

TO : Customers

DATE : 2012.09.13

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DOCUMENTATION FOR APPROVAL

PRODUCT : CCFL BACKLIGHT INVERTER

MODEL NAME : GH089A(RoHS INVERTER)

GCCT NAME : GCCT089AA

APPROVAL	CHECKED	WRITTEN

PLEASE RETURN ONE DOCUMENT AFTER APPROVED SIGN.

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GREEN C&C TECH	INVERTER SPECIFICATION GH089A	R&D DATE : 2012.09.13
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NO	DATE	REVISION	PAGE
1	2008.04.29	- . Parts Vendor changed	1,7,8
2	2009.06.26	- . Open Voltage added. - . PCB Vendor Changed. . SEENDUCK, RAMI, SOOJOO : Deleted. . SEOKANG, SONGDO, BACKSONG : Added. - . Fuse Vendor Changed. . Cooper Bussmann : Added.	1,3,8
3	2012.09.11	- . FET Vendor Added. . MSD9651(MAGNACHIP), AP4506GEM(APEC) - . PCB Vendor Changed. JOONWON, WONKYUNG, SEOKANG, SONGDO, BACKSONG → SEOKANG, WONKYUNG, BACKSONG, TAESUNG HITECH	1,7,8

REVISION HISTORY

REV.											
Page											
REV.	0	0									
Page	12	13									
REV.	3	0	1	0	0	0	2	3	0	0	0
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1. APPLICATION

This Document Specified The Detailed Product Requirements of Inverter
GH089A

2. SUITABLE LOAD

LCD MODULE : LG 20.1" 6LAMP TFT LCD
LG 21.3" 6LAMP TFT LCD

3. ELECTRICAL CHARACTERISTICS

3.1. Absolute Maximum Ratings

ITEM	SYMBOL	SPEC	UNIT	REMARKS
INPUT VOLTAGE1	Vin1	10.8V~13.2V	V	
INPUT VOLTAGE2	Vin2	5.25	V	
OPERATING TEMPERATURE	Top	0 ~ 60	℃	
STORAGE TEMPERATURE	Tstg	-30 ~ 80	℃	
RELATIVE HUMIDITY	RH	90	%	

3.2. Control Signal

PIN NO.	SYMBOL	STATUS	ACTION	REMARKS
CN1 #4	BKLT_ON	HIGH	LAMP(CCFL)-ON	2.4~5.25V
		LOW	LAMP(CCFL)-OFF	0.8V MAX

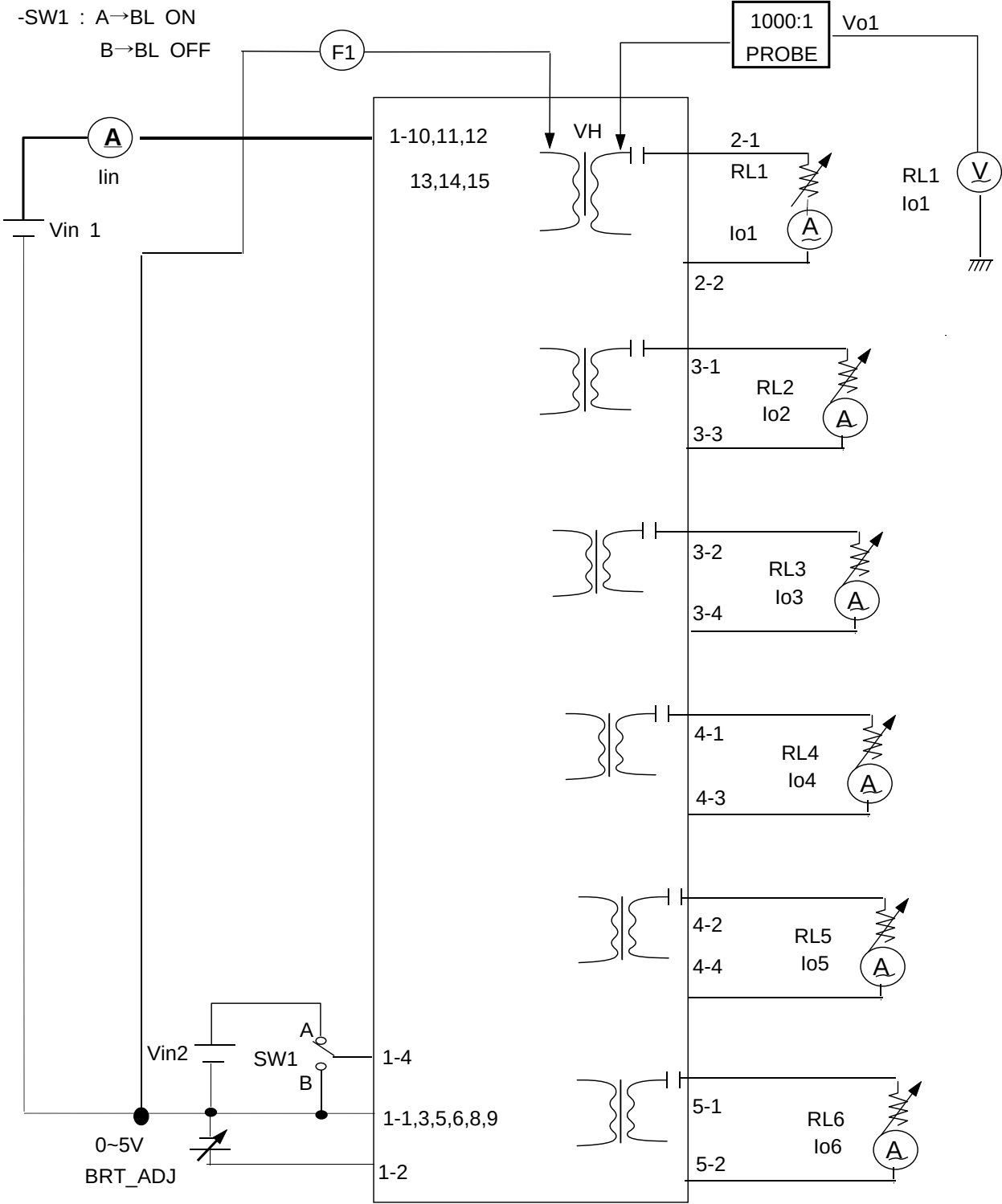
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3.3. Output Characteristics

ITEM	SYMBOL	CONDITION			SPECIFICATION			UNIT
		Vin1(V) (DC-IN)	BRT- ADJ	LAMP	MIN	TYP	MAX	
OUTPUT CURRENT	Io1(max) Io2(max) Io3(max) Io4(max) Io5(max) Io6(max)	12V	0V	LAMP	6.3	6.8	7.3	mArms
	Io1(min) Io2(min) Io3(min) Io4(min) Io5(min) Io6(min)	12V	5V	LAMP	3.1	3.6	4.1	
INPUT CURRENT	Iin	12V	0V	LAMP	2.3	2.8	3.5	Adc
FREQUENCY	F	12V	0V	LAMP	40	44	50	KHz
OPEN VOLTAGE	Vo 1~6	12V	0V	-	1.3	-	2.4	KV
Shut down time	T1	12V	0V	LAMP OPEN	-	-	2.0	sec

NOTE) all connector, one connector, two connector, three connector open shut down.

3.4. Test Circuit



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4. INTERFACE

4.1. CN1 CONNECTOR : 12505WR-15A00(P)(YEONHO) / Equivalent

PIN NO	SYMBOL	REMARK
2	BRT_ADJ	0 ~ 5V
1,3,5,6,8,9	GND	GND
4	BL ON/OFF	CCFL Drive SIGNAL(Active HIGH)
7	N.C	
10,11,12 13,14,15	DC-IN(Vin)	DC INPUT Power (12V)

4.2. CN3 CONNECTOR : 35001WR-02A00(P)(YEONHO) / Equivalent

PIN NO.	SYMBOL	REMARK
1	HOT	HIGH
2	COLD	LOW

4.3. CN2 CONNECTOR : 20015WR-09A00(P)(YEONHO) / Equivalent

PIN NO.	SYMBOL	REMARK
1	HOT	HIGH
2	HOT	HIGH
3	COLD	LOW
4	COLD	LOW

4.4. CN5 CONNECTOR : 20015WR-09A00(P)(YEONHO) / Equivalent

PIN NO.	SYMBOL	REMARK
1	HOT	HIGH
2	HOT	HIGH
3	COLD	LOW
4	COLD	LOW

4.5. CN4 CONNECTOR : 35001WR-02A00(P)(YEONHO) / Equivalent

PIN NO.	SYMBOL	REMARK
1	HOT	HIGH
2	COLD	LOW

