

CXA-0315 (21W QUAD OUTPUTS WITH DIMMING FUNCTION)

DESCRIPTION :

This DC to AC Inverter was developed for many other low LCD Backlight power supply as low profile applications, either for LCD Monitor or Industrial PC.



APPLICABLE LCD:

- 15 to 17inch quad lamp type
- Lamp Voltage 700V
- Lamp Current 7.5mA
- Lamp Start Up Voltage 1800Vrms

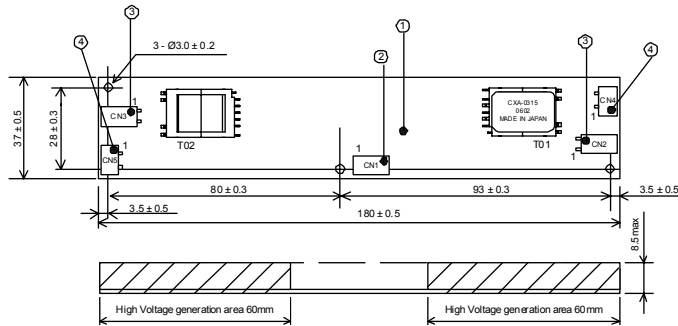
FEATURES :

- PWM dimming type.
- Current Feedback Circuit
- High Efficiency
- Regulated output current

TEMPERATURE & HUMDITY :

- Operating Temperature Range 0°C ~ +60°C
- Storage Temperature Range -30°C ~ +85°C
- Humidity 95 %RH max

DIMENSIONS :



Unit : mm
Weight : 44 (g) typ.

No.	Part Description	Qty.	Note
1	PWB	1	UL94V-0 t=1.0mm
2	Connector CN1	1	S7B-PH-SM3 (JST)
3	Connector CN2,3	2	SM02B-BHSS-1 (JST)
4	Connector CN4,5	2	SM02(4.0)B-BHS (JST)

CN1 : S7B-PH-SM3 (JST)

Pin	Symbol	Note
CN1-1	Vin	10.8 ~ 13.2V
CN1-2		
CN1-3	GND	0 V
CN1-4		
CN1-5	Vbr	0 ~ 5.5V
CN1-6	NC	
CN1-7	Vrmt	0 ~ 0.4V : OFF 2.5V ~ Vin : ON

CN2,CN4 : SM02B-BHSS-1 (JST)

Pin	Symbol	Note
CN2-1 / CN2-2	Vhigh1 / Vhigh2	700Vrms (7.5mArms)
CN3-1 / CN3-2	Vhigh3 / Vhigh4	700Vrms (7.5mArms)

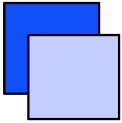
CN3,CN5 : SM02(4.0)B-BHS (JST)

Pin	Symbol	Note
CN4-1 / CN4-2	Vlow1 / Vlow2	(2V)
CN5-1 / CN5-2	Vlow3 / Vlow4	(2V)

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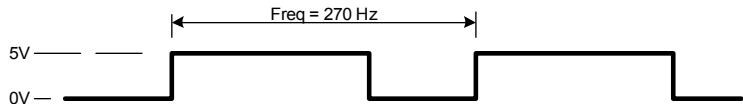


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ELECTRICAL CHARACTERISTICS :

Parameters	Symbol	Conditions					Specifications			Unit
		Vin (V)	V (V)	Vbr (V)	Ta (°C)	RL1 ~ 4 (kΩ)	min.	typ.	max.	
Output Current	Iout	12 ± 1.2	5 ± 0.25	0	0 ~ 60	80	6.5	7.5	8.5	mA Arms
		12 ± 1.2	5 ± 0.25	0	23 ± 5	80	7	7.5	8	
		12 ± 1.2	5 ± 0.25	Duty(High)* 65 ± 0.5%	0 ~ 60	80	3	4	5	
Input Current1	Iin1	12 ± 1.2	5 ± 0.25	0	0 ~ 60	80	-	2	2.5	Adc
Input Current2	Iin2	12 ± 1.2	0 ± 0.25	0	0 ~ 60	80	-	-	1	mA Dc
Frequency	FL	12 ± 1.2	5 ± 0.25	0	0 ~ 60	80	40	45	50	kHz
Open Voltage	Vopen	12 ± 1.2	5 ± 0.25	0	0 ~ 60	∞	1700	1800	-	Vrms

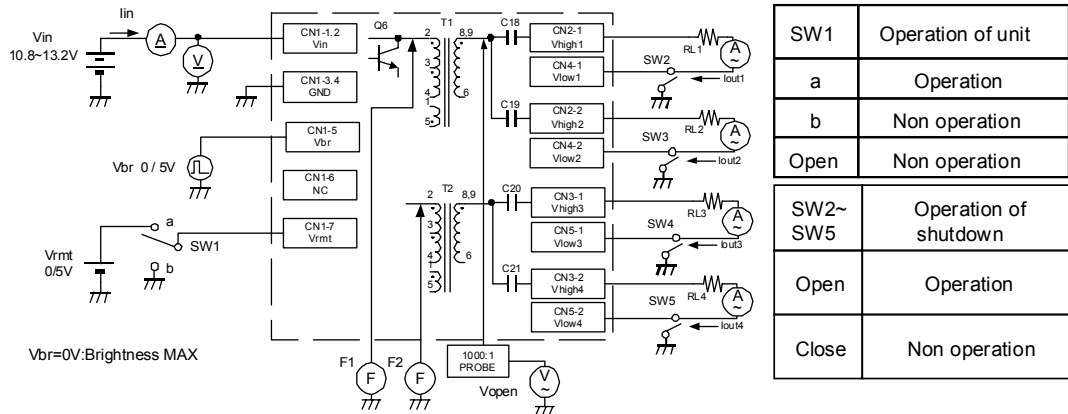
* High (=5V) 65% , Low (=0V) 35%



Note 1 : Please keep minimum of 2mm clearance (all directions) between inverter high voltage area as marked on mechanical drawing and any conductors.

Note 2 : Open circuit on all lamps for more than 3 seconds, will shut the inverter down

TEST CIRCUIT :



SW1	Operation of unit
a	Operation
b	Non operation
Open	Non operation
SW2~SW5	Operation of shutdown
Open	Operation
Close	Non operation

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