TDK

DC to AC Inverters
Connector type, Dimming, 7W, for 2 Bulbs

Conformity to RoHS Directive

CXA Series CXA-0217

FEATURES

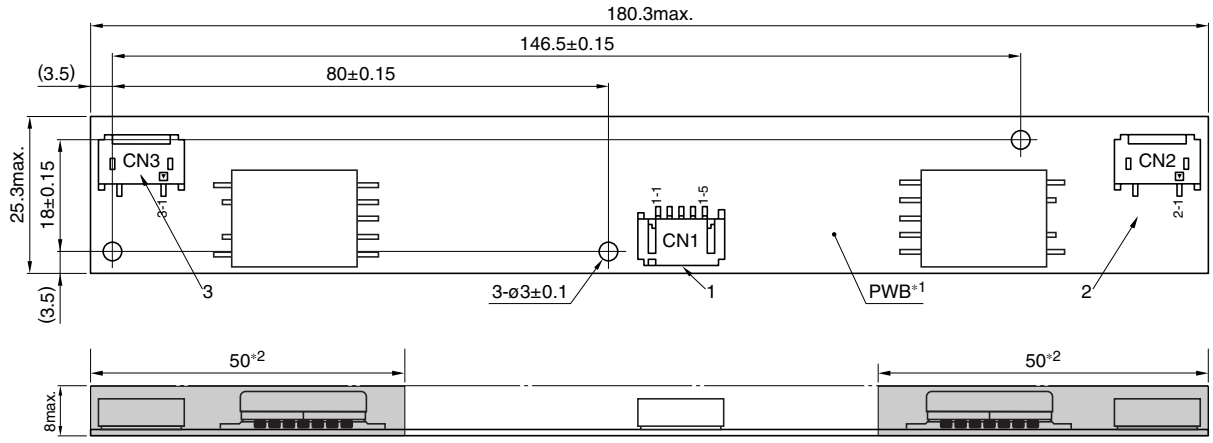
- For 2 bulbs.
- Applicable panel size* : 10 to 15-inch
- With brightness control function.
- The high-voltage terminals are coated with silicone so as to avoid the defects caused by dust.
- It is a product conforming to RoHS directive.

* The applicable panel size is for typical reference dimensions.

TEMPERATURE AND HUMIDITY RANGES

Temperature range (°C)	Operating	0 to +70
	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

*2 ▭: High-voltage generator (The entire surface within a range of 50mm away from the end of the base in the output)

Weight: 21g typ.

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
3	Output connector	Japan Solderless Terminal Co., Ltd.	SM02(8.0)B-BHS-1	CN3

TERMINAL NUMBERS AND FUNCTIONS

CN1

Terminal No.	Function	Symbol
CN1-1	Input voltage Edc: 9.6 to 14.4V/12V[nom.]	Vin
CN1-2	0V	GND
CN1-3	Brightness dimmer voltage Edc: 0 to 3.4V(Maximum brightness on 0V)	Vbr
CN1-4	Used in the internal circuits, do not connect.	N.C.
CN1-5	Remote voltage Edc 0V: off/5 to 7V:on	Vrmt

CN2

Terminal No.	Function		Symbol
CN2-1	Output 1[High voltage] Irms	2 to 6mA	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] Irms	2 to 6mA	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.

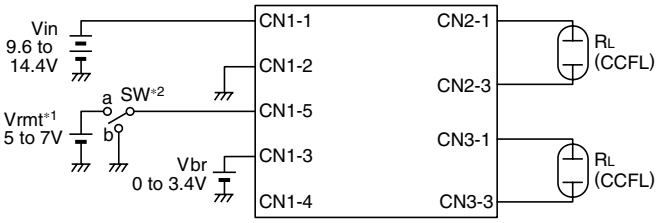
CXA-0217

ELECTRICAL CHARACTERISTICS

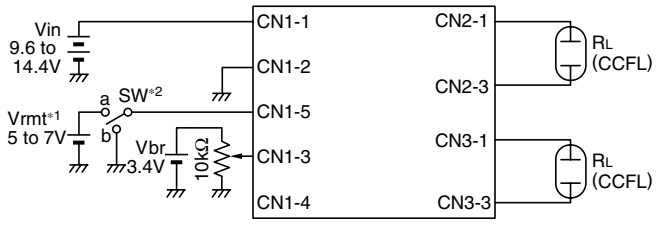
Item	Unit	Symbol	Specification			Condition				Brightness
			min.	typ.	max.	Vin(V)	Vbr(V)	Ta(°C)	RL(kΩ)	
Output current Irms	mA	Iout1	5.3	6	6.7	12±2.4	0	0 to +70	76 to 114	Maximum
		Iout2	5.3	6	6.7	12±2.4	0	0 to +70	76 to 114	Maximum
		Iout1	5.5	6	6.5	12±1.2	0	0 to +70	95	Maximum
		Iout2	5.5	6	6.5	12±1.2	0	0 to +70	95	Maximum
		Iout1	1.7	2	2.4	12±1.2	3.4	0 to +70	250	Minimum
		Iout2	1.7	2	2.4	12±1.2	3.4	0 to +70	250	Minimum
Input current Idc	A	Iin	—	0.76	1.3	12±2.4	0 to 3.4	0 to +70	76 to 114	
Oscillation frequency	kHz	FL	52	58	64	12±2.4	0	0 to +70	95	
Open circuit output voltage Erms	V	Vopen	1400	1500	2000	12±2.4	0 to 3.4	0 to +70	∞	

TYPICAL CONNECTIONS

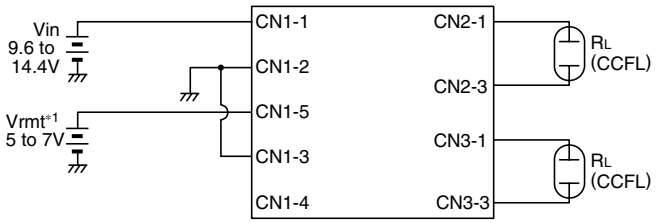
EXAMPLE OF VOLTAGE DIMMER CONTROL



EXAMPLE OF POTENTIOMETER DIMMER CONTROL



NO DIMMER CONTROL(BRIGHTNESS MAX.)



*1 Vrmt (remote voltage) shall be ON after Vin is ON.
*2 SW a:on, b:off

BRIGHTNESS DIMMER VOLTAGE- OUTPUT CURRENT CHARACTERISTICS