

Multi-Purpose LED TV
Control Board Specification
Model: LED-18U01V4.0

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1.General Description 整体概述

2. Power supply overview 电源性能指标

1.1 Input Electrical Characteristics Overview (输入特性)

1.2 Output Electrical Characteristics Overview (输出特性)

3. Environmental Requirement 环境

3.1 Temperature (环境温度)

3.2 Humidity (环境湿度)

3.3 Altitude (海拔高度)

3.4 Cooling Method (冷却方式)

3.5 Vibration (振动耐受)

3.6 Impact (冲击耐受)

4. Dimension (物理尺寸)

5. Weight (重量)

6. Pin Connection (连接器脚位定义)

7. Power Supply mounting (安装尺寸)

RECORD OF REVISIONS (修改记录)			
REVISION NO. (修订号)	PAGE (页码)	Modify content (修改内容)	DATE (日期)
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1.整体概述 General Description

18U01V5.0 的电源部分是一种高效超薄 LED 背光恒流源，功率小于 18W。它适用于 27" 以下的 LED 背光液晶屏。

The power supply of 18U01V5.0 is a highly efficient ultra-thin LED backlight constant current source, wit backlight power under 18W.It fits to a LED backlight TFT panel under 27" .

2.电源性能指标 Power supply overview

2.1 Table1 Input characteristics (输入特性)

Parameter	Symbol	Min	Type	Max	Unit	Remark
Input voltage 输入电压	Vin	12	12	15	V	--
Input current 输入电流	Iin	--	--	1.6	A	--
Input power 输入功率	Pin	--	--	20	W	--
enable voltage 使能电压	EN	2.0	--	5.0	V	Enable
		0	--	1.5	V	Disable
Input dimming voltage (暗调电压)	PWM	--	200	--	HZ	--

2.2 Table2 Output characteristics (输出特性)

Parameter	Symbol	Min	Type	Max	Unit	Remark
Led current(Max Br) 最大电流	1L	--	--	400	mA	--
Led current(Min Br) 最小电流	1L	120	--	--	mA	--
Led voltage 电压	VL	Vcc	--	60	V	--
Frequency 频率	F	--	110	--	KHz	--

Open voltage 开路电压	LED+	--	--	74	V	--
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Note : Total output power must not exceed 18 w.

注：总输出功率不得超过 18W.

3.工作环境 Environmental Requirement

3.1 环境温度 Temperature

* Operating (操作温度) : -10°C to +55°C.

* Store (储存温度) : -20°C to +80°C.

3.2 环境湿度 Humidity

* Operating: From 10%to90% relative humidity (non-condensing).

* Store: From 5 to 95% relative humidity (non-condensing).

3.3 海拔高度 Altitude

* Operating: to10,000 ft.

* Store: to 20,000ft.

3.4 冷却方式 Cooling Method

*自然冷却 Ventilation cooling .

3.5 振动耐受 Vibration

* 10-55Hz, 19.6m/s²(2G), 3minutes period, 60minutes each along X, Y and Z axis.

3.6 冲击耐受 Impact

* 49m/s²(5G),11ms, once each X, Y and Z axis.

4.重量 Weight

25g

5.连接器脚位定义 Pin Connection

Pin-SCN1 Connection and Function

Pin NO	Symbol	Function
1、 2	+12V	Power Supply 输入电压
3	ENA	Power Control 电源控制
4	ADJ	Dimming Control 调光控制
5、 6	GND	Power Ground 电源地

Note : SCN1-XH CONNEETION,TYPE:pitch2.0mm

Pin-JS4, JS5 Connection and Function

10PIN	12PIN	Symbol	Description
	1	LED-	Led feedback side LED 负极
1	2	LED-	Led feedback side LED 负极
2	3	LED-	Led feedback side LED 负极
3	4	LED-	Led feedback side LED 负极
4	5	NC/LED-/LED+	NC/ LED 负极/ LED 正极
5	6	LED+	Led input side LED 正极
6	7	LED+	Led input side LED 正极
7	8	NC/LED-/LED+	NC/ LED 负极/ LED 正极
8	9	LED-	Led feedback side LED 负极
9	10	LED-	Led feedback side LED 负极
10	11	LED-	Led feedback side LED 负极
	12	LED-	Led feedback side LED 负极

Note : JS4,JS5—XH CONNEETION,TYPE:pitch0.5mm

Pin-JS3 Connection and Function

6PIN	Symbol	Description
1	LED-	Led feedback side LED 负极
2	LED-	Led feedback side LED 负极

3	LED+	Led input side LED 正极
4	LED+	Led input side LED 正极
5	LED-	Led feedback side LED 负极
6	LED-	Led feedback side LED 负极

Note : JS3—XH CONNEETION,TYPE:pitch1.0mm

Pin-JS2 Connection and Function

4PIN	Symbol	Description
1	LED+	Led input side LED 正极
2	LED+	Led input side LED 正极
3	LED-	Led feedback side LED 负极
4	LED-	Led feedback side LED 负极

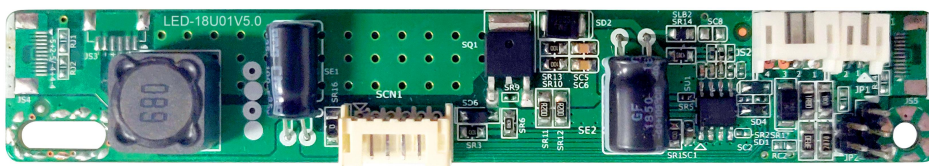
Note : JS2—XH CONNEETION,TYPE:pitch2.0mm

Pin-JS1 Connection and Function

2PIN	Symbol	Description
1	LED+	Led input side LED 正极
2	LED-	Led feedback side LED 负极

Note : JS1—XH CONNEETION,TYPE:pitch2.0mm

6.产品图 Product drawing



7.安装尺寸Power Supply Mounting

