
(√) Preliminary Specification
() Final Specification

BACKLIGHT SPECIFICATION

Product's Name: DLED50A
Customer's Model NO:

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

Approved by	Checked by	Designed by

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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 500L05A1 backlight module

1.2 Available OpenCell Ass'y

No.	Manufacturer	Model	Specifications	Transmition	Remarks
1	CMI	V500HJ1-PE1	UHD		
2	CMI	V500HJ1-P01	FHD		
3	CMI	V500HJ2-PE1	FHD		
4	CMI	V500HK1-PD1	FHD		
5	CMI	V500HK1-PS1	FHD		
6	CMI	V500HK1-PS5	UHD		
7	CMI	V500HK1-PS6	UHD		
8	CMI	V500HK2-PS1	FHD		
9	AUO	T500HVN04. 1	FHD		
10	AUO	T500HVN08	HD		
11	AUO	T500HVD01. 0	FHD		
12	AUO	T500HVN04. 0	FHD		
13	CMI	V500DK2-PS1	FHD		
14	CMI	V500HJ1-PE8	FHD		
15	CMI	V500DK2-QS1	FHD		
16	CMI	V500HJ1-PE6	FHD		
17	CMI	V500HJ3-PE1	FHD		
18	AUO	T500HVN07V1	FHD		
19	CMI	V500DK3-QS1	FHD		
20	AUO	T500HVN09	FHD		
21	LG	LC500DUJ-SGE2	FHD		
22	AUO	T500QVN01	FHD		
23	AUO	T500HVN08. 8	FHD		
24	AUO	T500HVN07. 5	FHD		
25	CMI	V500HK3-PS1	FHD		
26	CMI	V500HK1-PE6	FHD		

The above information is only for reference, please take the material as the standard.

2 .BACKLIGHT Configuration

2.1 Factory Standard Configuration

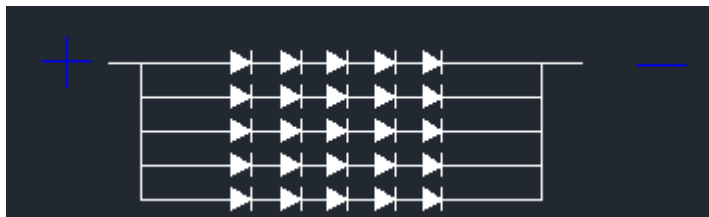
标准配置方案: 5*10 + 一增一扩

2.1.1 BACKLIGHT Electric Parameter(背光电气参数)

Parameter	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
BLU Voltage	U	75	-	85	V	IL =660mA
BLU Power	P		50	--	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 $T_a = 25 \pm 2^\circ\text{C}$, $I_L = 330\text{mA}$

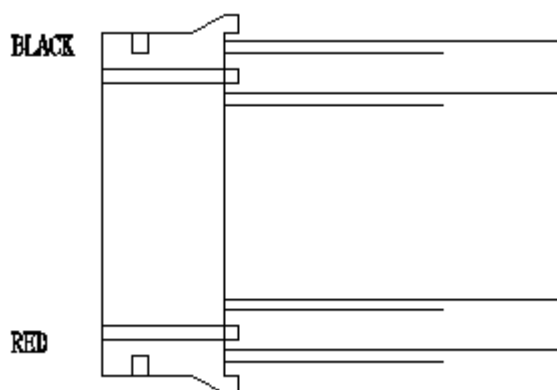
2.1.2 BACK LIGHT Electrical Circuit (背光电路)



PER LED light bar circuit is(1)Parallel (5)Series, Backlight circuit is(2)Parallel (25)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)**

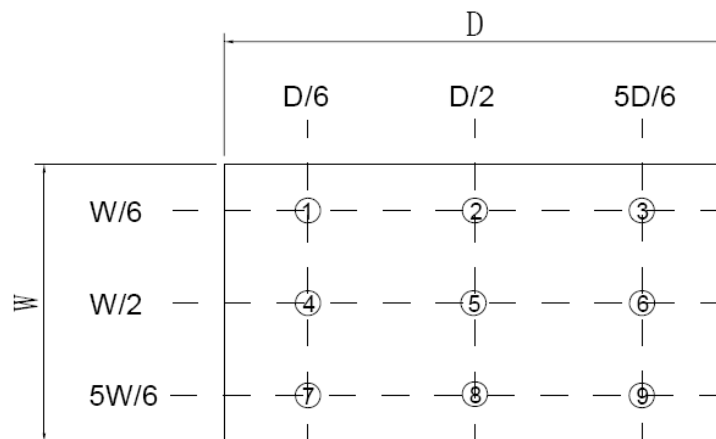


2.1.4 BACKLIGHT Optical Characteristics (背光光学参数)

项目	符号	最小值	典型值	最大值	单位	测试条件
电压	Vf	78	--	85	V	If= 660mA
电流	Ir	--	600	660	mA	If= 660mA
中心点亮度	Lv	--	5000	--	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 $\Delta I = (I_{\min} \div I_{\max}) \times 100\%$

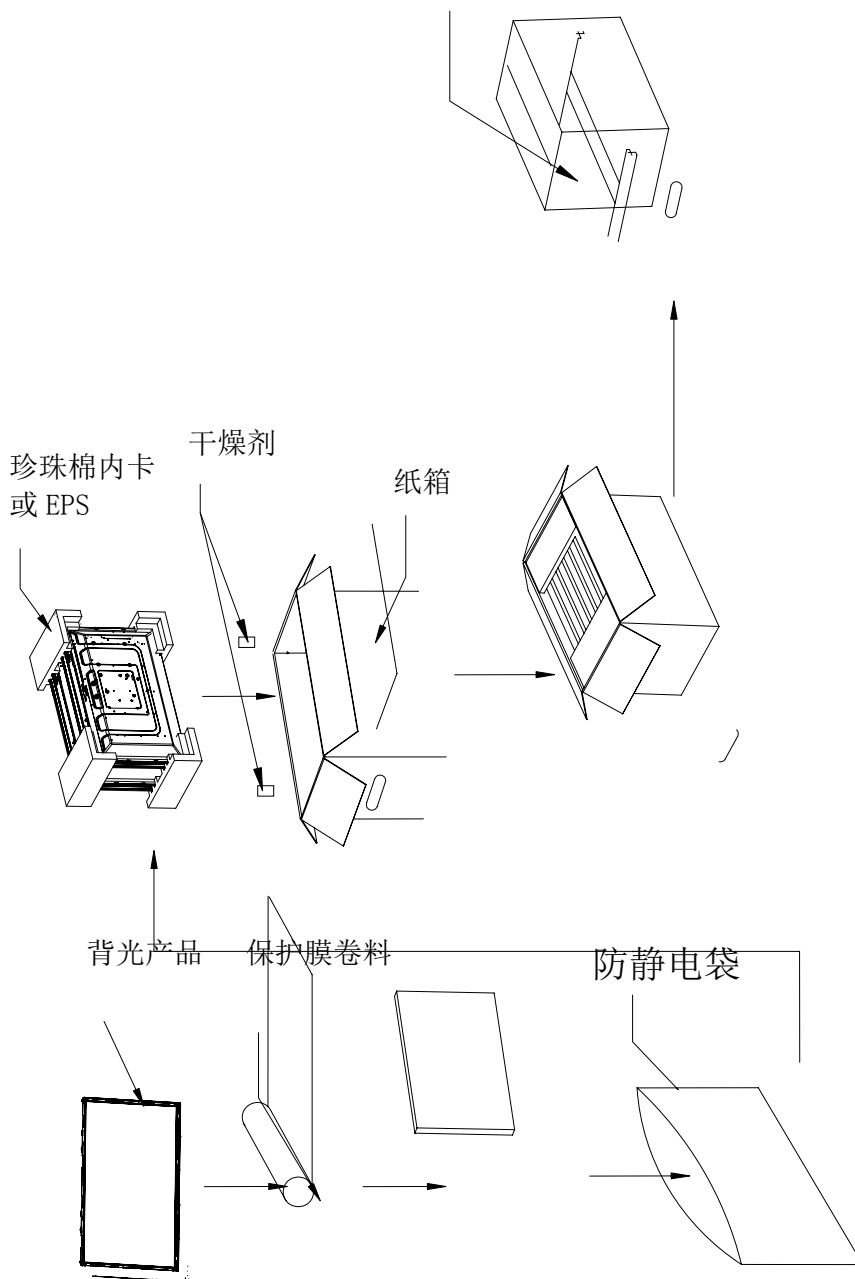


3. Reliability Test

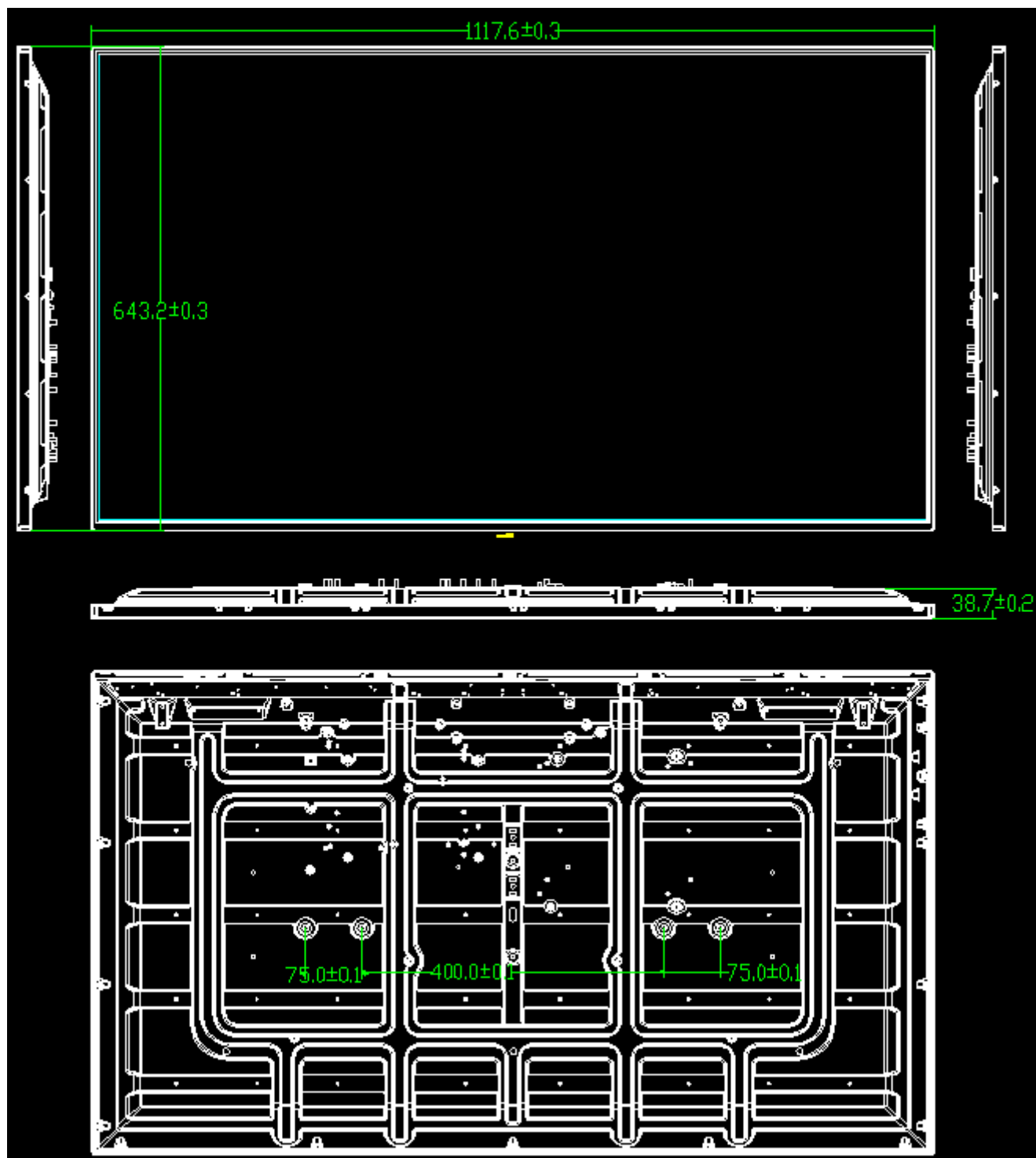
	Test Item	Q'ty	Condition
1	High temperature storage test	3	60℃,300hrs
2	Low temperature storage test	3	-20℃,300hrs
3	High temperature operation test	3	50℃,300hrs
4	Low temperature operation test	3	-5℃,300hrs
5	Drop test (With carton)	3	Height: 50cm 1 corner, 3 edges, 6 surfaces (ASTMD4169-I)

4. Package Specification

1 个纸箱装满共 4PCS 产品



5.Mechanical Drawing



6. Impression Drawing