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一、product standard (产品规格)

1、overview (概述)

801-00373 LX38W 325mA is our company specially designed for the development of LED lights a full voltage range input, separate From the flyback type constant current drive with built-in/External power, the power adopt new circuit design, make the product to provide A high power factor, high efficiency, high reliability, wide range voltage output, low noise, the energy conservation Environmental protection, long life, etc J801-00373 LX38W 325mA 是本公司专为 LED 灯开发的一款窄电压范围输入,非隔离 CCM 模式恒流驱动外置电源, 本电源采用全新的电路设计, 使产品具有高功率因素、高效率、高可靠性、宽范围电压输出、低噪音、节能环保、长寿命等特点。

2、applicable scope (适用范围)

This product is suitable for 38W, output voltage between the power 90-135V (10-15 series, 3 paraells) of LED lights.

本产品适用于 30W-48W, 输出电压介于 90-135V (10-15 串 3 并) 的 LED 灯具。

3、electrical parameters (电气参数)

Testing project 测试项目	Testing condition 测试条件	Scope 范围	Unit 单位	Remark 备注
Input voltage range 输入电压		AC170~264	V	
Normal voltage range 标称输入		AC220	V	
Operating frequency 工作频率	常规	47~63	Hz	
Input current 输入电流	Vin=AC220V	≤0.43	A	
Input power 输入功率	Vin=AC220V	≤35	W	@110V/325mA
Input Fuse 输入保险	绕线电阻	1	欧	
Power factor 功率因素	Vin=AC170V	≥0.6		Pout ≥ 36W
	Vin=AC220V	≥0.55		
Efficiency 效率	Vin=AC170V	≥90%		
	Vin=AC220V	≥93%		
Harmonic current 谐波电流	Vin=AC170V	Not tested	mA	3 次谐波电流
	Vin=AC220V	Not tested	mA	3 次谐波电流
Output voltage 输出电压	Iout=325mA	DC90-135	V	
Output current 输出电流	DC90-135V	325	mA	±5%
Output power 输出功率	AC170-264V	≥35	W	
Short circuit power 短路功耗	AC170-264V	≤1	W	突触发跳动

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No-load power 空载功耗	AC170-264V	≤0.5	W	突触发跳动
No-load voltage 空载电压	AC170-264V	无 OVP		
Ripple 纹波电流	AC170-264V	≤35	mA	
Work mode 工作模式	DC90-135V	恒流模式 325	mA	±5%
Compression 耐压	5mA/60s	/	V	非隔离不做测试
Isolation 绝缘性能	Input To Output 输入对输出	100M Ω min	M Ω	DC500V
LED light for 适用灯串	VF=8.8-9.2V LED	(10-15)串 3 并		

Ripple test matters needing attention: (纹波测试注意事项) :

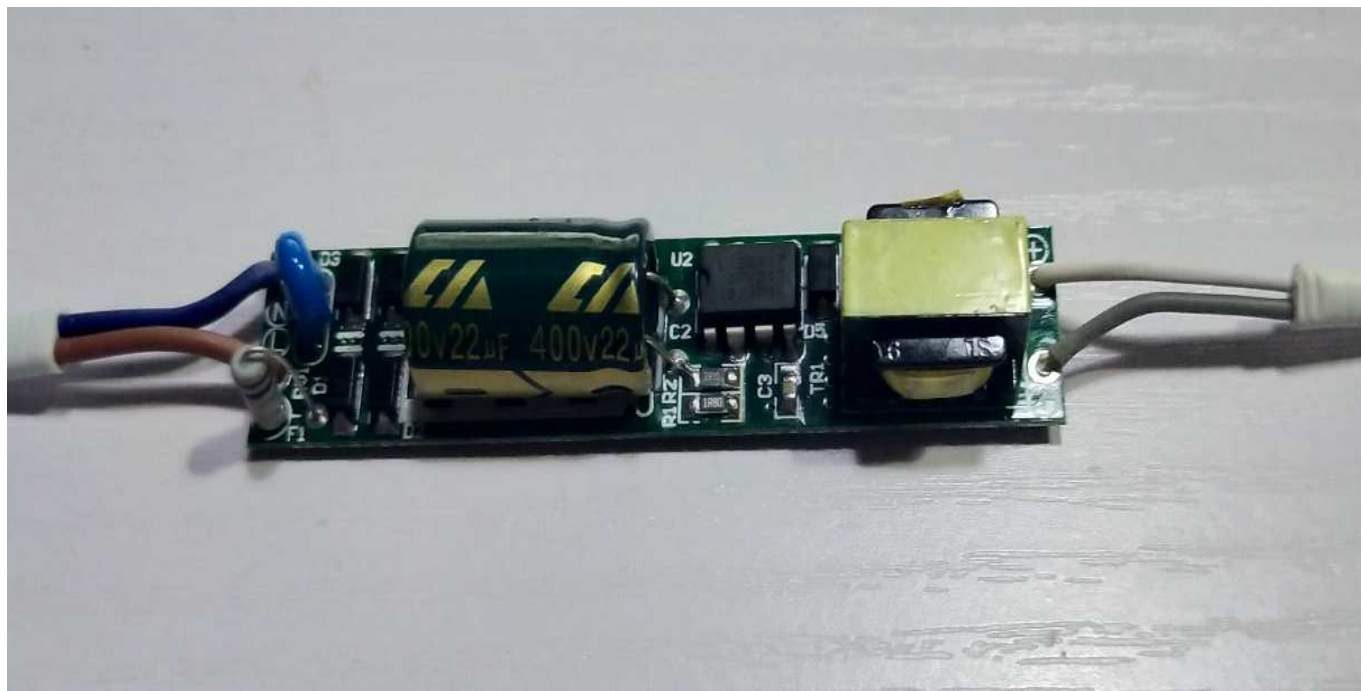
- 1) Measurements shall be made with an oscilloscope with 20MHz bandwidth. 示波器须设置在 20 兆赫兹带宽
- 2) Outputs shall be bypassed at the connector with a 0.1uF ceramic capacitor and a 10uF electrolytic capacitor to simulate system loading. 输出须并联 0.1uF 的陶瓷电容和 10uF 的电解电容来模拟负载

4、roective value (保护性能)

- 4.1、Open protection: when the output when open, input normal input, the product will not damage, and open voltage can't more than ratings. 开路保护: 当输出端开路时, 输入端正常输入, 产品不会损坏,且开路电压不会超过额定值。
- 4.2、Short circuit protection: if the output appears unusual, causes the product of anode and short sub, this product will start short circuit protection function, and not because this abnormality in product permanent damage. 短路保护: 如果输出端出现异常, 造成产品正负极短接, 本产品会启动短路保护功能, 不致因为此异常造成产品永久性损坏。
- 4.3、Overload protection: this product is the constant flow design, the LED lights in the design of the product value VF voltage range, the product output current will be constant; When LED lamp of the design of value over VF voltage range, the product will enter overload protection status. 过载保护: 本产品为恒流设计,LED 灯的 VF 值在产品的设计电压范围内时,此产品的输出电流会恒定不变;当 LED 灯的 VF 值超过所设计的电压范围时,产品会进入过载保护状态。
 - 4.3.1、Output voltage is too low, the power supply will enter frequent start and shut off, at this time will frequently LED twinkle. 输出端电压过低,电源会进入频繁启动和关断, 此时 LED 灯会频繁闪烁。
 - 4.3.2、The output voltage of the too high, this product into the constant pressure to protect state, this time the LED lights on the luminous intensity pronounced weakening, currentis unable to achieve the ratings. 输出端电压过高,本产品进入恒压保护状态,此时 LED 灯的发光强度明显变弱, 电流无法达到额定值。

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5、Dimension 物理尺寸: 73mm*16.3mm*13mm(长*宽*高)



二、Environmental Requirement 环境要求

This part describes the constant current drive power LED to use and storage environment.
这一部分描述了 LED 恒流驱动电源使用和存储环境。

1、Using temperature and humidity 使用温度和湿度

- 1.1、Using temperature range: from 0 °C to 55 °C 使用温度范围: 从 0°C 到 55°C
- 1.2、Use humidity range: from 5 RH % to 95 RH % 使用湿度范围: 从 5RH% 到 95RH%

2、Storage temperature and humidity 存储温度和湿度

- 2.1、Storage temperature range: from -20 °C to 85 °C 存储温度范围: 从 -20°C 到 85°C
- 2.2、Storage humidity range: from 5 RH % to 95 RH % 存储湿度范围: 从 5RH% 到 95RH%

三、认证规范

1、Safety (安全规格)

The power supply shall compliance with the following Criterion: 电源安全性满足下列标准

- 1) *EN61347-2-13,

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2) *TUVEN61347-1

2、EMC (电磁兼容性)

2.1 EMI (电磁干扰)

The power supply shall compliance with the following Criterion: 电源电磁干扰满足下列规则:

2.1.1 Conduction Emission : (传导干扰度) 1) *EN55015 2) *GB17743

2.1.2 Radiated Emission : (辐射干扰度) 1) *EN55015 2) *GB17743

2.2 EMS (电磁抗扰)

The power supply shall compliance with the following Criterion: 电源电磁抗扰满足下列规则:

2.2.1 EMS (电磁抗扰) 1) *EN61547 2) *GB18595

2.2.2 harmonic (谐波) 1) *EN61000-3-2 2) *GB17625.1

2.2.3 Surge (闪灯) 1) *EN61000-3-3 2) *GB17625.2

2.2.4 ESD(静电抗扰度) 1) *EN61000-4-2 2) *GB17626-2

2.2.5 EFT(脉冲群抗扰度) 1) *EN61000-4-4 2) *GB17626-4

2.2.6 Ssurge(浪涌雷击测试) 1) *EN61000-4-5 2) *GB17626-5

2.2.7 电压跌落与中断 1) *EN61000-4-11 2) *GB17626-11

2.2.8 耐压测试 爬电距离 电气间隙

1) *IEC/EN60968-1.2004+A1: 2006 2) *IEC/EN60968-2-1:1989

****规格书为通用版格式，考虑产品是否有做安规认证，以实物产品并提供安规报告为准！否则不代表此规格书对应的产品达到上述安规标准****

四、product appearance figure (产品外观图)

外观尺寸: 156.5mm*22.5mm*16.5mm(长*宽*高)



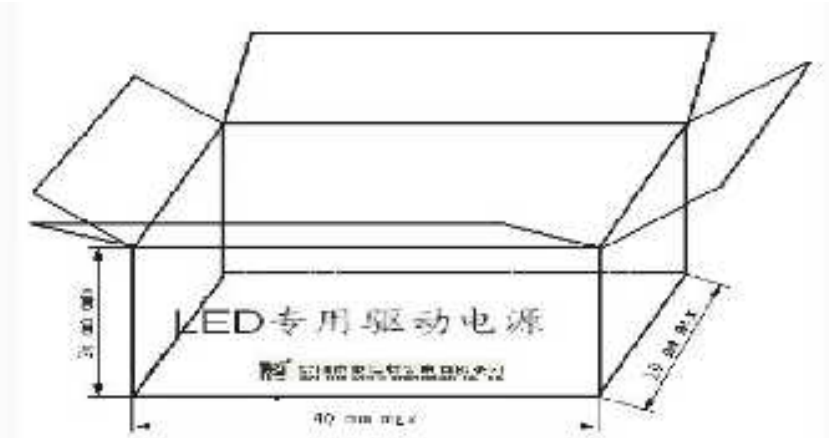
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五、Weight 重量

110g/PCS* (TYP REF) 110 克/每个 (典型参考值)

六、hipment and package (出货包装)

1、The package delivery size (unit: mm) 出货外包装箱尺寸 (单位: mm)



Our company products with built-in unified clamshell placed packaging, each box by 10 absorb plastic plate composition, each absorb plastic plate unit and a power supply, top and bottom of the wooden case with mat clapboard and sponge isolation, each box device 1000PCS power, and by using the our company special LED drive power delivery device.

本公司内置产品统一采用吸塑放置包装，每箱由 10 个吸塑盘组成，每个吸塑盘装置 100 个电源，包装箱的顶部与底部用垫隔板和海绵隔离，每箱装置 1000 个电源，并采用本公司专用 LED 驱动电源箱装置出货。

2、Absorb plastic plate appearance figure 吸塑盘外观图:



****规格书为通用版格式，一般内置电源才用到吸塑盒包装，外置电源无需吸塑盒包装，实际以产品实物包装为准！否则不代表此规格书对应的产品都是这种包装方式****

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七、statement (声明)

1, pictures and specifications for reference only, pictures in kind prevail, specifications are subject to change, prior notice.

2, the company products according to the delivery sealed samples shall prevail, if not sealed samples, we will press on a group of shipment inspection standard. Production of shipment.

3, the company by the product of Test period for five days, five days if there is no written puts forward problems bad, Our company as a qualified, the subsequent will enter the warranty period.

4, Under the normal working Temp.& environment Continuous working time should be less than 2000H, the life time can be reached more than 2years.

1、图片与规格仅供参考，图片以实物为准，规格如有变化，另行通知。

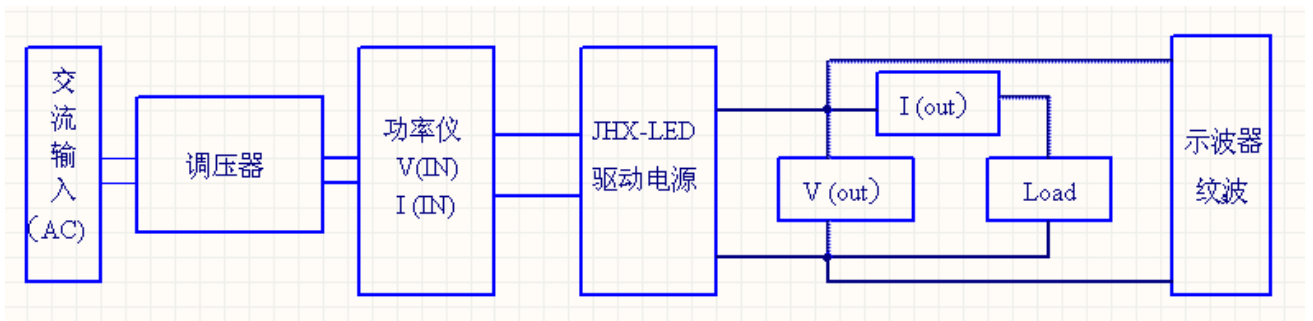
2、本公司产品出货按双方封样为准，如未封样，我司将按上一批出货标准检测.生产出货。

3、本公司所出产品的检验期为5个工作日，5个工作日内如无书面提出不良问题，本公司视为合格，后续将进入保用期。

4、在正常工作和常温环境下，连续工作时间不超过2000小时，本产品的使用寿命累计可达2年或以上。

八、Product testing structure (产品测试结构图)

1、testing schematic diagram 测试原理图:



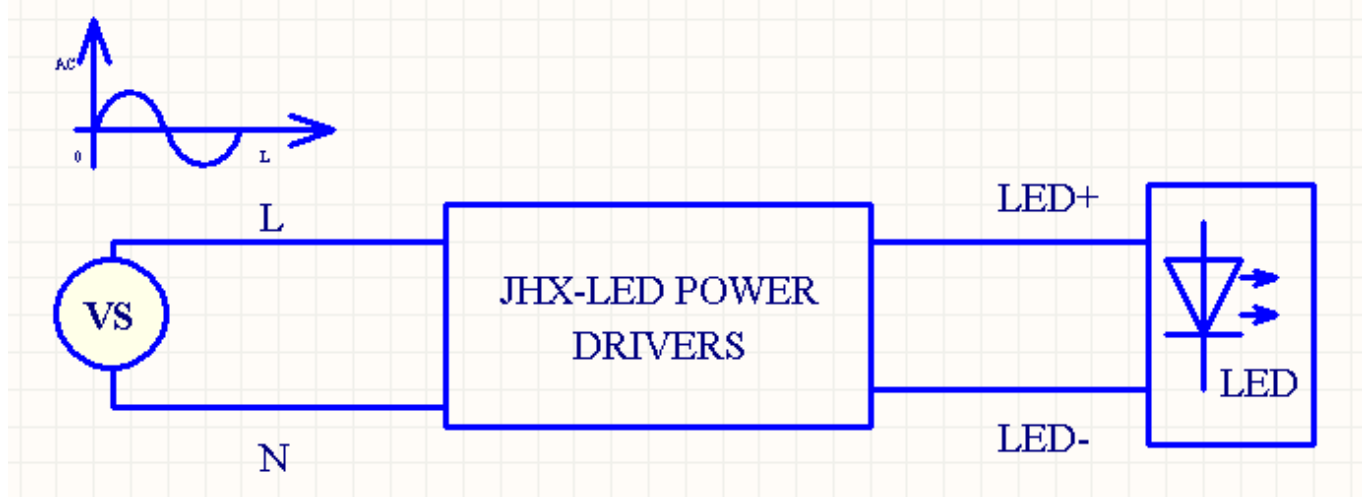
2、product interface diagram 接口图示:

This product has two connection port. 'AC-L' and 'AC-N' for product AC input terminals. Used to meet in AC AC input (input 90-265 V / 47 Hz-63 Hz alternating current) for another marked 'LED +' and 'LED-' ports used to pick up the lamps and lanterns of LED, specific the wiring diagram is as follows:

本产品有两个接线端口。'AC-L'与'AC-N'为产品的AC输入端子.用于接在交流AC输入端（输入90

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-265V/47Hz-63Hz 交流电) 另为标有 'LED+'与' LED-' 的端口用于接 LED 的灯具.具体接线图如下:



3、product precautions 产品使用注意事项:

3.1, in the device the power supply, please pay attention to the correct installation of input, output, confirms to the rear can electrify.

3.2, in order to avoid LED burn out, please take good DC output terminal open again power supply.

3.3, in the use of the products please pay attention to high pressure safety, and completes the shock measures to avoid when installation and metal case short circuit, and don't force or throw the power on extrusion of components, or in the set of casing please don't use too much about the long time at a point in heating.

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3.4, power in the first time when a current good device, such as a bright lights or signal, please promptly ac power supply, and check input exchange or the output is bad contacts or overload or short circuit and remove the faults can, if there is a bright or dim light, please promptly ac power supply, and inspection of the parameters are needed to get LED anastomosis and remove the faults can.

3.5, good electrical connections in the device, LED light but a flickering or WeiLiang, please check the power supply output terminal for contact undesirable or appears light load. Overload.

3.6, as in use process in time if you have any questions please contact with our company technical support, and feedback unhealthy phenomenon, my company will have professional technical staff of the service you.

3.1、在装置电源时，请注意输入、输出端的正确安装，确认无误后方可通电。

3.2、为了避免 LED 烧坏，请先接好 DC 输出端再开电源。

3.3、在使用本产品时请注意高压安全，并做好防电击措施，安装时避免与金属外壳短路，同时不要强行挤压或扳动本电源上的元器件，或在套套管时请不要用过高的风筒长时间在一个点上加温。

3.4、电源在第一次装置好通电时，如出现灯不亮或灯闪时，请及时切断交流供电，并检查输入交流或输出端是否接触不良或过载或短路，排除故障即可，如出现灯过亮或暗淡时，请及时切断交流供电，并检验所接用的 LED 所需参数是否吻合，排除故障即可。

3.5、在装置好电气连接后，LED 灯亮但有闪烁或微亮，请检查电源输出端有无接触不良或出现轻载，过载。

3.6、如在使用过程中如有疑问请及时与本公司技术支持联系，同时反馈不良现象，我公司将有专业的技术人员全程为您服务。

九、Related test data (相关测试数据)

1、input characteristics curve (输入特性曲线图)

input voltage and current relation curve (输入电压与电流关系曲线图)

input voltage and power factor curve (输入电压与功率因素曲线图)

input voltage and efficiency relation curve (输入电压与效率关系曲线图)

input voltage and overtone relation curve (输入电压与谐波关系曲线图)

2、output characteristics curve (输出特性曲线图)

Output voltage and current relation curve (输出电压与电流关系曲线图)

Output power and power factor curve (输出功率与功率因数曲线图)

Output power and efficiency relation curve (输出功率与效率关系曲线图)

Output power and overtone relation curve (输出功率与谐波关系曲线图)

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	<p>DocumentNo. : 801-00373</p>	<p>V1.0</p>

- 3、output ripple (输出纹波)
- 4、boot rise time (开机上升时间)
- 5、shutdown decrease time (关机下降时间)

十、product key waveforms (产品关键波形)

- 1、MOSFET waveforms (MOS 管波形)
- 2、MOSFET source waveforms or waveform across the resistor CS(MOS 管源极波形或 CS 电阻波形)
- 3、diode reverse voltage waveforms (二极管反向耐压波形)

十一、product warming report (产品温升报告)

- 1、MOSFET warming report (MOS 管温升报告)
- 2、diode warming report (二极管温升报告)
- 3、transformer warming report (变压器温升报告)

NOTE:(Number:九~十一 Please consult our technical department for detail information

第九至十一项目详细信息请咨询我们的技术部门)

十二、主要元器件清单

物料清单项目多，需要 BOM 清单再另行提供。

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