

LED 电源规格书 LED Power Supply Specification

CURTOMER / 客户:	
PRODUCT / 产品类型:	LED Power Supply/LED驱动电源
MODEL NO. / 产品型号:	WP-CHA-100B Series
PART NO./物料编号:	

DESIGNED BY / 拟制	CHECKED BY / 审核	APPROVED BY / 批准
Date / 日期:	Date / 日期:	Date / 日期:

CUSTOMER APPROVED SIGNATURES 客户承认签核		
Testing Engineer / 测试工程师	CHECKED BY / 审核	APPROVED BY / 批准
Date / 日期:	Date / 日期:	Date / 日期:
For confirmation, please sign and return this specification to us. 客户确认签字, 盖章后请回传一份承认书给我司.		

1. Electrical / 电气特性

1.1 Input characteristics / 输入特性

Classification / 类别	Subject of entry / 项目	
Input characteristics 输入特性	Rated input voltage / 额定输入电压	120-277/347Vac
	Range input voltage / 电源输入电压范围	108-380Vac
	Input current / 输入电流	<1.05A
	Input frequency / 输入频率	50/60Hz
	Input frequency range / 输入频率范围	47-63Hz
	Turn on delay time / 启动时间	≤500ms
	No-load power consumption / 空载功耗	≤1.5W
	Stand-by power consumption / 待机功耗	≤1.5W
	Inrush current / 浪涌电流	<60A
	Power factor (@80%Load to Full load) / 功率因数	≥0.9
	THD (@80%Load to Full load) / 总谐波失真	≤20%

1.2 Output Characteristics / 输出特性

Constant Current Mode / 定电流模式 (CV测试)

Model No. / 型号	Output Voltage range / 输出电压范围 (V)	Rated Current 额定电流 (mA)	OVP / 过压保护 (V)	Output power (Rated) / 输出功率 (额定) (W)	Efficiency / 效率 (%) (Full load)			Output ripple (peak to peak) 输出纹波 (峰-峰值) ①	Auxiliary Outputs / 辅助输出 12V/200mA Max 配置
					@120Vac	@277Vac	@347Vac		
WP-CHA-100B0501700	30-50	1700	63	85	≥88	≥89	≥89	<1V	Optional / 可选
WP-CHA-100B0501800	30-50	1800	63	90	≥88	≥89	≥89	<1V	
WP-CHA-100B0501900	30-50	1900	63	95	≥88	≥89	≥89	<1V	
WP-CHA-100B0482000	30-48	2000	63	96	≥88	≥89	≥89	<1V	
WP-CHA-100B0462100	30-46	2100	63	96.6	≥87	≥88	≥88	<1V	
WP-CHA-100B0442200	30-44	2200	63	96.8	≥87	≥88	≥88	<1V	
WP-CHA-100B0422300	27-42	2300	63	96.6	≥87	≥88	≥88	<1V	
WP-CHA-100B0402400	27-40	2400	63	96	≥87	≥88	≥88	<1V	
WP-CHA-100B0382550	27-38	2550	63	96.9	≥87	≥88	≥88	<1V	

Note / 注释①

Ripple noise measurement method / 纹波噪声测量方法

10% of nominal output voltage (whichever is greater), measured at 20MHz bandwidth with 0.1uF ceramic capacitor in parallel with 10uF electrolytic capacitor connected at the end of the output connector.

额定输出电压的 10%，测试条件：输出端由 0.1uF 瓷片电容和 10uF 电解电容并联，20M 带宽范围测试。

1.3 protection Characteristics / 保护特性

1.3.1 Short circuit protection / 短路保护

Hiccup/short happened between the output terminals and shall not result in fire and any damage. The power no output, output will auto recover upon removal of over load.

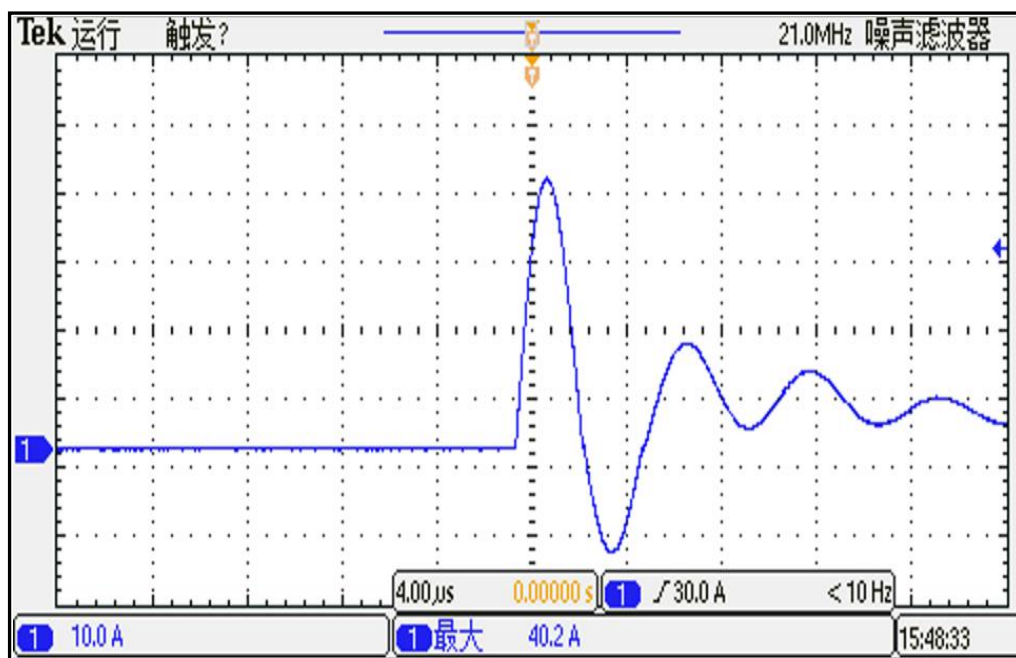
当输出端短路时，产品输入功率降低或无输出且不会损伤，当短路情况解除后，产品将会自动恢复正常。

1.3.2 Other protection / 其他保护

Rely on input fusing.

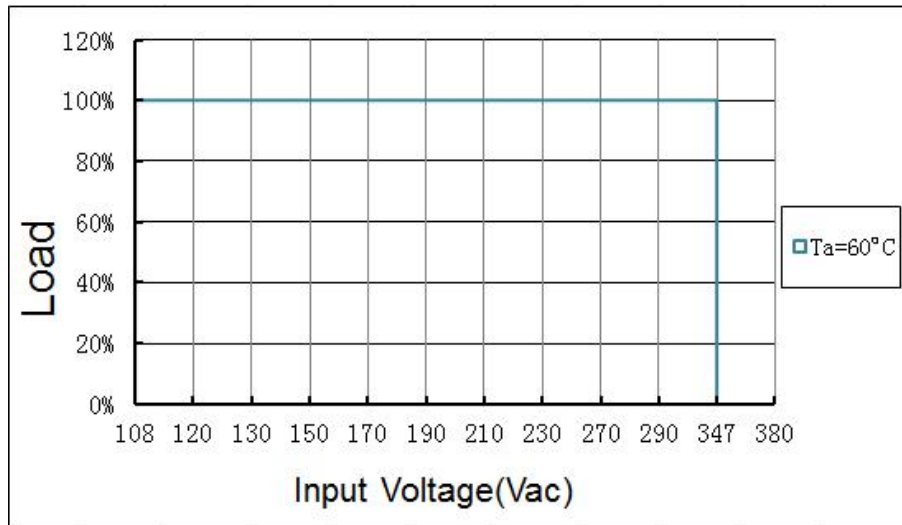
电流保险丝。

1.3.3 Inrush current Waveform/浪涌电流波形



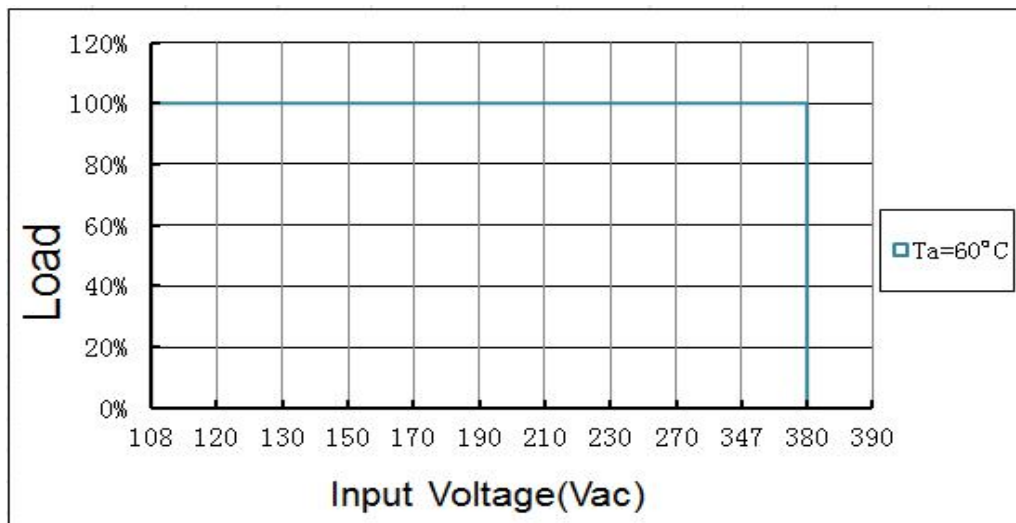
1.3.4 Derating curve/冗余曲线图

	-40°C	-25°C	0°C	25°C	45°C	60°C
120V	100%	100%	100%	100%	100%	100%
277V	100%	100%	100%	100%	100%	100%
347V	100%	100%	100%	100%	100%	100%



1.3.5 Static characteristics/静态特征

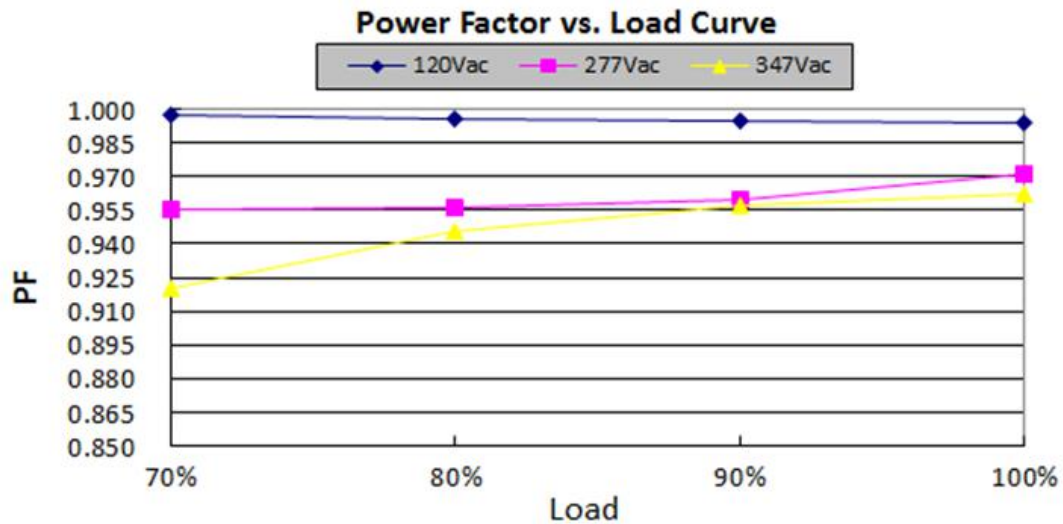
108Vac	120V	220V	240V	277V	347V	380V
100%	100%	100%	100%	100%	100%	100%



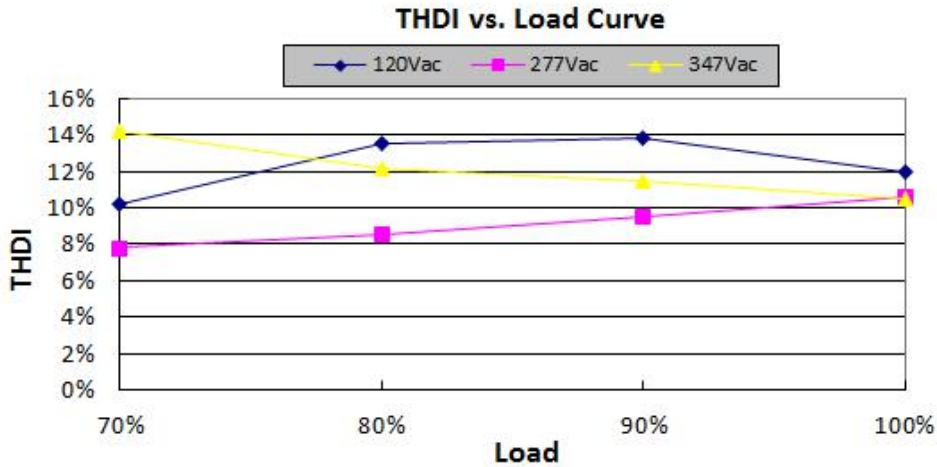
1.3.6 Efficiency VS Load Curve/效率-负载曲线



1.3.7 Power Factor vs. Load Curve/功率因素-负载曲线



1.3.8 THDI vs. Load Curve/总谐波失真-负载曲线

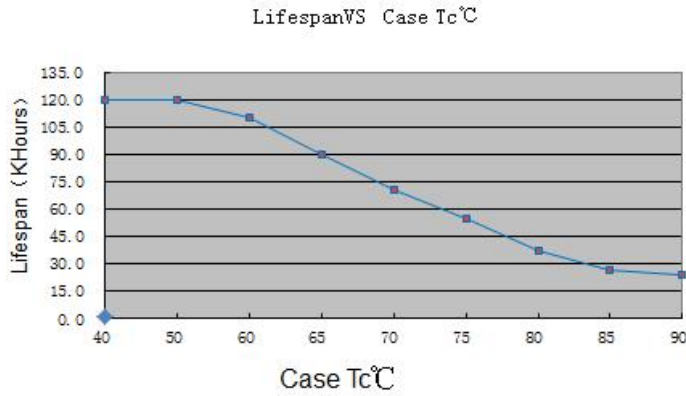


1.4 Environmental/环境系数

Classification/类别	Subject of entry/项目	
Safety&EMC 安规和电磁兼容	Safety Standards / 安规标准	UL8750/CAN/CSA-C22.2 NO. 250.13
	EMC / 电磁兼容	FCC part 15 class B.
Hi-Pot / 耐压	I/P-O/P/输入-输出	1.6KVac,5mA,60S;
	I/P-FG/输入-地	1.5KVac,5mA,60S;
	O/P-FG/输出-地	1.5KVac,5mA,60S;
lightning surge 雷击浪涌	ICE61000-4-5	L-N :4KV L&N-PE:6KV
Insulation Resistance 绝缘阻抗	I/P-O/P; O/P-FG; I/P-FG	100Mohm/500Vdc
Leakage current 漏电流	277Vac input / 277V交流输入漏电流	<0.75mA
Environmental 环境系数	MTBF / 平均间隔故障时间	200,000 hours at 25°C ambient temperature
	Operation temperature / 工作温度	-40 °C to 60 °C
	Humidity / 湿度	10% to 90%
	Storage temperature / 储存温度	-40°C to 85°C
	Protection Class/防护等级	IP65
	Environment rating/环保标准	RoHS
	Case Size/外壳尺寸(L*W*H)mm	L*W*H: 240*43.2*30mm

2. Product life reference diagram/产品寿命参考示图

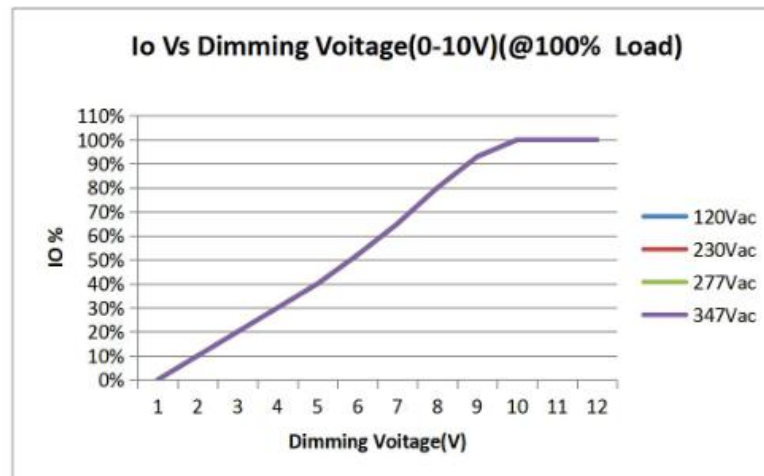
Case Temperature 外壳温度 (tc)	40°C	50°C	60°C	65°C	70°C	75°C	80°C	85°C	90°C
Lifespan/寿命 (KHours)	120	120	110.3	90.3	70.2	47.6	36.8	26.8	23.7



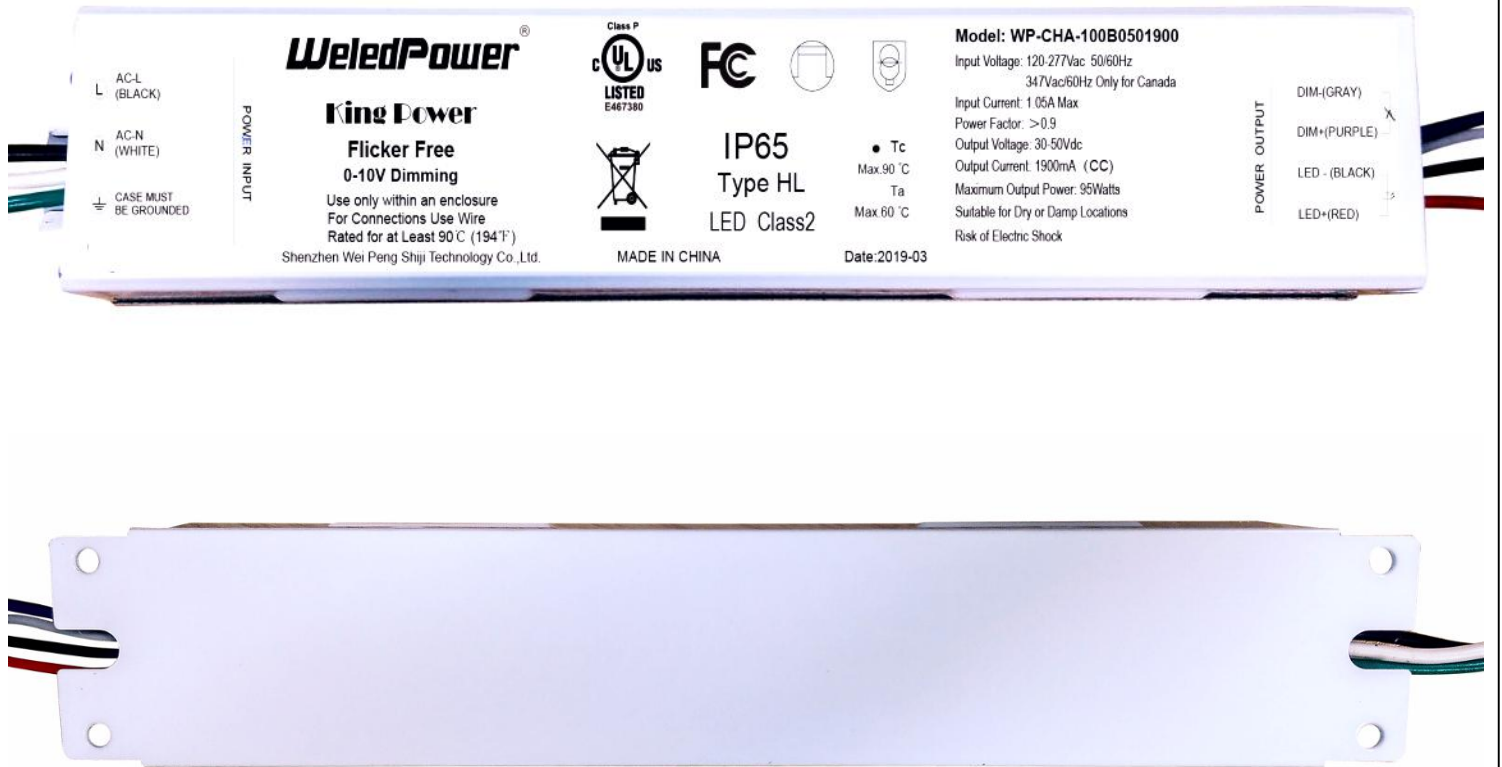
3. Dimming function/调光功能

0-10V Dimming/0-10V 调光; 0-100% dimming scope/调光范围 0-100%

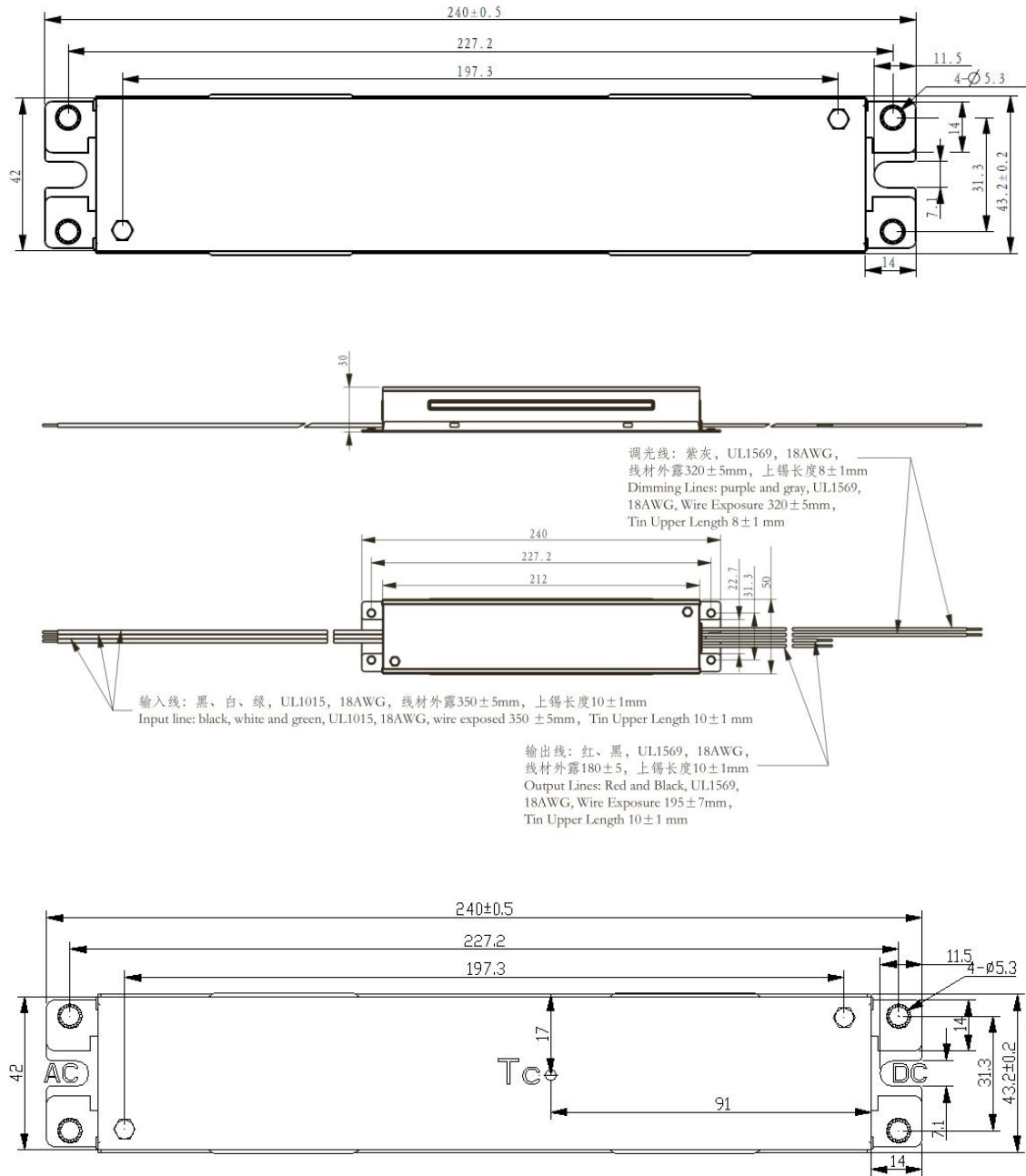
Dimming Voltage 调光电压 (V)	0	1	2	3	4	5	6	7	8	9	10	OPEN
Percentage of rated current 额定电流百分比	0%	0%	9%	20%	30%	40%	53%	65%	81%	95%	100%	95%-105%



4. Enclosure/外观示意图



5. Mounting hole size/安装孔尺寸



6. Label schematic / 标签示意图



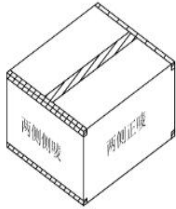
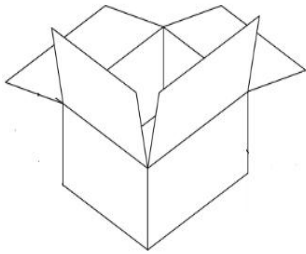
7. Packing/包装

Net Weight/净重: 0.56 kgs/0.56千克

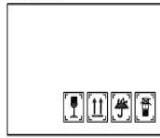
QTY/数量: 32pcs/32个

Carton Dimension/包装尺寸: 420x320x190mm

Net Weight/Gross Weight 净重/毛重: 17.9kgs/19kgs



两侧侧吸



两侧正吸

P/N:	LOT/NO:
QTY:	PCS DATE:
N. W:	KG G. W:
SIZE:	KG

History/历史

NO. 序号	DATE 日期	REVISION 版本号	REMARK 备注	Changer 修改人
1.	2019.1.11	V1.0	初拟定/ First drafting	史伟江/ Weijiang Shi