

DC to AC Inverters

Conformity to RoHS Directive

Connector type, Dimming, 5W, for 2 Bulbs

CXA Series CXA-0326

FEATURES

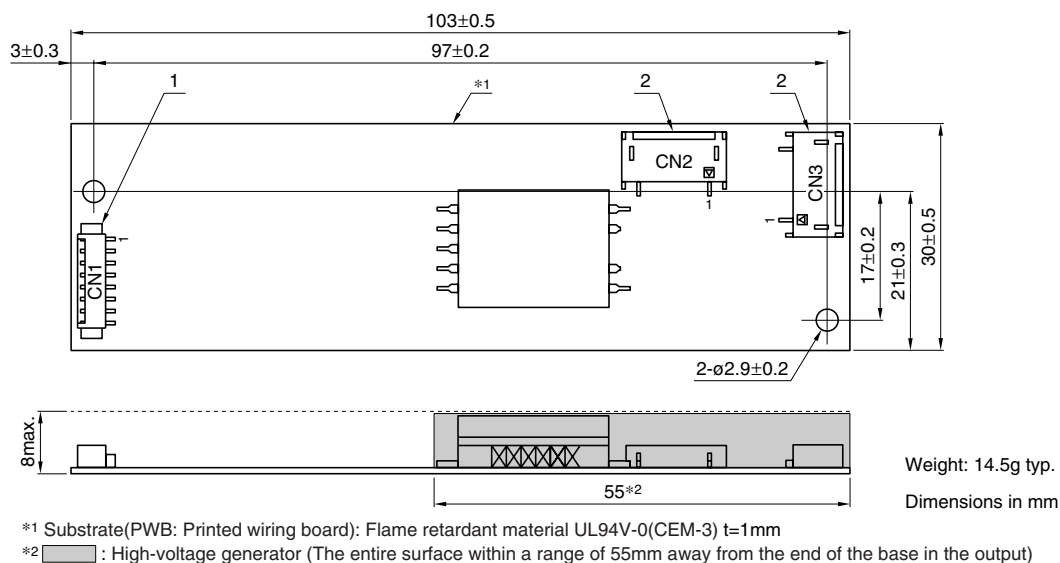
- For 2 bulbs.
- Applicable panel size* : 6 to 8-inch
- Corresponding to wide operating temperature range.
- With brightness control function (Pulse Wide Modulation mode).
- With lamp failure detector.
- The high-voltage terminals and patterns are coated with silicone so as to avoid the defects caused 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



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.	SM02(8.0)B-BHS-1	CN2, CN3

TERMINAL NUMBERS AND FUNCTIONS

CN1

Terminal No.	Function	Symbol
CN1-1	Input voltage Edc: 9.0 to 19.0V/12V[nom.]	Vin
CN1-2		
CN1-3	0V	GND
CN1-4		
CN1-5	Remote voltage Edc: 0 to 0.4V: off/2.5 to 19.0V:on V _{rmt}	
CN1-6	Brightness dimmer voltage *1 Edc: 0 to 2.5V(Maximum brightness on 0V)	V _{br1}
	Brightness dimmer *2VR resistance VR: 0 to 50kΩ(Maximum brightness on 0Ω)	R _{br1}
	Brightness dimmer voltage Edc: GND	V _{br2}
CN1-7	Brightness dimmer VR resistance VR: 0 to 50kΩ	R _{br2}
	Lamp failure detector 0V: Normal condition/5V: Abnormal condition	V _{st}

*1 Brightness can be controlled by adjusting V_{br} within a range of 0 to 2.5V.

*2 Brightness can be controlled by adjusting R_{br} within a range of 0 to 50kΩ.

CN2

Terminal No.	Function		Symbol
CN2-1	Output 1[High voltage] I _{rms}	2.7 to 5.5mA	V _{HIGH1}
CN2-2	—	—	N.C.
CN2-3	Output 1[Low voltage]	(2V)	V _{LOW1}

CN3

Terminal No.	Function		Symbol
CN3-1	Output 2[High voltage] I _{rms}	2.7 to 5.5mA	V _{HIGH2}
CN3-2	—	—	N.C.
CN3-3	Output 2[Low voltage]	(2V)	V _{LOW2}

• 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.

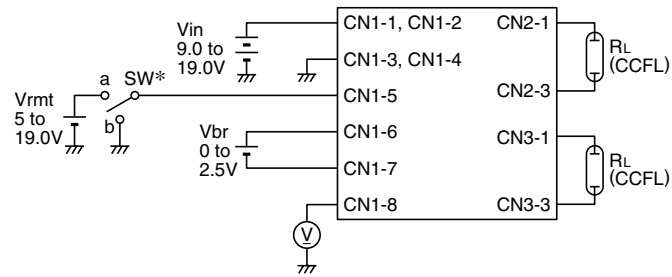
CXA-0326

ELECTRICAL CHARACTERISTICS

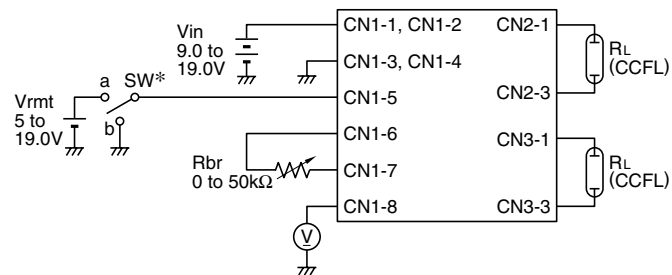
Item	Unit	Symbol	Specification			Condition			$R_L(k\Omega)$	Brightness
			min.	typ.	max.	$V_{in}(V)$	$V_{br}(V)/R_{br}(k\Omega)$	$T_a(^{\circ}C)$		
Output current I_{rms}	mA	I_{out}	4.9	5.5	6.1	12 ± 0.6	0/0	-10 to +70	68	Maximum
			2.1	2.7	3.3	12 ± 0.6	2.5/50	-10 to +70	68	Minimum
Input current I_{dc}	A	I_{in}	—	—	0.75	9 ± 0.5	0/0	-10 to +70	68	
Oscillation frequency	kHz	FL	49	55	61	12 ± 0.6	0/0	-10 to +70	68	
Open circuit output voltage E_{rms}	kV	V_{open}	1.0	1.3	1.5	9 ± 0.5	0/0	-10 to +70	∞	

TYPICAL CONNECTIONS

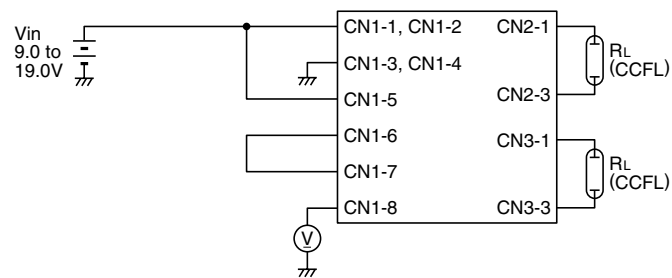
EXAMPLE OF VOLTAGE DIMMER CONTROL



EXAMPLE OF POTENTIOMETER DIMMER CONTROL



NO DIMMER CONTROL (BRIGHTNESS MAX.)



* SW a:on, b:off

BRIGHTNESS DIMMER VOLTAGE- OUTPUT CURRENT CHARACTERISTICS

