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# **CXA-0496**

## Features

- •2 outputs
- Usable in a wide range of temperatures
- ●UL60950-1 acquisition product
- Applicable panel size\*: 8 to 10 inches
- With brightness control function (Pulse Width Modulation Dimming).
- With shut down function.
- •With a sensing function for running out of lamp (alarm output).
- •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







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# CXA-0496 Specifications (Please refer to each specification before use)

#### **Electrical Characteristics**

Item	Unit	Symbol	Specification			Condition								
item	Unit	Symbol	min	typ	max	Vin(V)	Vrmt(V)	Vbr(V)	Rbr(kΩ)	Ta(°C)	RL1,2(kΩ)	CL1,2(PF)(*3)	Remarks	
		lout 1, 2 (Maximum dimmer)	5.3	6.0	6.7	12±1.2	5	0	-	-30 to +80	72	3	Voltage dimmer (*1)	
Out + Our			5.3	6.0	6.7	12±1.2	5	-	0	-30 to +80	72	3	Volume dimmer (*1)	
Output Current	IIIAIIIS	lout 1, 2 (Minimum	3.6	4.3	5.0	12±1.2	5	2.5	-	-30 to +80	72	3	Voltage dimmer (*1)	
		dimmer)	3.6	4.3	5.0	12±1.2	5	-	50	-30 to +80	72	3	Volume dimmer (*1)	
Innuit Comment	mA	lin1 lin2	-	600	1300	12±1.2	5	0	-	-30 to +80	72	3	Remote ON	
Input Current	mA		-	-	1	12±1.2	0	0	-	-30 to +80	72	3	Remote OFF	
Oscillatory	kHz	:Hz Freq1	45	50	55	12±1.2	5	0	-	-30 to +80	72	3		
Frequency	Hz Freq2 (D	Freq2 (Duty frequency)	225	250	275	12±1.2	5	2.5	-	-30 to +80	72	3		
Open Circuit Voltage	Vrms	Vopen1,2	1400	1550	-	12±1.2	5	0	-	-30 to +80	∞/∞	∞/∞	Open load	
Alarm Signal	V			4.5	5.1	5.5	12±1.2	5	0	-	-30 to +80	∞/72	∞/3	In case of lamp anomaly (*2)
		/ Vst	4.5	5.1	5.5	12±1.2	5	0	-	-30 to +80	72/∞	3/∞	In case of lamp anomaly (*2)	
			-	0	0.5	12±1.2	5	0	-	-30 to +80	72	3	On a normal operation (*2)	

- (\*1) Please refer to the connection diagram for details of a dimming method.
- (\*2) Please refer to the connection diagram for details of alarm output.
- ("3) As equivalent circuit of panel load, connect resistance load (RL) and distributed capacity (CL), and have provided by an electrical characteristic.

### **Other Specifications**

•		
Dimming Function		Yes
Operating Temperature	$^{\circ}$	-30 to +80
Storage Temperature	°C	-30 to +85
Operating Humidity Ratio	RH%	95max.
Safety Standard		UL60950-1
Weight	g	22typ.
Dimensions (WxDxH)	mm	110x22x8.5 (*3)
Fused Input		Yes
Remote ON / OFF		Yes
Alarm Signal Function		Yes
Shutdown Function		Yes
Silicone Coating on High Voltage Area		Yes

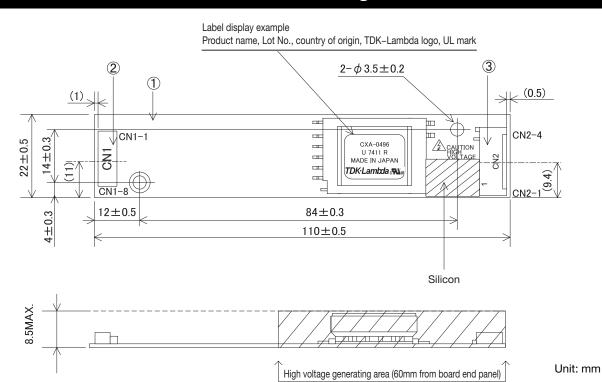
### (\*3) These dimensions are indicated the maximum only H. Others are typical values.

## ■ 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.

# Connector type/2 outputs

# **Outline Drawing**



### Connector

No.	Component name	Type name	Qty	Remarks	Recommended suitable connector
1	Printed circuit board PCB	Composite (CEM-3)	1	UL94V-0 t=1.0-	-
2	Input connector CN1	53261-0871	1	Molex	51021-0800
3	Output connector CN2	SM03(7-D1)B-BHS-1-TB(LF)(SN)	1	J.S.T Mfg., Co., Ltd	BHR-04VS-1

## **Terminal Number & Function**

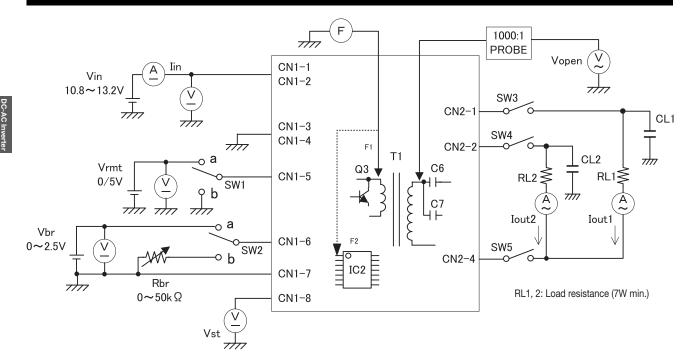
## Input side CN1

Terminal No.	Cor	nnection	Remarks	
ieminai ivo.	Symbol	Rating		
CN1-1	Vin	12±1.2V	Power source input	
CN1-2	VIII	12±1.2V		
CN1-3	GND	OV	Ground	
CN1-4	GND	UV	Ground	
CN1-5	Vrmt	0V/2.5V to Vin	0 to 0.4V : OFF Remote terminal 2.5V to Vin : ON	
CN1-6	Vbr1/Rbr1	0 to 2.5V/0 to 50kΩ	Dimmer terminal 1	
CN1-7	Vbr2/Rbr2	GND/0 to 50kΩ	Dimmer terminal 2	
CN1-8	Vst(output)	0V/5V	Alarm output Lump open: 5V	

## Output side CN2

Tarminal Na		Connection	Remarks	
Terminal No.	Symbol	Rating		
CN2-1	VHIGH1	432mVrms	Output 1	
CN2-2	V <sub>HIGH</sub> 2	432mVrms	Output 2	
CN2-3	N.C.	_	N.C.	
CN2-4	VLOW	(3V)	Output 1, 2 return	

# **Connections**



Operate as follows by switching a SW1.

SW1	Unit operates
а	Operates
b	Does not operate

Operate as follows by switching a SW2.

SW2	Unit operates		
а	Voltage dimmer Vbr = 0 to 2.5V (0V: Maximum brightness)		
b	Volume dimmer $VR = 0 \text{ to } 50 \text{k}\Omega$ $(0\Omega: \text{Maximum brightness})$		

Operates as follows depending on ON-OFF of SW3 to 5.

SW3 to 5	Operates alarm output		
Open	Operates (outputs 5V)		
Close	Does not operate (outputs 0V)		

## Protection Circuit Operation

Load condition	Alarm output*1 (CN1-8)	Shutdown function*2		
When load is normal	0.5V max.	Does not shut down		
When 1 load (lamp) is NG	4.5~5.5V	Shuts down (after approx. 3 secs)		

<sup>\*1</sup> If any one of switches SW3 to 6 becomes open, shutdown will operate, and warning (5V output) will be output.

<sup>\*2</sup> The inverter has built in protection function to stop operation after approximately 3 seconds when 1 or more loads is has become open.