

DC to AC Inverters

Conformity to RoHS Directive

Connector type, Dimming, 8W, for 2 Bulbs

CXA Series CXA-0308

FEATURES

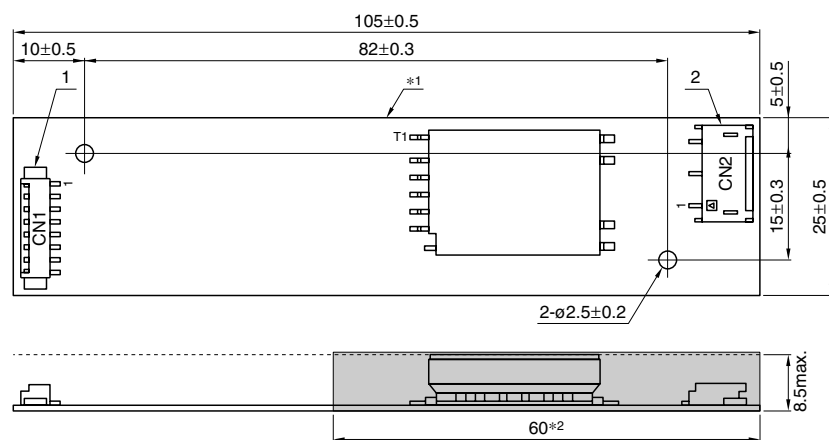
- For 2 bulbs.
- Corresponding to wide operating temperature range.
- Applicable panel size* : 10 to 12-inch
- With brightness control function (Pulse Wide Modulation mode).
- With lamp failure detector.
- The high-voltage terminals and patterns are coated with silicone so as to avoid the defects caused 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	-10 to +70
	Storage	-30 to +85
Humidity range(%)RH		95max. [Maximum wet-bulb temperature 38°C . No dew.]

SHAPES AND DIMENSIONS



Weight: 20.0g typ.

Dimensions in mm

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

*2 : High-voltage generator (The entire surface within a range of 60mm away from the end of the base in the output)

	Connector manufacturer's company and type		Symbol	
1	Input connector	Molex Japan Co., Ltd.	53261-0871	CN1
2	Output connector	Japan Solderless Terminal Co., Ltd.	SM03(4.0)B-BHS-1	CN2

TERMINAL NUMBERS AND FUNCTIONS

CN1

Terminal No.	Function	Symbol
CN1-1	Input voltage Edc: 10.8 to 13.2V/12V[nom.]	Vin
CN1-2		
CN1-3	0V	GND
CN1-4		
CN1-5	Remote voltage Edc: 0 to 0.4V: off/2.5 to 13.2V:on	Vrmt
CN1-6	Brightness dimmer voltage *1 Edc: 0 to 2.5V(Maximum brightness on 0V)	Vbr1
	Brightness dimmer *2VR resistance VR: 0 to 50kΩ(Maximum brightness on 0Ω)	Rbr1
	Brightness dimmer voltage Edc: GND	Vbr2
CN1-7	Brightness dimmer VR resistance VR: 0 to 50kΩ	Rbr2
	Lamp failure detector 0V: Normal condition/5V: Abnormal condition	Vst

*1 Brightness can be controlled by adjusting Vbr within a range of 0 to 2.5V.

*2 Brightness can be controlled by adjusting Rbr within a range of 0 to 50kΩ.

CN2

Terminal No.	Function		Symbol
CN2-1	Output [Low voltage]	(2V)	V _{LOW}
CN2-2	Output 2 [High voltage] Irms	2 to 5mA	V _{HIGH2}
CN2-3	Output 1 [High voltage] Irms	2 to 5mA	V _{HIGH1}

- 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.

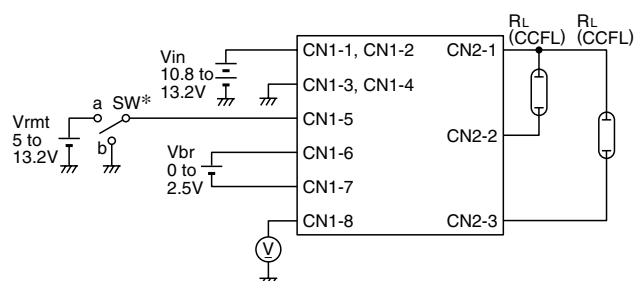
CXA-0308

ELECTRICAL CHARACTERISTICS

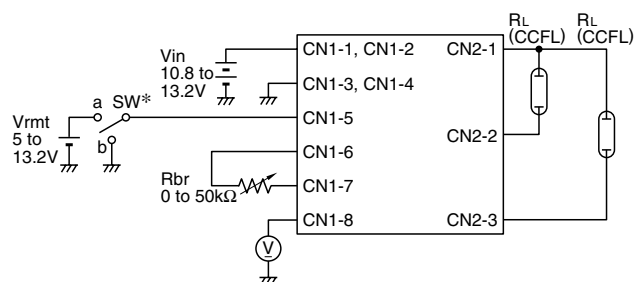
Item	Unit	Symbol	Specification			Condition			Brightness	
			min.	typ.	max.	Vin(V)	Vbr(V)/Rbr(kΩ)	Ta(°C)		RL(kΩ)
Output current I _{rms}	mA	I _{out}	4.3	5.0	5.7	12±1.2	0/0	-10 to +70	95 to 105	Maximum
			4.5	5.0	5.5	12±0.6	0/0	23±5	100	Maximum
			1.2	2.0	2.8	12±1.2	2.5/50	-10 to +70	95 to 105	Minimum
			1.3	2.0	2.7	12±0.6	2.5/50	23±5	95 to 105	Minimum
Input current I _{dc}	A	I _{in}	—	0.55	0.75	12±0.6	0/0	-10 to +70	100	
Oscillation frequency	kHz	F _L	50	55	60	12±0.6	0/0	-10 to +70	95 to 105	
Open circuit output voltage E _{rms}	kV	V _{open}	1.2	1.25	1.5	10.8min.	0/0	-10 to +70	∞	

TYPICAL CONNECTIONS

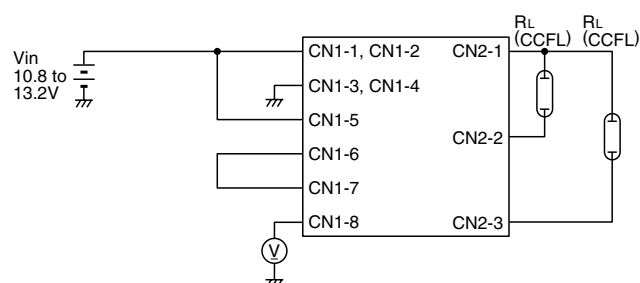
EXAMPLE OF VOLTAGE DIMMER CONTROL



EXAMPLE OF POTENTIOMETER DIMMER CONTROL



NO DIMMER CONTROL (BRIGHTNESS MAX.)



* SW a: on, b: off

BRIGHTNESS DIMMER VOLTAGE- OUTPUT CURRENT CHARACTERISTICS

