

# DC to AC Inverters

## Connector type, Dimming, 9W, for 2 Bulbs

Conformity to RoHS Directive

### CXA Series CXA-P1612-VJL

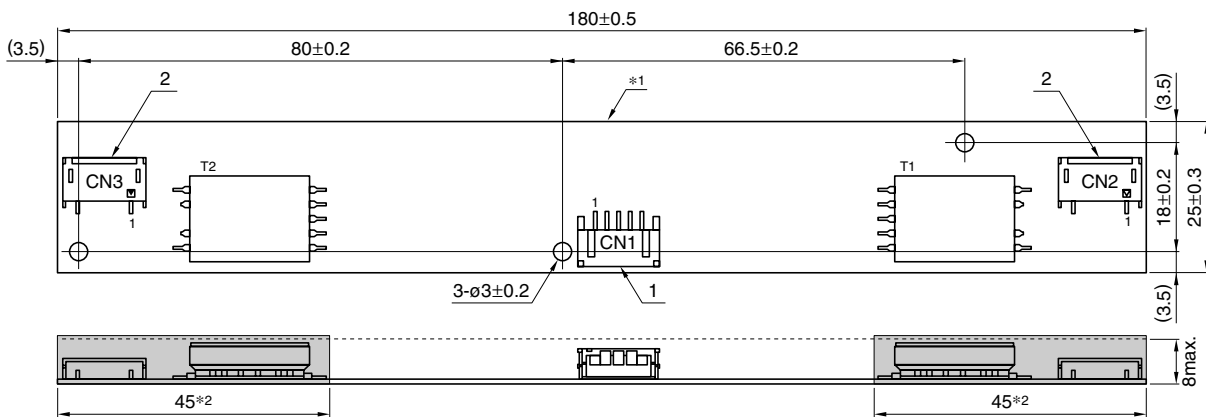
#### FEATURES

- For 2 bulbs.
- Applicable panel size\* : 10 to 15-inch
- With brightness control function (Pulse Wide Modulation mode).
- The high-voltage terminals are coated with silicone so as to avoid the defects caused by dust.
- It is a product conforming to RoHS directive.
- \* The applicable panel size is for typical reference dimensions.

#### TEMPERATURE AND HUMIDITY RANGES

Temperature range (°C)	Operating	0 to +60
	Storage	-30 to +85
Humidity range(%)RH		95max.
		[Maximum wet-bulb temperature 38°C. No dew.]

#### SHAPES AND DIMENSIONS



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

Weight: 29.6g typ.

\*2 : High-voltage generator (The entire surface within a range of 45mm away from the end of the base in the output)

Dimensions in mm

	Connector manufacturer's company and type	Symbol
1 Input connector	Japan Solderless Terminal Co., Ltd. S5B-PH-SM4	CN1
2 Output connector	Japan Solderless Terminal Co., Ltd. SM02(8.0)B-BHS-1	CN2

#### TERMINAL NUMBERS AND FUNCTIONS

##### CN1

Terminal No.	Function	Symbol
CN1-1	Input voltage Edc: 10.8 to 13.2V/12V	V <sub>in</sub>
CN1-2	0V	GND
CN1-3	Brightness dimmer voltage* Edc: 0 to 2.5V(Maximum brightness on 0V)	V <sub>br</sub>
CN1-4	Used in the internal circuits, do not connect.	N.C.
CN1-5	Remote voltage Edc 0V : off/5 to 15V:on	V <sub>rmt</sub>

\* Brightness can be controlled by adjusting V<sub>br</sub> within a range of 0 to 2.5V.

##### CN2

Terminal No.	Function	Symbol
CN2-1	Output 1[High voltage] I <sub>rms</sub> 4 to 8mA	V <sub>HIGH1</sub>
CN2-2	—	N.C.
CN2-3	Output 1[Low voltage] (0.6V)	V <sub>LOW1</sub>

##### CN3

Terminal No.	Function	Symbol
CN3-1	Output 2[High voltage] I <sub>rms</sub> 4 to 8mA	V <sub>HIGH2</sub>
CN3-2	—	N.C.
CN3-3	Output 2[Low voltage] (0.6V)	V <sub>LOW2</sub>

• 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.

• All specifications are subject to change without notice.

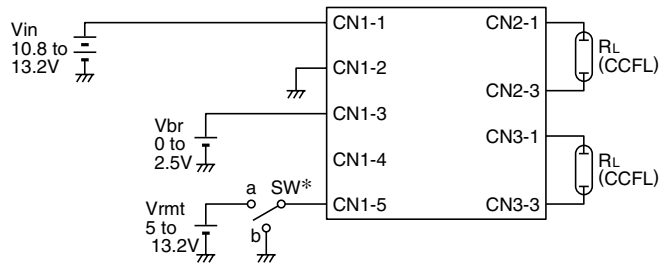
# CXA-P1612-VJL

## ELECTRICAL CHARACTERISTICS

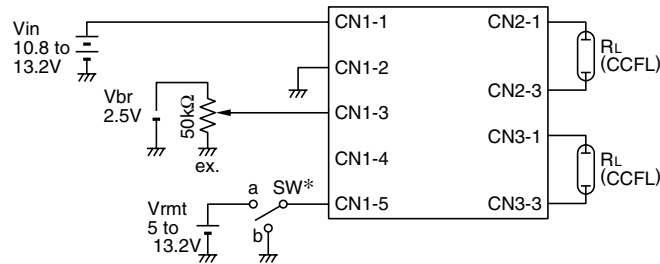
Item	Unit	Symbol	Specification			Condition				Brightness
			min.	typ.	max.	$V_{in}(V)$	$V_{br}(V)$	$T_a(^{\circ}C)$	$R_L(k\Omega)$	
Output current $I_{rms}$	mA	$I_{out}$	7.2	8.0	8.8	$10.8 \pm 0.05$	0	0 to +60	$70 \pm 2$	Maximum
			7.2	8.0	8.8	$12.0 \pm 0.05$	0	0 to +60	$70 \pm 2$	Maximum
			7.2	8.0	8.8	$13.2 \pm 0.05$	0	0 to +60	$70 \pm 2$	Maximum
			3.5	4.0	4.5	$12.0 \pm 0.05$	$2 \pm 0.05$	0 to +60	$70 \pm 2$	Minimum
Input current $I_{dc}$	A	$I_{in}$	—	1.0	1.5	$12.0 \pm 0.05$	0	0 to +60	$70 \pm 2$	
Oscillation frequency	kHz	$F_L$	50	55	60	$12.0 \pm 0.05$	0	0 to +60	$70 \pm 2$	
Open circuit output voltage $E_{rms}$	kV	$V_{open}$	1.5	1.6	—	$10.8 \pm 0.05$	0	0 to +60	$\infty$	

## TYPICAL CONNECTIONS

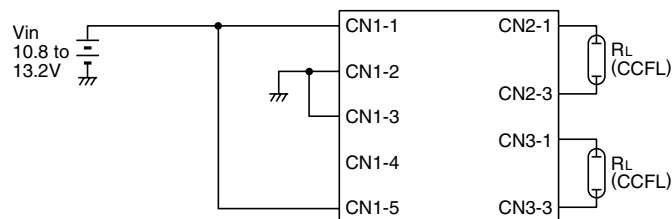
### EXAMPLE OF VOLTAGE DIMMER CONTROL



### EXAMPLE OF POTENTIOMETER DIMMER CONTROL



### NO DIMMER CONTROL (BRIGHTNESS MAX.)



\* SW a:on, b:off

## BRIGHTNESS DIMMER VOLTAGE- OUTPUT CURRENT CHARACTERISTICS

