## **Power Supplies** DC to AC Inverters For 1 Bulb, 5W Diming

## CXA Series CXA-L0612A-VJL

This DC to AC inverter unit is designed for dimming-type cold cathode lamps. This inverter can be used for lighting a wide range of single cold cathode fluorescent lamps.

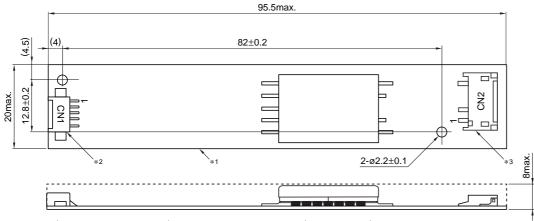
### FEATURES

- Use of output current control avoids effects resulting from input voltage, load, and distributed capacitance variation.
- This inverter unit is appropriate for use with 6 to 13 inch LCDs since the typical open circuit voltage(initial lamp ignition voltage) is 1.8kVrms.
- Safe design that includes a built-in overcurrent protection element.
- Insulation is simplified due to flat backside surface of board.
- Excellent inverter for ignition of U-shaped cold cathode fluorescent lamps.

### SHAPES AND DIMENSIONS

### TEMPERATURE AND HUMIDITY RANGES

Temperature range	Operating	0 to +60°C				
Temperature range	Storage	–20 to +85°C				
Humidity range		95(%)RH max.				
number ange		[Maximum wet-bulb temperature:38°C]				



\*1Substrate(PWB: Printed wiring board): Inflammable material UL94V-0(FR-4 or CEM-3) t=1mm

\*2CN1: Molex Japan Co., Ltd. 53261-0510

\*3CN2: Japan Solderless Terminal Co., Ltd. SM02(8.0)B-BHS-1

Weight: 14.5g typ. Dimensions in mm

## TERMINAL NUMBERS AND FUNCTIONS

CN1

Terminal No.		Functions				
CN1-1	CN1-1 Vin Input voltage Edc:9.6 to 15V					
CN1-2	GND	0V				
CN1-3	Vrmt	Reote voltage Edc:0/5 to 15V[5 to 15V operating]				
CN1-4	Vbr	Brightness dimmer voltage Edc:0 to 4V [0V maximum brightness]				
CN1-5	NC	Do not connect. Used by internal circuitry.				

#### CN2

Terminal No.		Functions			
CN2-1	Vhigh	Output [High voltage] Irms:1.6 to 6mA			
CN2-2	NC				
CN2-3	VLOW	Output[Low voltage]:(2V)			



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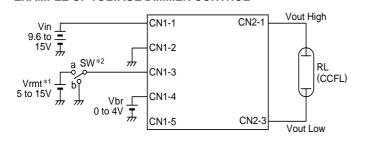
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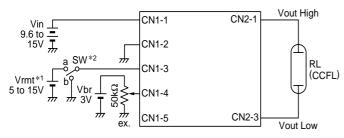
### **ELECTRICAL CHARACTERISTICS**

ltom			Specifications			Conditions				Drichtease
Item			min.	typ.	max.	Vin(V)	Vbr(V)	Ta(°C)	R∟(kΩ)	<ul> <li>Brightness</li> </ul>
			5.3	6	6.7	9.6 to 15	0	0 to +60	90 to 130	Maximum
Output current	Irms(mA)	lout	5.4	6	6.6	9.6 to 15	0	23±5	100	Maximum
			1.3	1.6	1.9	9.6 to 15	4	23±5	520	Minimum
Input current	Idc(A)	lin	_	0.4	0.65	12	0	0 to +60	90 to 130	
Oscillation frequency	(kHz)	F∟	48	58	68	9.6 to 15	0	0 to +60	90 to 130	
Open circuit output voltage	Erms(V)	Vopen	1500	1800	_	9.6 to 15	0 to 3	0 to +60	~	

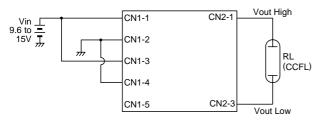
### TYPICAL CONNECTIONS EXAMPLE OF VOLTAGE DIMMER CONTROL



### EXAMPLE OF POTENTIOMETER DIMMER CONTROL



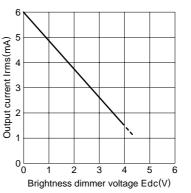
### NO DIMMER CONTROL



\*1 Vrmt (remote voltage) shall be ON after Vin was ON.

\*2 SW a:ON, b:OFF

# OUTPUT CURRENT vs. BRIGHTNESS DIMMER VOLTAGE CHARACTERISTICS



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