

(√) Preliminary Specification
() Final Specification

BACKLIGHT SPECIFICATION

Product's Name: [LED315E](#)
Customer's Model NO:

For Customer's Acceptance Customer's Name:	
Approved by	Comment

Approved by	Checked by	Designed by
		Elvin.Tan

Please return to us one original of "BACKLIGHT Specification" with your approved signatures.

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Record of Revision

Version NO.	Revise Date	Page	Description
0.0	2016/08/18	-	Preliminary Specification(First Draft)

1. General Description

1.1 Overview

This specification applies to Guangzhou CEJZ Technology Co.,Ltd, CEJZ315L06E1 backlight module of the whole machine.

1.2 Available OpenCell Ass'y

No.	Manufacturer	Model	Specifications	Transmition	Remarks
1	LG	LC320EIJ-FFE2	FHD		
2	AUO	T320HVN05. 6	FHD		
3	BOE	HV320WHB-N80	FHD		
4	BOE	HV320FHB-N00	FHD		
5	BOE	MV315QHB-N10	QHD		
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The above information is only for reference, please take the material as the standard.					

2 .BACKLIGHT Configuration

2.1 Factory Standard Configuration (中电捷智标准配置)

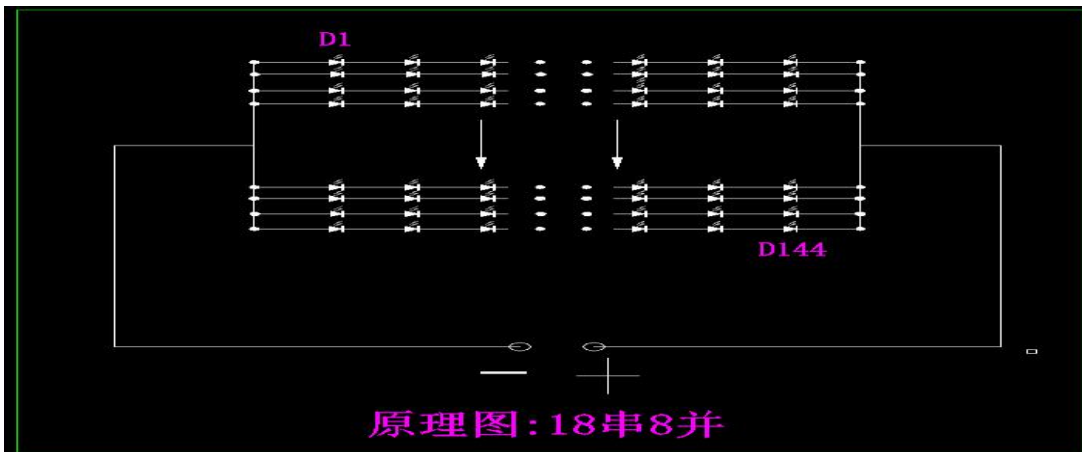
标准配置方案: 8*18 (4014 60mA) + 两扩一增

2.1.1 BACKLIGHT Electric Parameter(背光电气参数)

Parameter	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
BLU Voltage	U	52.2	--	61.2	V	
BLU Power	P		27	--	W	IL =480mA
BLU Current	I	--	480	--	mA	
BLU lifetime	T	50000			h	(1)

Note (1) The lifetime is defined as the time which luminance of the LED decays to 50% compared to the initial value, Operating condition: Continuous operating at Ta = 25±2°C, IL =480mA

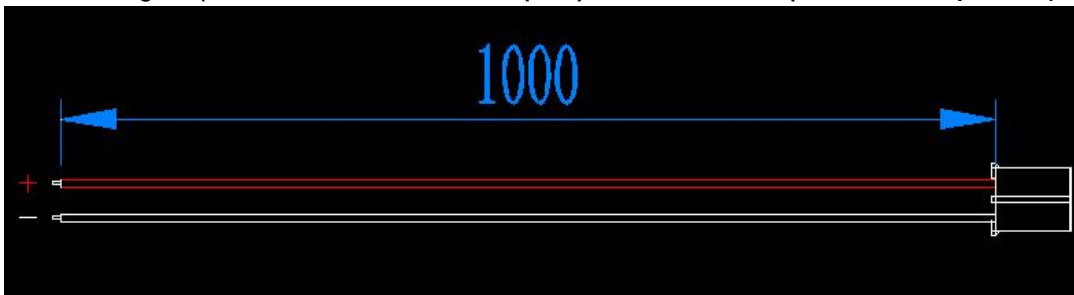
2.1.2 BACK LIGHT Electrical Circuit (背光电路)



PER LED light bar circuit is(8)Parallel (18)Series, Backlight circuit is(8)Parallel (18)Series

2.1.3 Backlight UNIT Connector Definition (背光接口)

Backlight Input connector model: PHR-2(JST) PITCH2.0mm *2 (一路 PH2.0 2pin 插头)

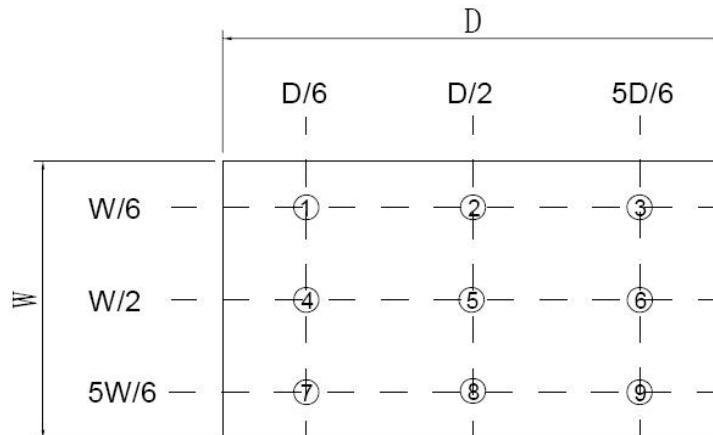


2.1.4 BACKLIGHT Optical Characteristics (背光光学参数)

项目	符号	最小值	典型值	最大值	单位	测试条件
电压	Vf	52.2	—	61.2	V	If= 480mA
电流	Ir	—	480	528	mA	
中心点亮度	Lv	—	5500	—	cd/m ²	If= 480mA
均匀性	U	—	75	—	%	
色坐标	X	0.225	0.255	0.385		IF=480mA Ta=25°C Each chip
	Y	0.200	0.220	0.250		

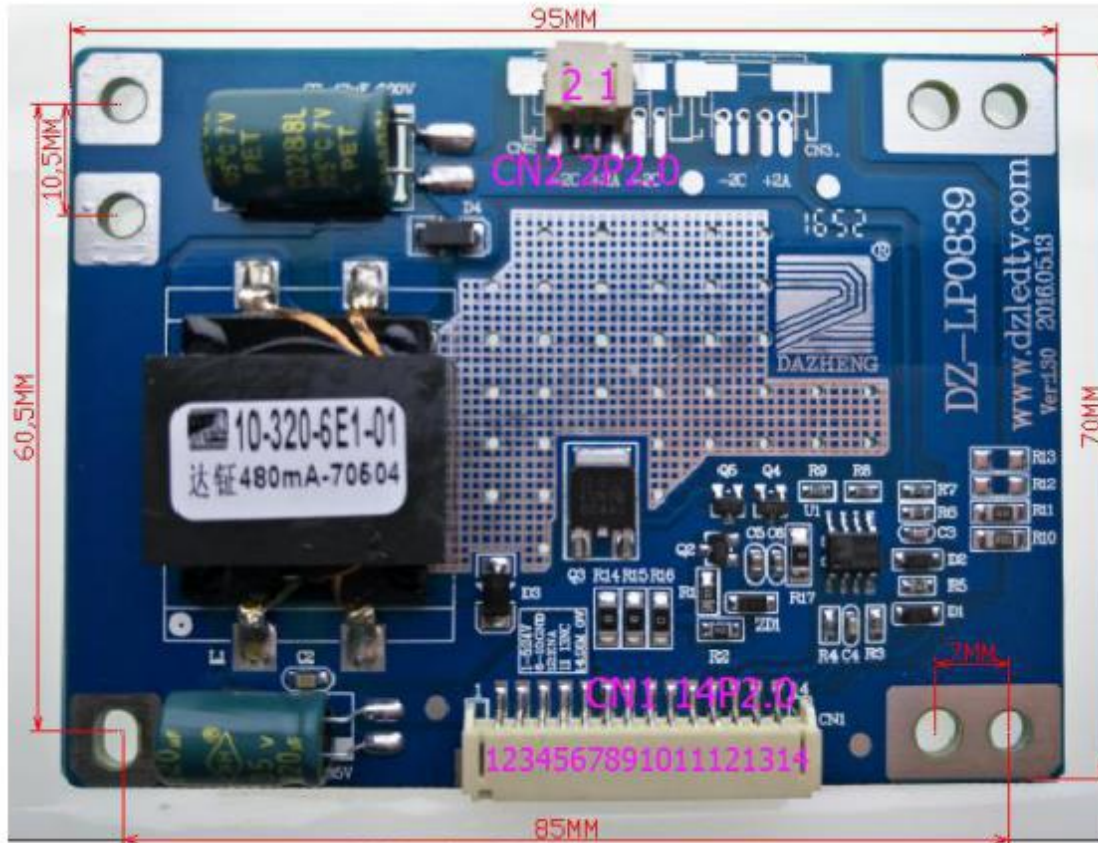
- 注 1: 测试条件: 1) 时间: 点亮 5 分钟后;
 2) 测试环境: 暗室 (10Lux 以下)
 3) 辉度、色坐标测试点: 见下图
 4) 光学特性测试点图

注 2: 均匀性 $\Delta I = (I_{MIN} \div I_{MAX}) \times 100\%$



以上亮度及均齐度值均以中电捷智公司色彩分析仪器机台测试为准

2.1.5 Mechanical Dimension / 结构示意图



CN1 14P2.0: 电源输入口

1~5 脚为电源输入 +24V

6~10 脚为电源输入 -24V (GND)

11 脚 NC 空、13 脚为空

CN2 2P2.0: 灯条输出接口

1 脚为 LED 输出正极

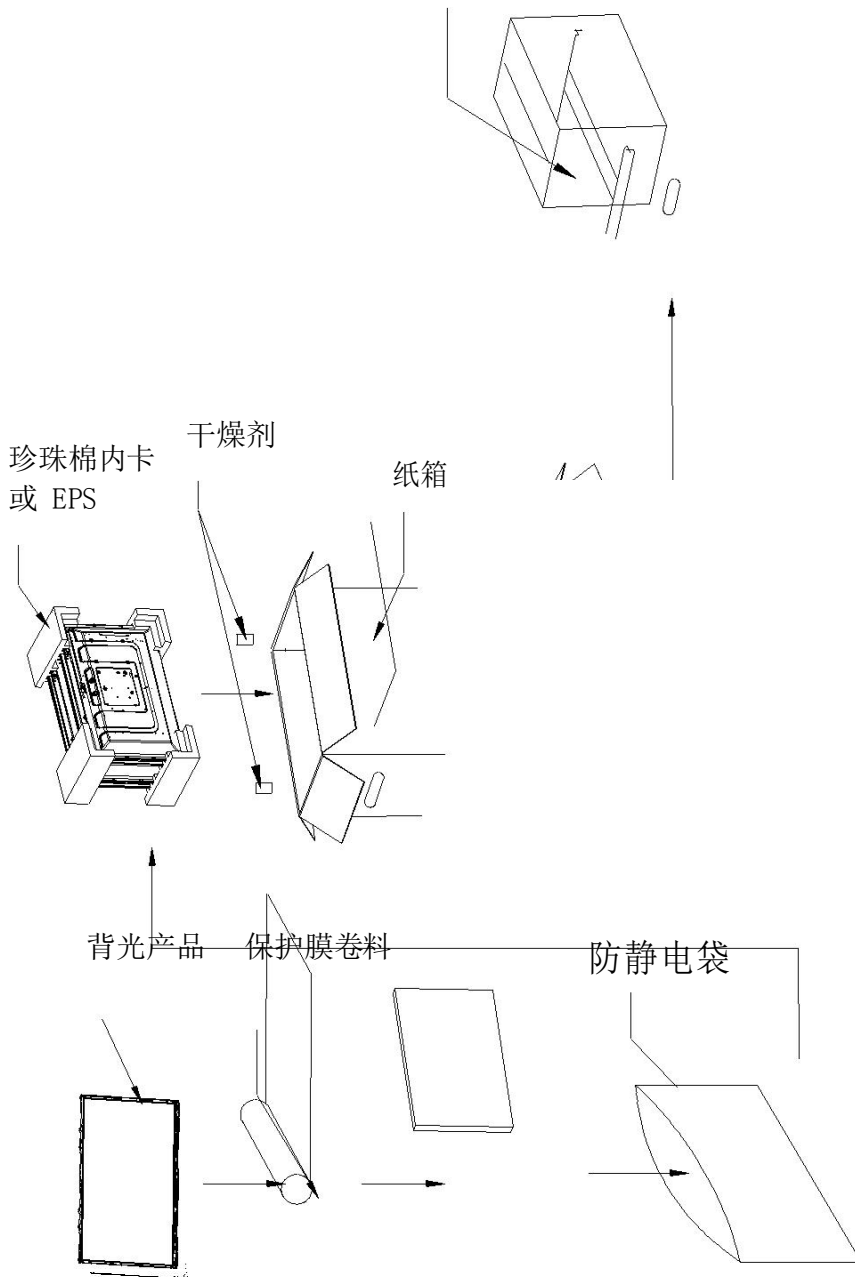
2 脚为 LED 负极

3. Reliability Test

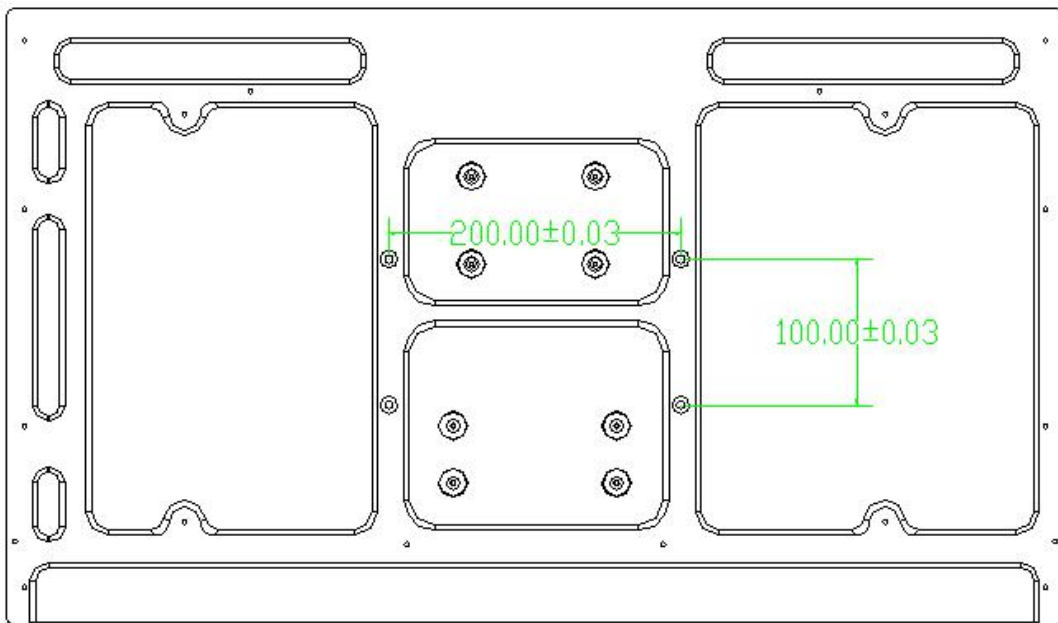
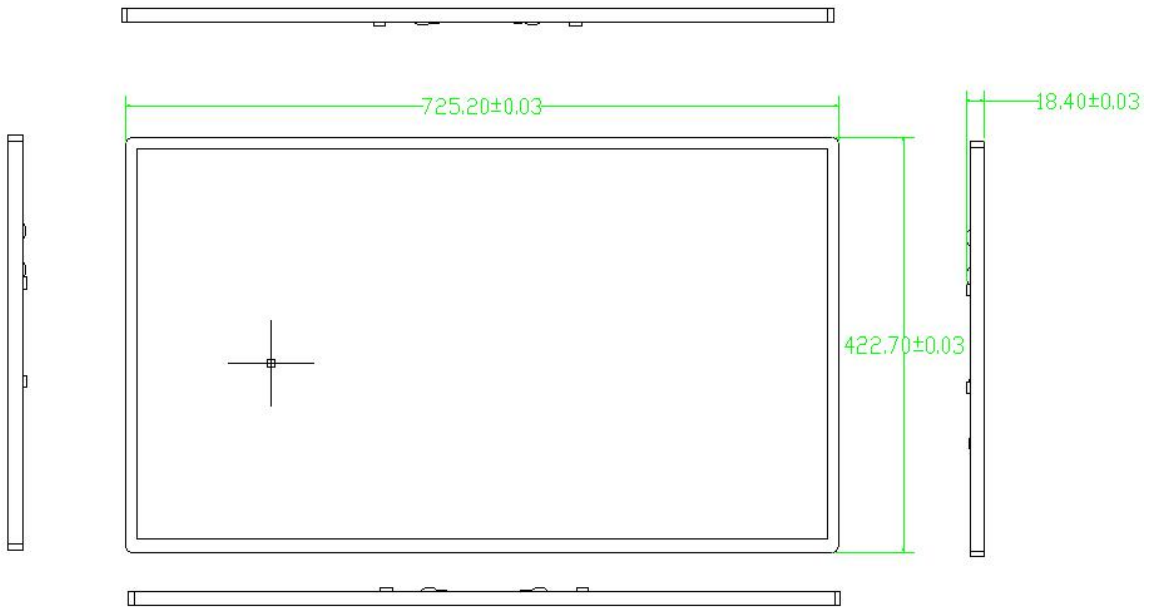
	Test Item	Q'ty	Condition
1	High temperature storage test	3	60°C,300hrs
2	Low temperature storage test	3	-20°C,300hrs
3	High temperature operation test	3	50°C,300hrs
4	Low temperature operation test	3	-5°C,300hrs
5	Drop test (With carton)	3	Height: 50cm 1 corner, 3 edges, 6 surfaces (ASTMD4169-I)

4. Package Specification

6PCS/箱



5.Mechanical Drawing



6. Impression Drawing

