CXA-0315

Dimming/Connector Type

■ Features

- ●4-output
- ●UL60950 approved
- ●Applicable panel size*: 15 to 17 inches
- ●With brightness control function (Pulse Wide Modulation mode).
- ●With shut down function.
- ●In the high-voltage generator(a terminal and a pattern), an anti-dust measure by silicone application is taken.

(Notice) Applicable panel size becomes a standard.

■ Applications

CXA-0315 Specifications (Please refer to each specification before use)

Electrical Characteristics

Item	Unit	Symbol	Specification			Condition					
			min	typ	max	Vin(V)	Vrmt(V)	Vbr(V)	Ta(℃)	RL(kΩ)	Remark
Output Current	mA	Iout (Maximum dimmer)	7.0	7.5	8.0	12±1.2	5	0	23±5	80	(*1)
			6.5	7.5	8.5	12±1.2	5	0	0 to +60	80	(*1)
		Iout (Maximum dimmer)	3.0	4.0	5.0	12±1.2	5	Duty(High) 65%	0 to +60	80	(*1)
Input Current	A	Iin1	-	2.0	2.5	12±1.2	5	0	0 to +60	80	Remote ON
	mA	Iin2	-		1.0	12±1.2	0		0 to +60	80	Remote OFF
Frequency	kHz	Freq	40	45	50	12±1.2	5	0	0 to +60	80	
Open Circuit Voltage	Vrms	Vopen	1700	1800	-	12±1.2	5	0	0 to +60	∞	Open load

(*1) Please refer to the connection diagram for details of a dimming method.

Other Specifications

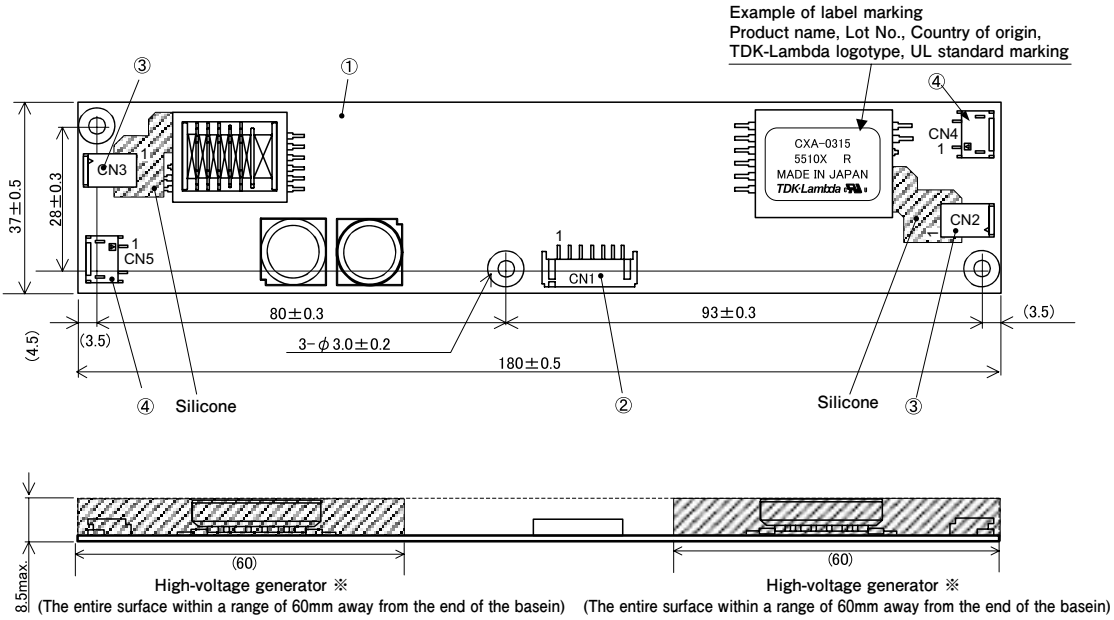
Dimming Function		Yes
Operating Temperature	℃	0 to +60
Storage Temperature	℃	-30 to +85
Operating Humidity Ratio	RH%	95Max
Safety Standard		UL60950
Weight	g	44
Dimensions(WxDxH)	mm	180x37x8.5 (*2)
Fused Input		Yes
Remote ON／OFF		Yes
Alarm Signal Function		No
Shutdown Function		Yes
Silicone Coating on High Voltage Area		Yes

(*2) These dimensions are indicated the maximum only H. Others are typical values.

■ Conformity to RoHs Directive

This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

Outline Drawing



※From high-voltage generator, please secure space distance more than 3mm in top and bottom right and left.

unit:mm

Connector

Connector number	Part number	Model/Material	Quantity	Remarks	Recommended applicable connector
①	Printed circuit board PCB	Composit (CEM-3)	1	UL94V-0 t=1.0	—
②	Input connector CN1	S7B-PH-SM4-TB (LF) (SN)	1	JST Mfg. Co., Ltd.	PHR-7
③	Output connector CN2,3	SM02B-BHSS-1-TB (LF) (SN)	2	JST Mfg. Co., Ltd.	BHSR-02VS-1
④	Output connector CN2,3	SM02 (4.0) B-BHS-1-TB (LF) (SN)	2	JST Mfg. Co., Ltd.	BHR-02VS-1

Terminal Numbers And Functions

Input side CN1

Terminal number	Symbol	Rated voltage	Remarks
CN1-1	Vin	12±1.2V	Power input
CN1-2			
CN1-3	GND	0V	GND
CN1-4			
CN1-5	Vbr	0 to 5V	Dimmer terminal
CN1-6	N.C.	—	N.C.
CN1-7	Vrmt	0V/2.5V to Vin	Remote terminal 0 to 0.4V : OFF 2.5 to Vin : ON

Output side CN2

Terminal number	Symbol	Rated voltage	Remarks
CN2-1	$V_{HIGH}1$	700Vrms	Output 1
CN2-2	$V_{HIGH}2$	700Vrms	Output 2

Output side CN3

Terminal number	Symbol	Rated voltage	Remarks
CN3-1	$V_{HIGH}3$	700Vrms	Output 3
CN3-2	$V_{HIGH}4$	700Vrms	Output 4

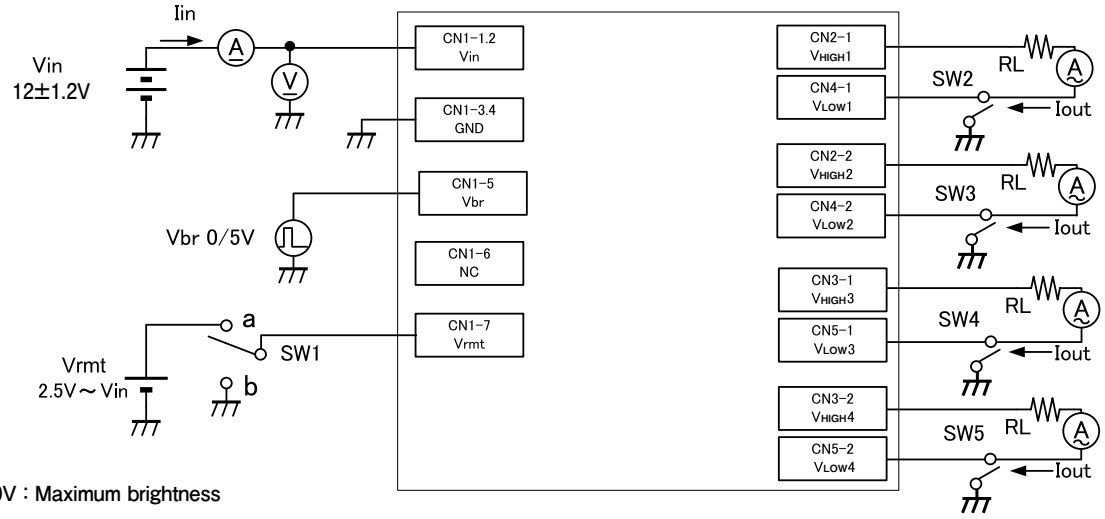
Output side CN4

Terminal number	Symbol	Rated voltage	Remarks
CN4-1	$V_{LOW}1$	(2V)	Output 1 return
CN4-2	$V_{LOW}2$	(2V)	Output 2 return

Output side CN5

Terminal number	Symbol	Rated voltage	Remarks
CN5-1	$V_{LOW}3$	(2V)	Output 3 return
CN5-2	$V_{LOW}4$	(2V)	Output 4 return

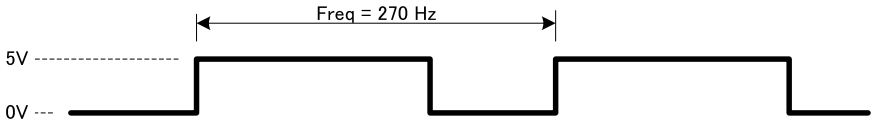
Connections



Vbr=0V : Maximum brightness

RL1 : Load resistance (7W minimum)

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



Operate as follows by switching SW1.

SW1	Unit operation
a	Operation
b	Operation stopped
Open	Operation stopped

Protection circuit operation

Load condition	Shut-down function※1
Normal condition	Does not shut down
When 1 load (lamp) is run-out	Shut down
When 2 loads (lamps) are run-out	Shut down
When 3 loads (lamps) are run-out	Shut down
When 4 loads (lamps) are run-out	Shut down

※1: When lamp more than one of them was opened, stop operation in this inverter at about 2 second because it has included protective function.