

Power Supplies
DC to AC Inverters
For 2 Bulb, 7W Diming

CXA Series CXA-M1112-VJ

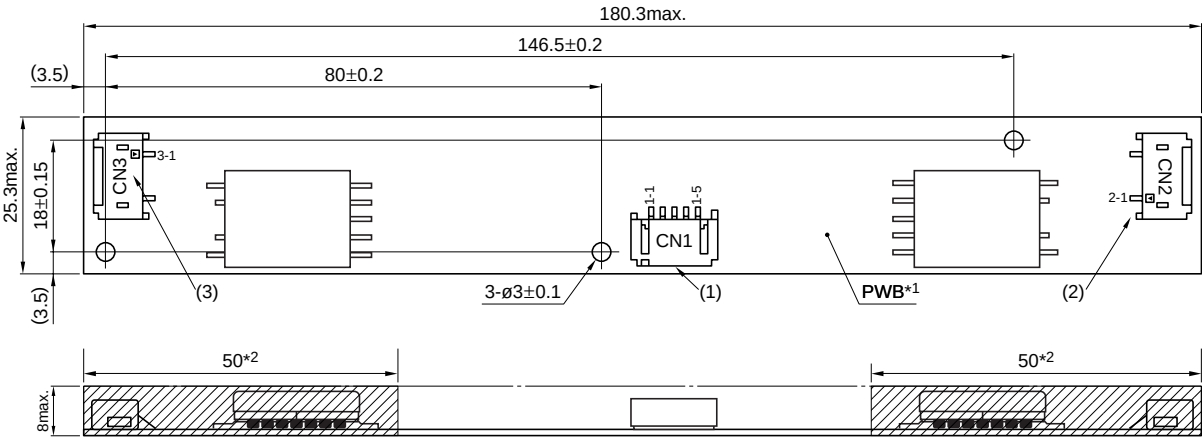
FEATURES

- Features a built-in dimmer.
- Because they employ advanced output current control, fluctuations in input voltage, load, and distributed capacitance have virtually no effect on brightness.
- Output open and short circuit conditions result in no damage, heat generation, or other difficulties.
- Because they have an alarm output function, abnormal condition in the lamp can be detected.
- The bottom of the board has a flat structure that facilitates insulation.

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]	

SHAPES AND DIMENSIONS



*1 Substrate(PWB: Printed wiring board): Inflammable material UL94V-0(FR-4 or CEM-3) t=1mm Weight: 21g typ.
*2 : High voltage generating part (all area within 50mm from the edge of output side of the substrate) Dimensions in mm

Connector manufacturer and type name			No. of connector pin
(1) Input connector	Japan Solderless Terminal Co., Ltd.	S5B-PH-SM3	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:8 to 20V	Vin
CN1-2	0V	GND
CN1-3	Brightness dimmer voltage Edc:0 to 3V (0V:Maximum dimmer)	Vbr
CN1-4	Alarm output: in abnormal situation 0V	Vst
CN1-5	remote operation voltage Edc 0V:off/5 to 7V:on	Vrmt

CN2

Terminal No.	Function	Symbol
CN2-1	Output [High voltage] Irms:2 to 5.5mA	VHIGH1
CN2-2	—	N.C.
CN2-3	Output[Low voltage]:(2V)	VLOW1

CN3

Terminal No.	Function	Symbol
CN3-1	Output [High voltage] Irms:2 to 5.5mA	VHIGH2
CN3-2	—	N.C.
CN3-3	Output[Low voltage]:(2V)	VLOW2

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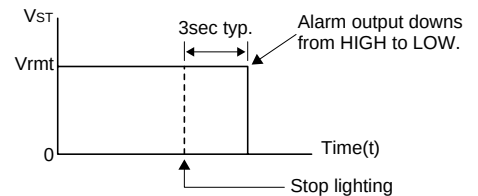
ELECTRICAL CHARACTERISTICS

Item	Unit	Specifications			Conditions						Brightness	
		min.	typ.	max.	Vin(V)	Vrmt(V)	Vbr(V)*1	Ta(C)	RL1(kΩ)	RL2(kΩ)		
Output current Irms	mA	Iout1/Iout2	4.6	5.5	6.3	8 to 20	5±0.25	0	0 to 60	90 to 120	90 to 120	Maximum
		Iout1/Iout2	4.9	5.5	6	12±1.2	5±0.25	0	25±5	110	110	Maximum
		Iout1/Iout2	—	2	2.5	8 to 20	5±0.25	3.5	0 to 60	335	335	Minimum
Input current Idc	A	Iin	—	0.71	1.37	8 to 20	5±0.25	0 to 3.5	0 to 60	90 to 120	90 to 120	
Oscillation frequency	kHz	FL	30	35	40	8 to 20	5±0.25	0	0 to 60	110	110	
Open circuit output voltage Erms	V	Vopen	1.4	1.5	—	8 to 20	5±0.25	0 to 3.5	0 to 60	∞	∞	
Alarm output Edc	V	VST	Vrmt ^{0.5}	Vrmt	—	8 to 20	5±0.25	0 to 3.5	0 to 60	90 to 335	90 to 335	Lamps are lighting normally
			—	0	0.5	8 to 20	5±0.25	0 to 3.5	0 to 60	∞	∞	Lamps is in an abnormal situation (not lighting)
			—	0	0.5	8 to 20	5±0.25	0 to 3.5	0 to 60	90 to 335	∞	Only one lamp is ligting
			—	0	0.5	8 to 20	5±0.25	0 to 3.5	0 to 60	∞	90 to 335	Only one lamp is ligting
Alarm output delay time	sec		—	3*2	11	—	—	—	—	—	—	

*1 Vbr also works as the remote function as stated below.

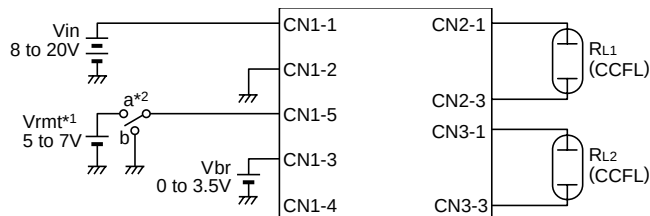
0 to 3.5V : Operate
4.5V over : Stop

*2 Alarm output terminal informs turning off of the light, however there is delay time (refer to the figure). For the detail about the alarm output, please refer to the specifications.

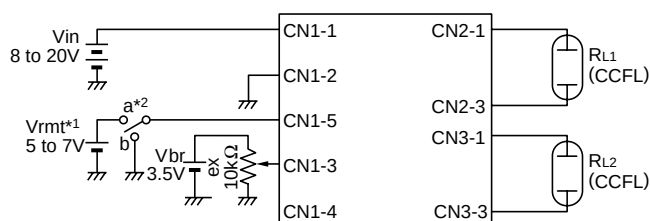


TYPICAL CONNECTIONS

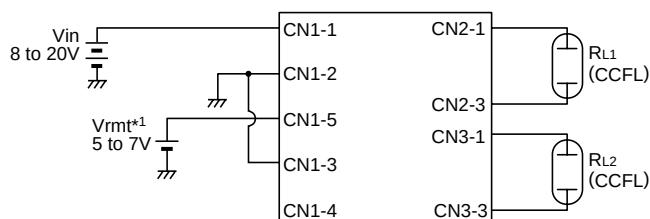
EXAMPLE OF VOLTAGE DIMMER CONTROL



EXAMPLE OF POTENTIOMETER DIMMER CONTROL



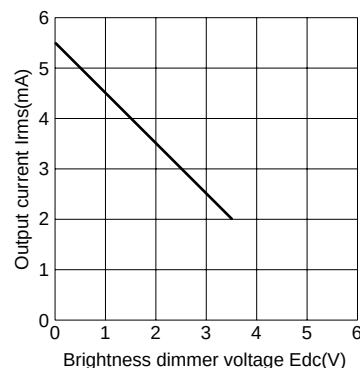
NO DIMMER CONTROL



*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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