
(√) Preliminary Specification
() Final Specification

BACKLIGHT SPECIFICATION

Product's Name: DLED55A
Customer's Model NO:

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

Approved by	Checked by	Designed by

CONTENTS

RECORD HISTORY	-----3
1. General Description	-----4
1.1 Overview	
1.2 Available OpenCell Ass'y	
2. BACKLIGHT Configuration	-----6
2.1 Factory Standard Configuration	
2.2 Other available configurations	
3. Reliability Test	-----6
4. Package Specification	-----7
5. Mechanical Drawing	-----8
6. Impression Drawing	-----9

Record of Revision

Version NO.	Revise Date	Page	Description
0.0	2016/ 03/ 20	-	Preliminary Specification(First Draft)

1. General Description

1.1 Overview

This specification applies to
of the whole machine.

Technology Co.,Ltd, 550L05A1 backlight module

1.2 Available OpenCell Ass'y

No.	Manufacturer	Model	Specifications	Transmition	Remarks
1	LG	LC550EQJ-SGE2	FHD		
2	LG	LC550EGY-SGM1	FHD		
3	CSOT	ST5461D01-1	UHD		
4	AUO	T550HVN08.1	UHD		
5	BOE	HV550WU2-200	FHD		
6	BOE	HV550WU2-202	UHD		
7	CSOT	ST5461D01-3	UHD		
8	SUNGSANG	LSJ550HN02-W	FHD		
9	BOE	HV320WX2-281	HD		
10	BOE	HV320WHB-N00	HD		
11	BOE	HV320FHB-N00	FHD		
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24					
The above information is only for reference, please take the material as the standard.					

2 .BACKLIGHT Configuration

2.1 Factory Standard Configuration

标准配置方案: 6*13 + 一增一扩

2.1.1 BACKLIGHT Electric Parameter(背光电气参数)

Parameter	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
BLU Voltage	U	54	117	130	V	IL =660mA
BLU Power	P		18	--	W	IL =660mA
BLU Current	I	--	600	660	mA	
BLU lifetime	T	30000			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 $T_a = 25 \pm 2^\circ\text{C}$, $I_L = 330\text{mA}$

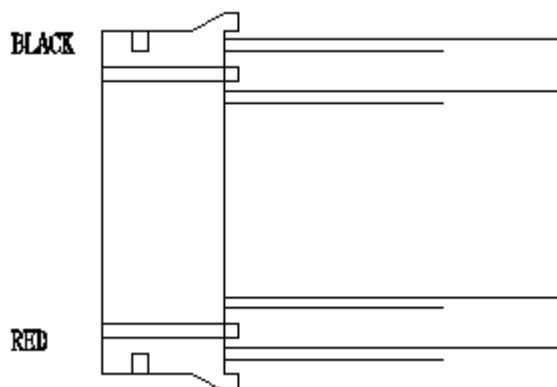
2.1.2 BACK LIGHT Electrical Circuit (背光电路)



PER LED light bar circuit is(1)Parallel (6)Series, Backlight circuit is(2)Parallel (39)Series

2.1.3 Backlight UNIT Connector Definition (背光接口)

Backlight Input connector model: PHR-6(JST) PITCH2.0mm *1 (一路 PH2.0 6pin 插头)

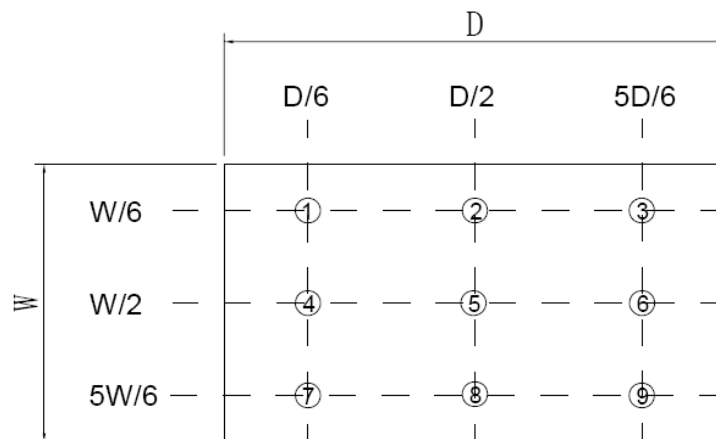


2.1.4 BACKLIGHT Optical Characteristics (背光光学参数)

项目	符号	最小值	典型值	最大值	单位	测试条件
电压	Vf	117	--	113	V	If= 660mA
电流	Ir	--	600	660	mA	If= 660mA
中心点亮度	Lv	--	5500	--	cd/m ²	If= 660mA
均匀性	U	--	65	--	%	
色坐标	X	0.225	0.255	0.385		If=660mA Ta=25℃ 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 $\Delta I = (I_{\min} \div I_{\max}) \times 100\%$

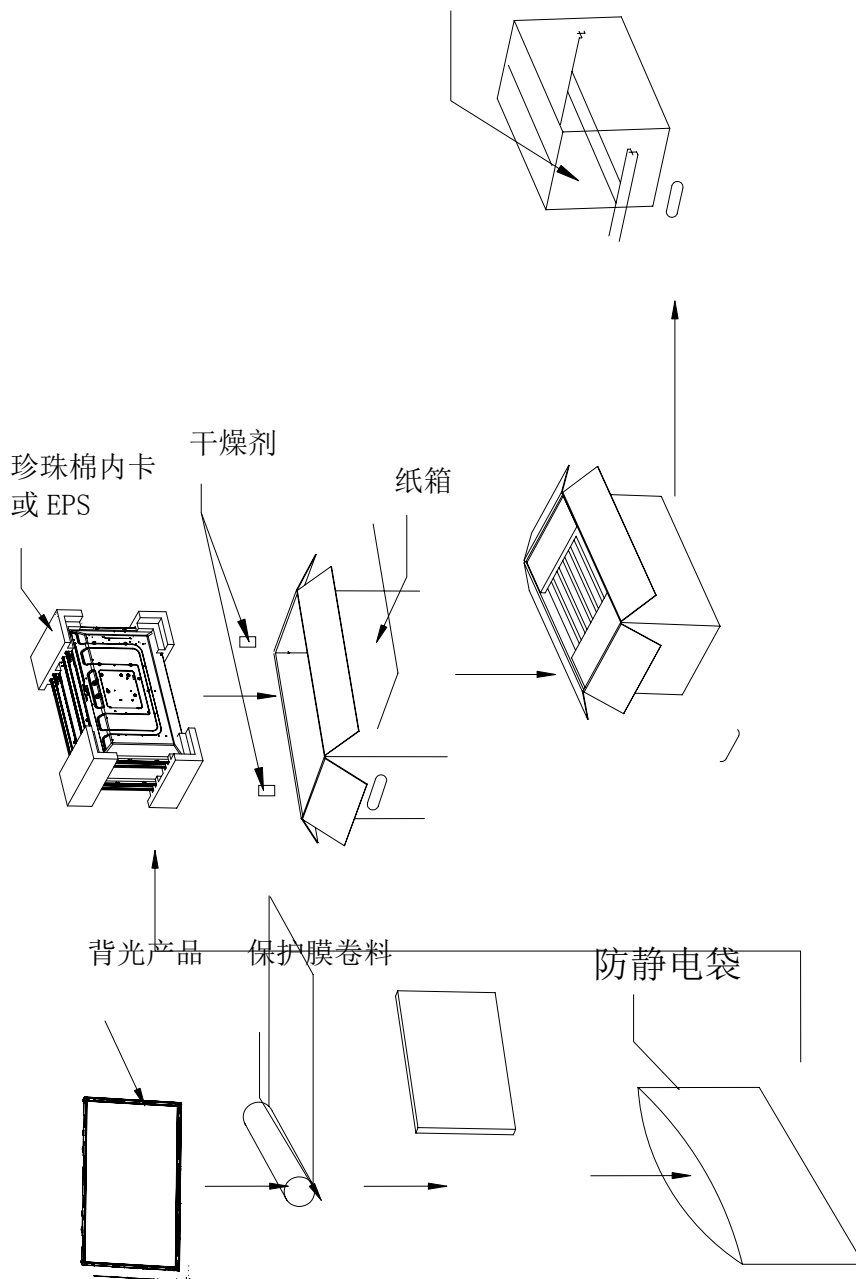


3. Reliability Test

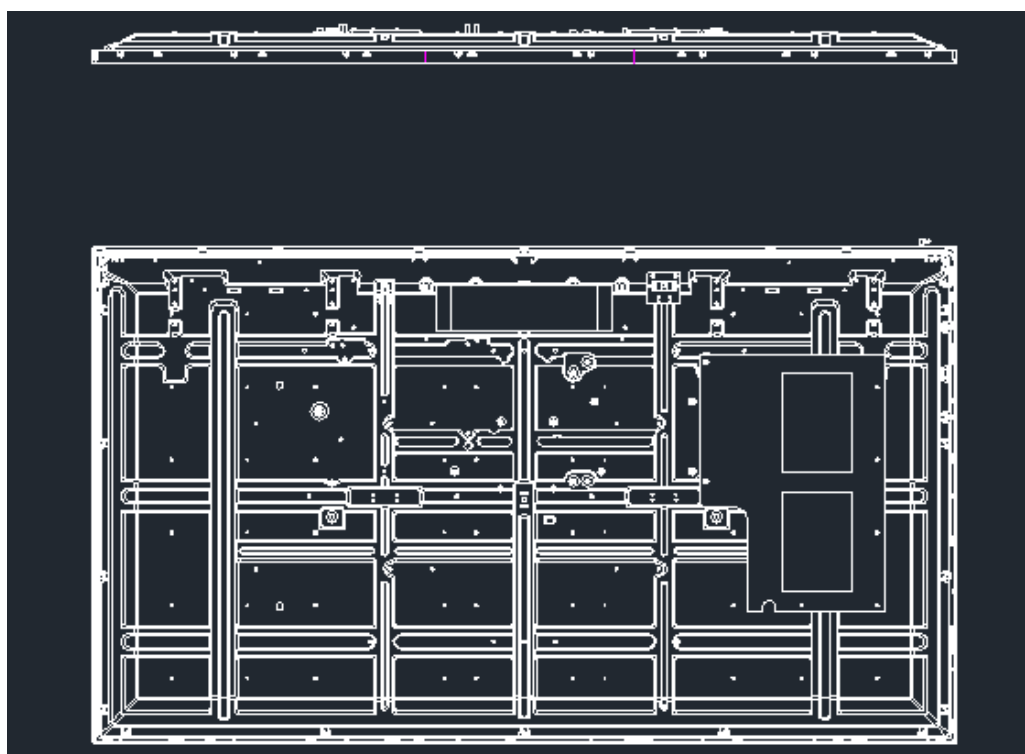
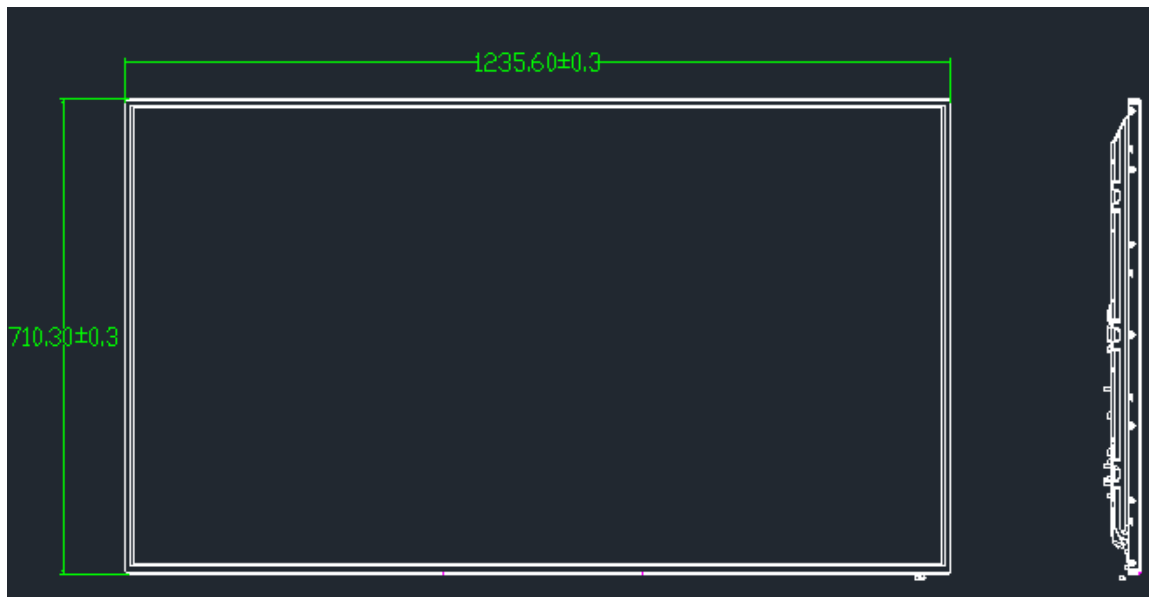
	Test Item	Q'ty	Condition
1	High temperature storage test	3	60℃,300hrs
2	Low temperature storage test	3	-20℃,300hrs
3	High temperature operation test	3	50℃,300hrs
4	Low temperature operation test	3	-5℃,300hrs
5	Drop test (With carton)	3	Height: 50cm 1 corner, 3 edges, 6 surfaces (ASTMD4169-I)

4. Package Specification

1 个纸箱装满共 6PCS 产品



5.Mechanical Drawing



6. Impression Drawing