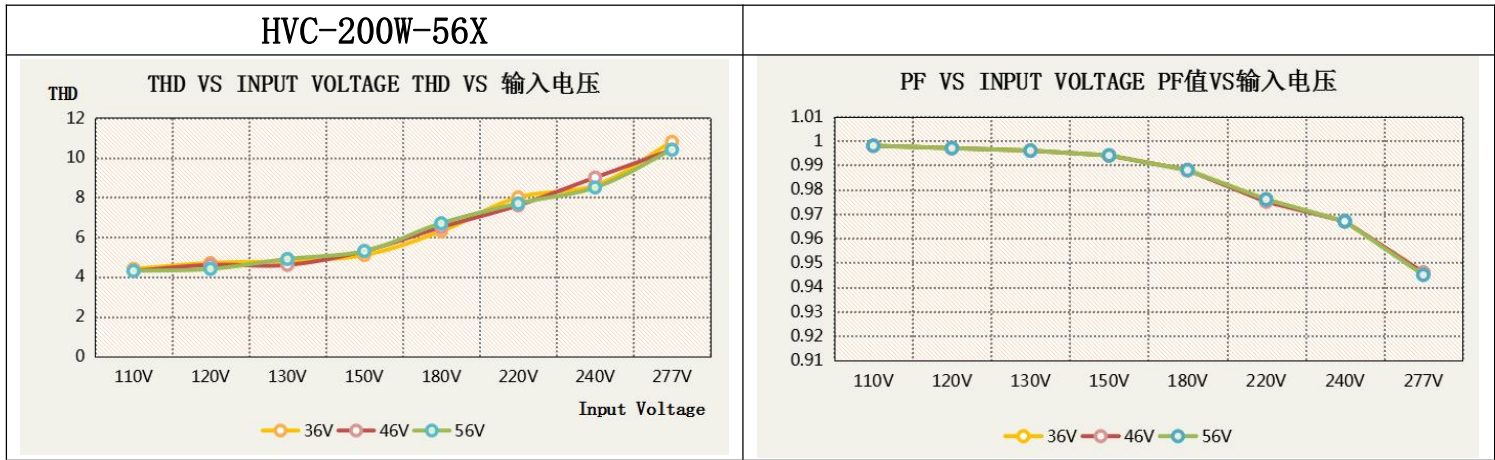
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THD VS INPUT VOLTAGE

THD VS 输入电压

PF VS INPUT VOLTAGE

PF 值 VS 输入电压

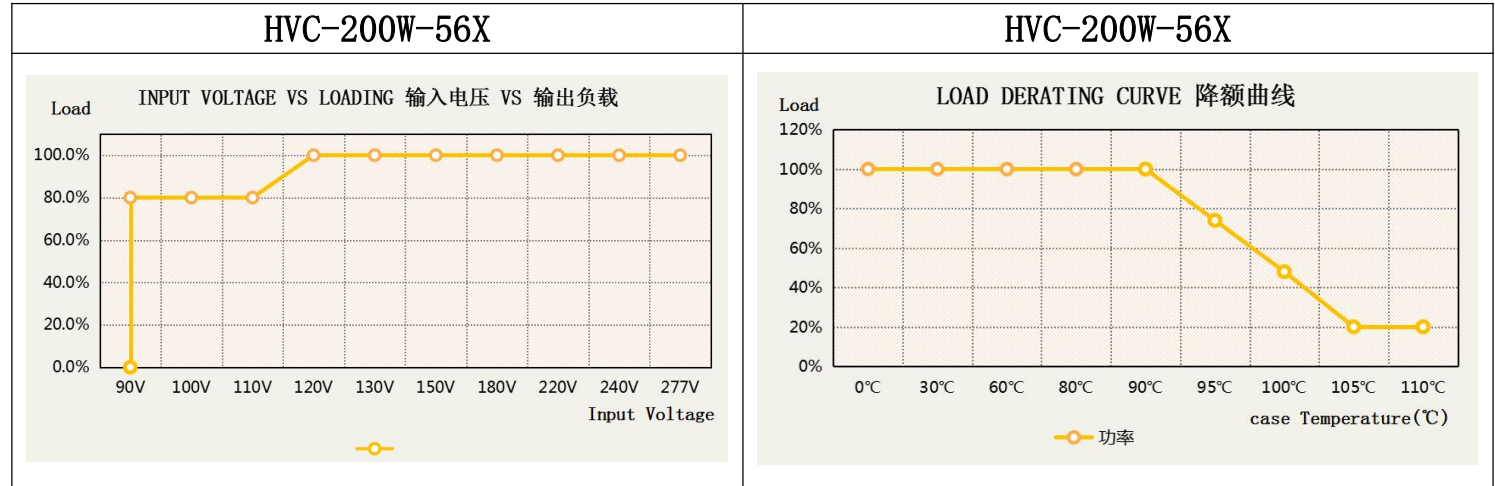


INPUT VOLTAGE VS LOADING

输入 电压 VS 输出负载

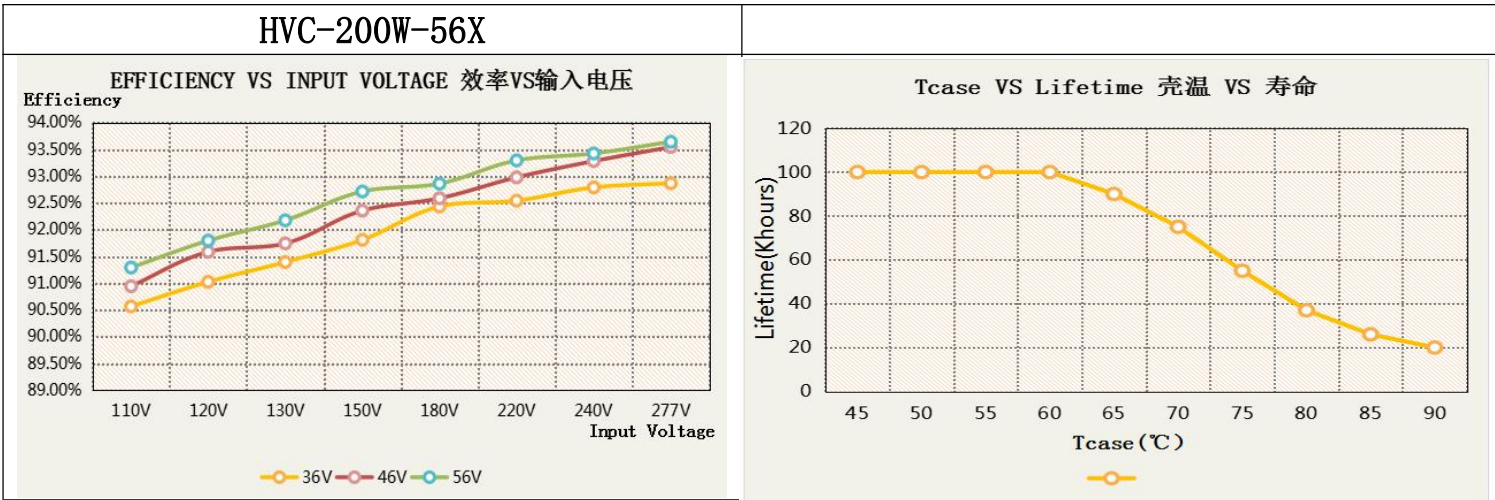
LOAD DERATING CURVE

降额曲线



EFFICIENCY VS INPUT VOLTAGE

效率 VS 输入电压



THE DIMMING CURVE 调光曲线

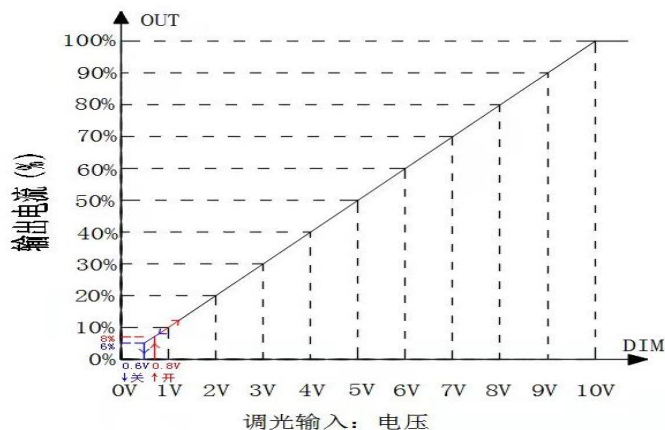
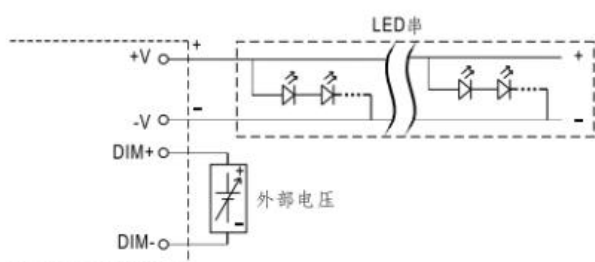
三合一调光功能及12V辅助源输出：

- 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）
- 辅助源：12V/250mA（粉色线）

三合一调光曲线

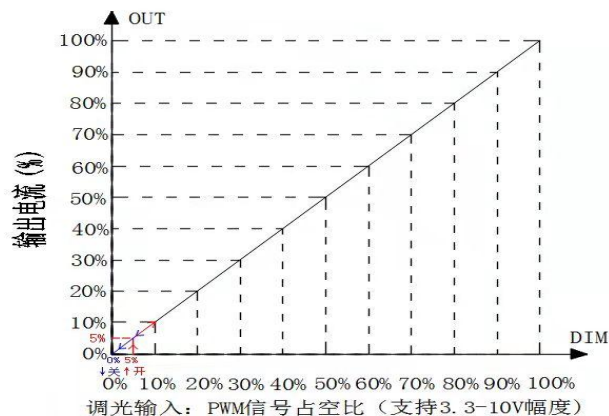
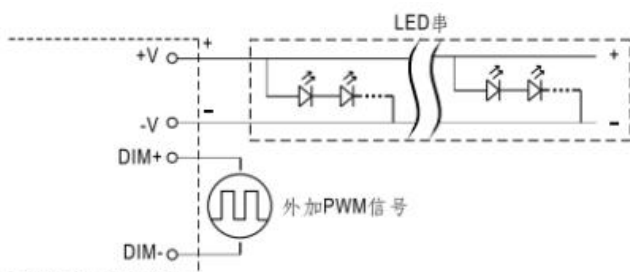
0-10V调光

用外加0-10VDC电压



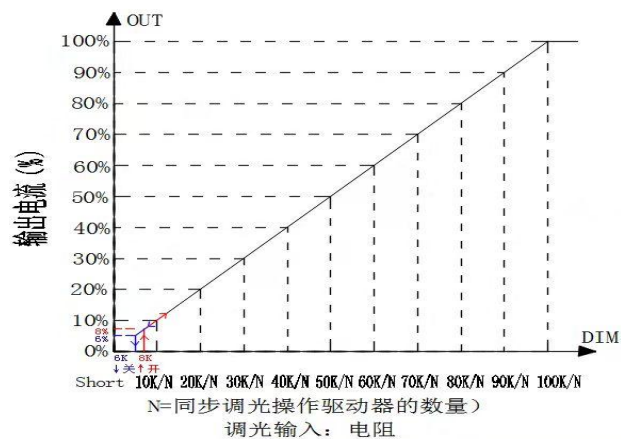
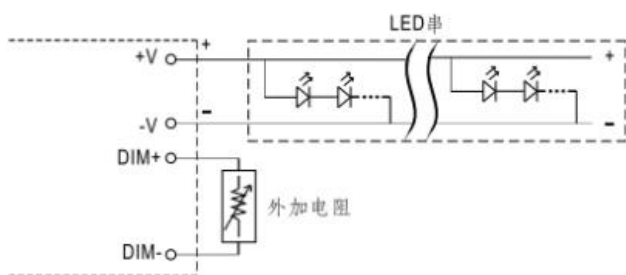
PWM调光（PWM频率 1KHZ）

用外加 PWM信号（频率0.5K-5K）



电阻调光（100K）

用外加电阻（0-100K）



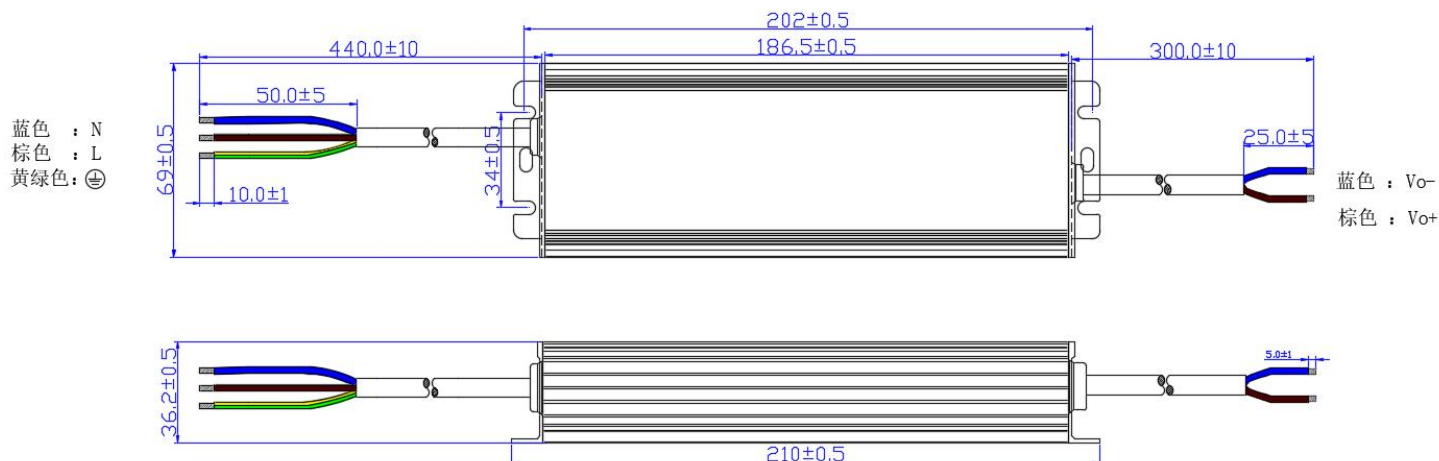
MECHANICAL SPECIFICATION & PACKING 机械尺寸图 & 包装:

Bare plate dimension 裸板尺寸	176.5*56*30mm (L*W*H)
final dimension 成品尺寸	210*69*36.2mm (L*W*H)
Product Weight 产品重量	1057g

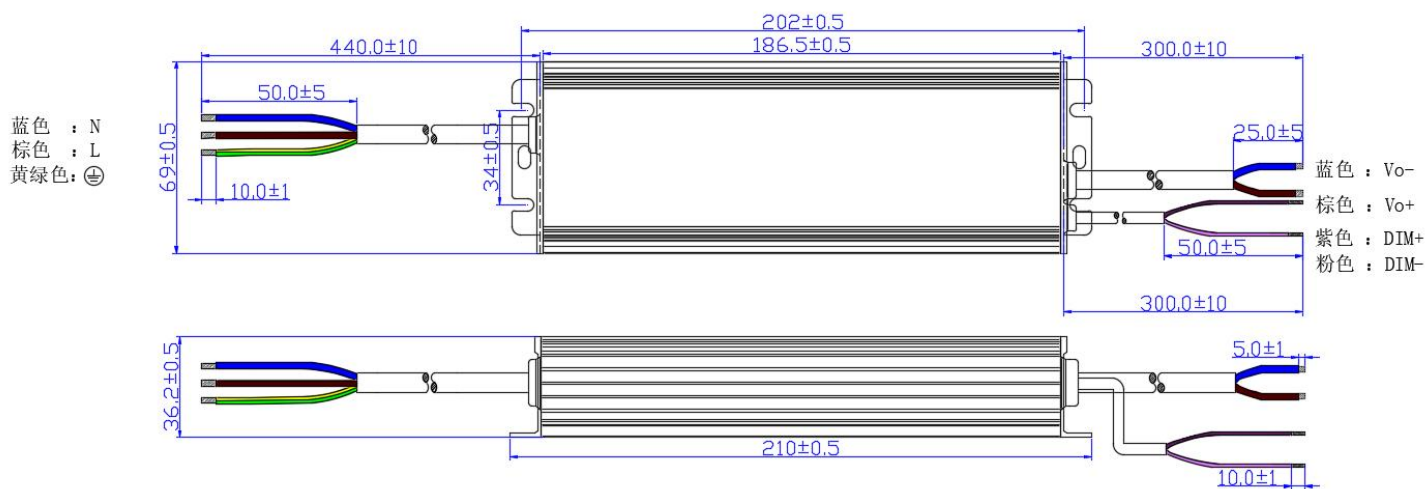
Case No. 机壳型号: 200W

Unit 单位:mm

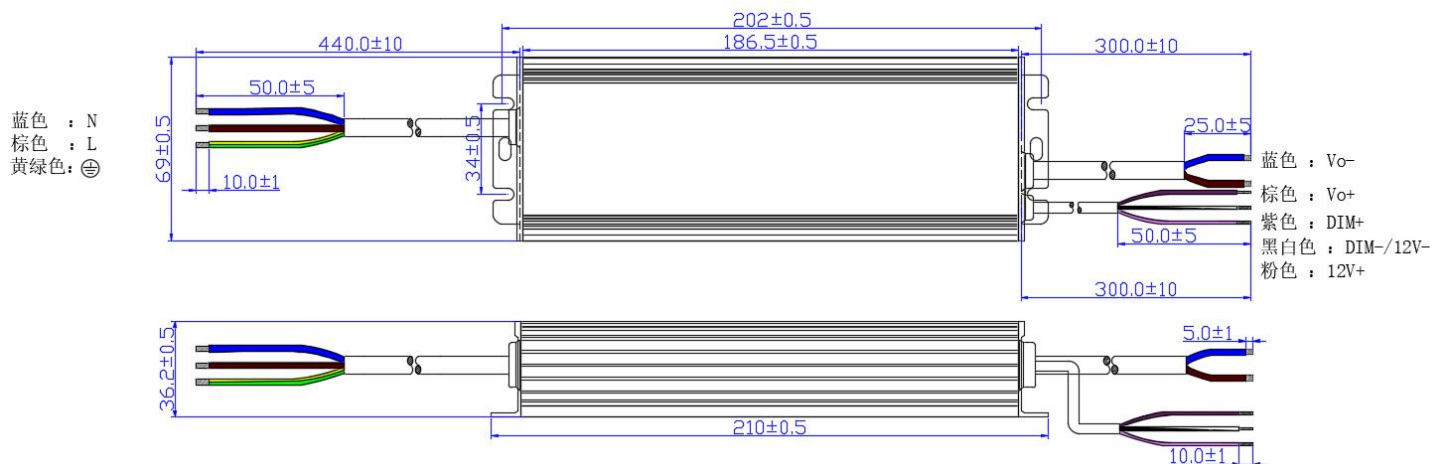
HVC-200W-56A



HVC-200W-56B



HVC-200W-56C



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■ Nameplate 铭牌

尺寸：182.5*48mm 样式：贴纸

HVC-200W-56A	HVC-200W-56B
SUNCOM HVC-200W-56A (型号)LED控制装置 INPUT 输入端 ○ ACL-(BN绿)BK-黑 ○ ACN-(BU蓝)WH-白 ⊕ (GN绿/YL黄) Vin(输入):100-240V~2.5A 50/60Hz Vin(输入):277V~0.9A 50/60Hz η:≥93% PF:≥0.95 •tc Vout(输出):27-56V ≐ 2600-5600mA Max.(最大电压):Uout 65V ≐ Rated Power(额定功率):200W (BN绿)RD-红 Vo + ○ (BU蓝)BK-黑 Vo - ○ *277 for North American only. Suitable for dry,Damp and wet locations No. 1-02, Yongyi Road Three, Yongxing Industry Zone, Henglan Town, Zhongshan City, 528478 Guangdong, China tc:90℃ ta:50℃@Vin100-200V~ ta:60℃@Vin200-277V~ 广东新创电源科技有限公司 GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD CE CB IP67 SUNCOM HVC-200W-56B (型号)LED控制装置 INPUT 输入端 ○ ACL-(BN绿)BK-黑 ○ ACN-(BU蓝)WH-白 ⊕ (GN绿/YL黄) Vin(输入):100-240V~2.5A 50/60Hz Vin(输入):277V~0.9A 50/60Hz η:≥93% PF:≥0.95 •tc Vout(输出):27-56V ≐ 2600-5600mA Max.(最大电压):Uout 65V ≐ Rated Power(额定功率):200W (BN绿)RD-红 Vo + ○ (BU蓝)BK-黑 Vo - ○ (VT黄)DIM + ○ (PK粉)DIM - ○ *277 for North American only. Suitable for dry,Damp and wet locations No. 1-02, Yongyi Road Three, Yongxing Industry Zone, Henglan Town, Zhongshan City, 528478 Guangdong, China tc:90℃ ta:50℃@Vin100-200V~ ta:60℃@Vin200-277V~ 广东新创电源科技有限公司 GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD CE CB IP67	HVC-200W-56C
SUNCOM HVC-200W-56C (型号)LED控制装置 INPUT 输入端 ○ ACL-(BN绿)BK-黑 ○ ACN-(BU蓝)WH-白 ⊕ (GN绿/YL黄) Vin(输入):100-240V~2.5A 50/60Hz Vin(输入):277V~0.9A 50/60Hz η:≥93% PF:≥0.95 •tc Vout(输出):27-56V ≐ 2600-5600mA Max.(最大电压):Uout 65V ≐ Rated Power(额定功率):200W (BN绿)RD-红 Vo + ○ (BU蓝)BK-黑 Vo - ○ (VT黄)DIM + ○ (BK黑/WH白)12V -/DIM - ○ (PK粉)12V + ○ *277 for North American only. Suitable for dry,Damp and wet locations No. 1-02, Yongyi Road Three, Yongxing Industry Zone, Henglan Town, Zhongshan City, 528478 Guangdong, China tc:90℃ ta:50℃@Vin100-200V~ ta:60℃@Vin200-277V~ 广东新创电源科技有限公司 GUANGDONG SUNCOM POWER TECHNOLOGY CO., LTD CE CB IP67	