



SANKOI (GZ) ELECTRONICS CO., LTD
广州森德意电子有限公司

SPECIFICATION FOR APPROVAL
承认书

CUSTOMER/客户: 艾芭恩科技

PART NO./物料号: _____

MODEL NO./产品型号: CV001-01-A

PRODUCT NO./产品编号: SK1008-001

MARK/修改标记	REVISED CONTENT/修改内容	APPROVED & DATE/认可及日期

AUTHORIZED SIGNATURE & COMPANY CHOP/客户认可及签回	

NOTE / 注意事项:

WHEN THE USAGE CONDITION ARE NOT SATISFIED OR EXCEEDED, SANKOI GROUP SHALL NOT BE LIABLE FOR ANY TROUBLE IN , OR DAMAGE TO THE EQUIPMENT WITH WHICH THE PRODUCT IS USED.

DATE/日期	2010-7-19	EDITION/版本	A-01	PAGE/页码	1 OF 6
DESIGN/设计	胡水明	CHECK/审核	李 涛	APPROVED/批准	付镜宁





SPECIFICATION

TYPE: CV001-01-A

PCB TYPE: CV001-01

SPEC NO: SK1008-001

1. APPLICATION & NOTICE

THIS DC TO DC CONVERTOR IS DESIGNED FOR THE BACKLIGHT OF LCD PANEL WITH LED ARRAY . AND, IT IS USED IN THE LCD MONITOR OR TV APPLICATIONS.

1-1. APPLICABLE LOAD: 18.5" -21.5" LCD PANEL.

1-2. NOTICE:

- * FOR SAFETY ISSUE, PLEASE KEEP 4.0MM AT LEAST FROM THE METAL PARTS OF THE SYSTEM TO THE CONVERTOR. OR, PUT A HIGH-VOLTAGE INSULATOR BETWEEN THE CONVERTOR AND THE METAL PARTS TO AVOID THE SITUATION OF HI-POT FAILURE OR ARCING---ETC.
- * DON' T TWIST, DEFORM, DROP OR KNOCK THE CONVERTOR DURING ASSEMBLY.
- * THE CONVERTOR IS USUALLY DESIGNED WITHOUT THE CASE. PLEASE TAKE CARE ABOUT ESD AT ANYTIME.
- * DUE TO THE CHARACTERISTIC OF PANELS, THE BRIGHTNESS IS SENSITIVE ABOUT TEMPERATURE. YOU MUST MEASURE IT IN THE SAME CONDITION AND BE WAITING FOR 10~30 MINUTES AFTER THE POWER ON.

2. ENVIRONMENT CHARACTERISTICS

2-1. TEMPERATURE:

STORAGE: 0°C~50°C.

OPERATING: 0°C~50°C.

2-2. HUMIDITY:

STORAGE: 10%~95% RH, NON-CONDENSING

OPERATING: 10%~95% RH, NON-CONDENSING

3. FEATURES

- * HIGH PERFORMANCE & LOW POWER CONSUMPTION;
- * SOFT START & SOFT ON/OFF CONTROL;
- * CONSTANT OPERATING FREQUENCY



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4. GENERAL REQUIREMENTS

4-1. INPUT CHARACTERISTICS

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	REMARK
INPUT VOLTAGE	V _{in}	-	12	17	V	
INPUT CURRENT	I _{in}	-	1.1	1.4	A	VIN=12V, ENA=5V DIM=0V RL=113 Ω
INPUT POWER	P _{in}	-	13.2	-	W	VIN=12V, ENA=5V DIM=0V RL=113 Ω
INPUT VOLTAGE	ENA	3.5	-	5.0	V	ON STATUS
		-	0	0.5		OFF STATUS
INPUT VOLTAGE	DIM	0	-	5.0	V	0V-Max. OUTPUT

4-2. OUTPUT CHARACTERISTICS

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	REMARK
OUTPUT CURRENT (MAX. BRIGHTNESS)	I _L	220	270	360	mArms	VIN=12V, ENA=5V DIM=0V RL=113 Ω
OUTPUT CURRENT (MIN. BRIGHTNESS)	I _L	-	180	220	mArms	VIN=12V, ENA=5V DIM=0V RL=113 Ω
LAMP VOLTAGE	V _L	-	36.3 (Ref.)	-	V _{rms}	VIN=12V, ENA=5V DIM=0V RL=LED LOAD
FREQUENCY	FL	-	250	-	kHz	VIN=12V, ENA=5V DIM=0V RL=113 Ω

REMARK:



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4-3. PIN ASSIGNMENTS

DC INPUT:

LOCATION: CN1

CONNECTOR TYPE: S6B-PH-SM3-TB OR EQUIVALENT MAKER: JST OR EQUIVALENT

DESCRIPTION: (6PIN SPACE BETWEEN 2.0MM HORIZONTAL 90° SMD)

PIN NO	SYMBOL	DESCRIPTION
1、 2	VIN	POWER SUPPLY (RANGED FROM 12V TO 17V; 12V TYP.)
3	ENA	ENABLED & DISABLED CONTROL : (DISABLED: D. C. 0V~D. C. 0.5V; ENABLED: D. C. 3.5V~D. C. 5V)
4	DIM	BRIGHTNESS CONTROL: (0V: MAX. BRIGHTNESS; 5V: MIN. BRIGHTNESS)
5、 6	GND	POWER SUPPLY GROUND

AC OUTPUT:

LOCATION: CN2, CN3, CN4, CN5

CONNECTOR TYPE: NC

DESCRIPTION: NC

PIN	SYMBOL	FUNCTION
1	LED_OUT	LED CURRENT OUT
2	LED_OUT	LED CURRENT OUT
3	LED_OUT	LED CURRENT OUT
4	LED_OUT	LED CURRENT OUT
5	LED_IN	LED VOLTAGE IN
6	LED_IN	LED VOLTAGE IN
7	LED_OUT	LED CURRENT OUT
8	LED_OUT	LED CURRENT OUT
9	LED_OUT	LED CURRENT OUT
10	LED_OUT	LED CURRENT OUT

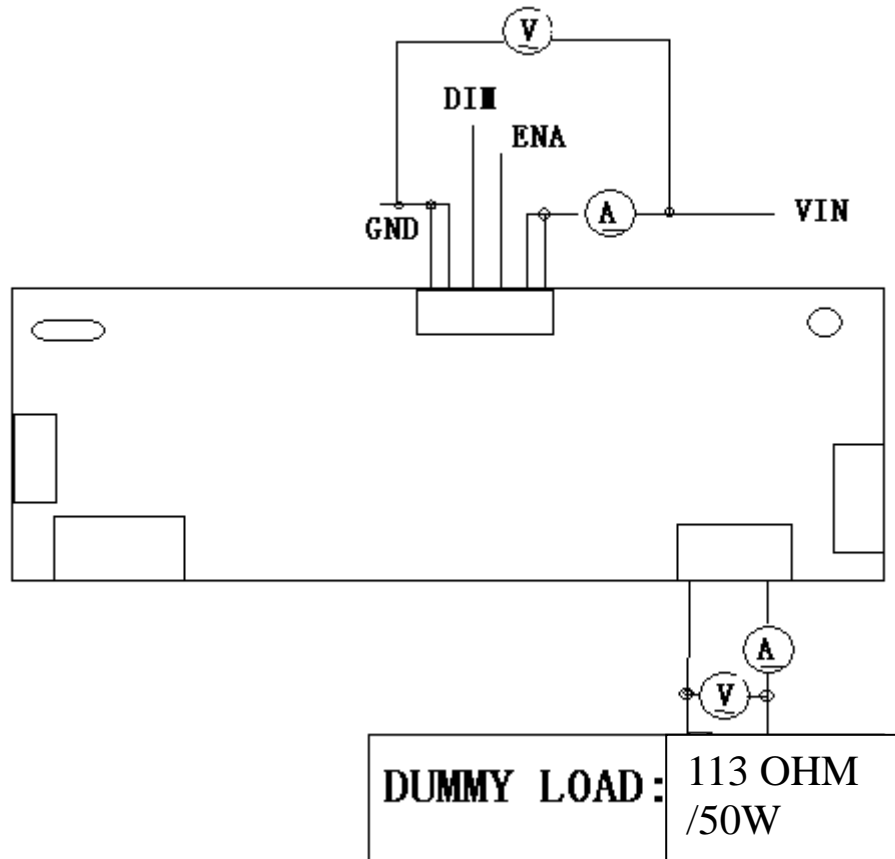
5. WEIGHT






APPROXIMATELY: ≈25g.

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6. TEST EQUIPMENT & TEST CIRCUIT**TESTING INSTRUMENTS:**

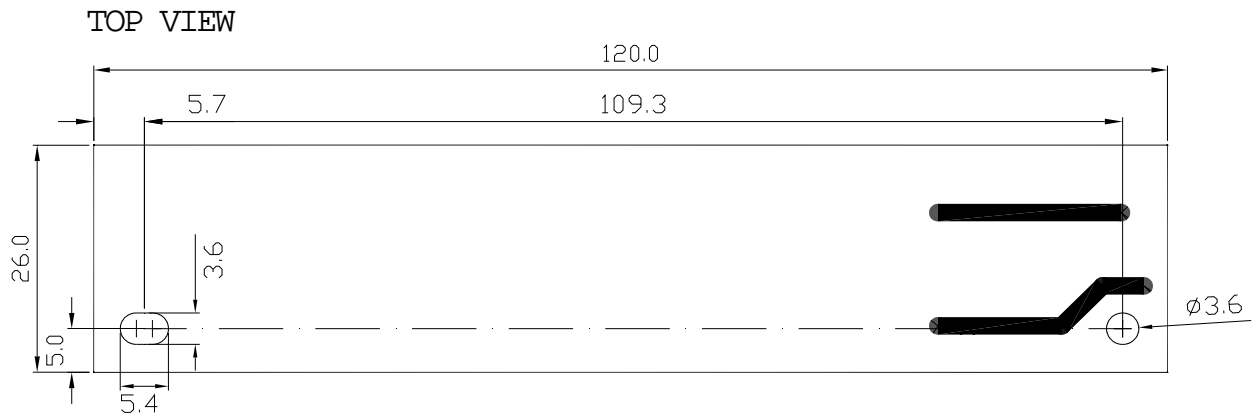
-  .REGULATED DC POWER SUPPLY(GW:GPR-3060D)
-  .DIGITAL MULTI-METER(GW:ESCORT 3136A)
-  .FREQUENCY COUNTER(GW:ESCORT 3136A)
-  .DC AMPERE-METER(GW:ESCORT 3136A)
-  .TRUE R.M.S. AC VOLTIMETER(GW:ESCORT 3136A)

OSCILLOSCOPE: TEKTRONIX TDS3012B

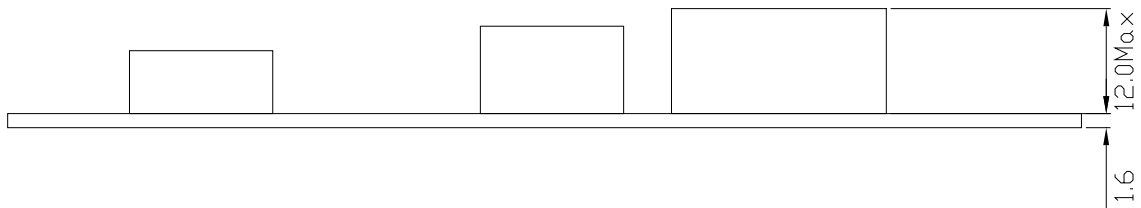
HIGH VOLTAGE PROBE: TEKTRONIX P6015A

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7. MECHANICAL CHARACTERISTICS



LATERAL VIEW



TOLERANCES

$0 < L \leq 26$	± 0.2
$26 < L \leq 120$	± 0.4