

Power Supplies

DC to AC Inverters

For 1 Bulb, 4W Diming

CXA Series CXA-L0612

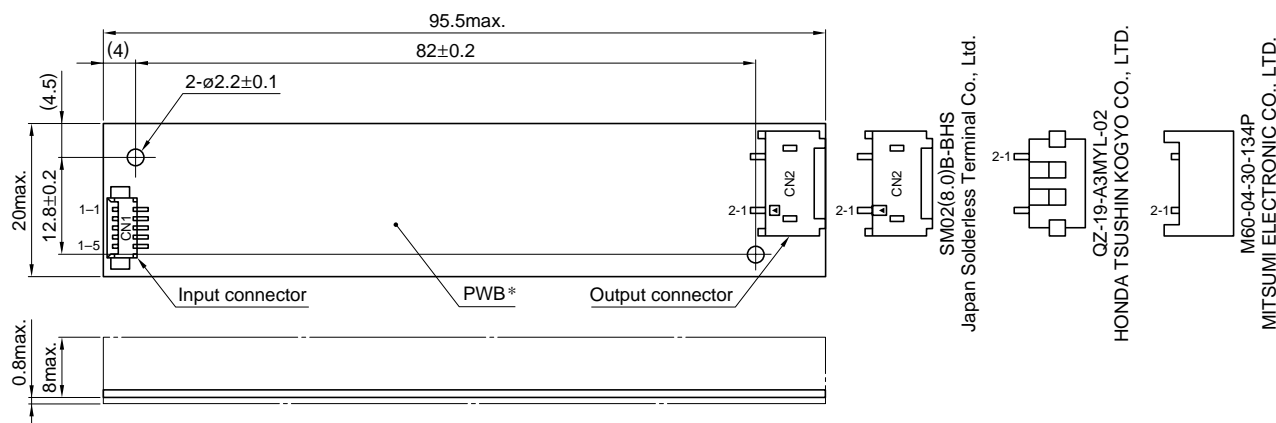
FEATURES

- The CXA-L0612 is an inverter for cold cathode fluorescent lamps and 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.
- This part is available with different output connectors and polarities to accommodate a variety of LCD panels.
- Built-in fuse assures a high degree of safety.
- Ideal for 9- to 13-inch class LCD panels.

TEMPERATURE AND HUMIDITY RANGES

Temperature range	Operating	0 to +50°C
	Storage	-30 to +85°C
Humidity range	95(%)RH max. [Maximum wet-bulb temperature 38°C]	

SHAPES AND DIMENSIONS



* Substrate (PWB: Printed wiring board): Inflammable material 94V-0 t=1mm Weight: 14.5g typ.

Dimensions in mm

Terminal No.	TDK part No.	Connector manufacturer and type name		No. of connector pin
CN1		Molex Japan Co., Ltd.	53261-0510	5
	CXA-L0612-VJR, CXA-L0612-VJL	Japan Solderless Terminal Co., Ltd.	SM02(8.0)B-BHS-1	3
CN2	CXA-L0612-VHR, CXA-L0612-VHL	HONDA TSUSHIN KOGYO CO., LTD.	QZ-19-A3MYL-02	3
	CXA-L0612-VMR, CXA-L0612-VML	MITSUMI ELECTRONIC CO., LTD.	M60-04-30-134P	4

TERMINAL NUMBERS AND FUNCTIONS

CN1

Terminal No.	Function
CN1-1	+Vin
CN1-2	-Vin(GND)
CN1-3	Vrmt (remote operation voltage: DC. 5 to 15V)
CN1-4	Vbr (Brightness dimmer voltage)
CN1-5	NC (Used in the internal circuits, does not use)

CN2

Terminal No.	Part No.					
	CXA-L0612-VJL	CXA-L0612-VJR	CXA-L0612-VHR	CXA-L0612-VHL	CXA-L0612-VML	CXA-L0612-VMR
CN2-1	lout	lout-return	lout	lout-return	lout	lout-return
CN2-2	NC	NC	NC	NC	NC	NC
CN2-3	lout-return	lout	lout-return	lout	NC	NC
CN2-4					lout-return	lout

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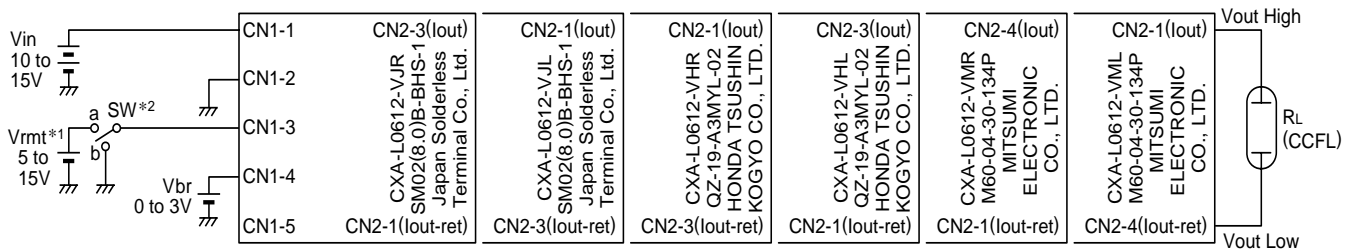
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ELECTRICAL CHARACTERISTICS

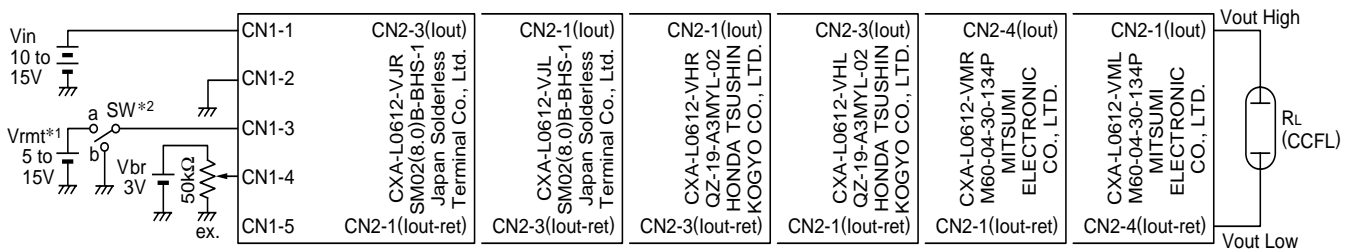
Items	Specifications			Conditions		Brightness				
	Minimum	Typical	Maximum	Vin(V)	Vbright(V)		Ta(°C)	RL(kΩ)		
Output current	I _{rms} (mA)	I _{out}	5.4	6	6.6	10 to 15	0	0 to +50	90 to 110	Maximum
			5.4	6	6.6	12	0	23±5	100	Maximum
			2.7	3	3.3	10 to 15	3	23±5	226	Minimum
Input current	I _{dc} (A)	I _{in}	—	0.4	0.73	10 to 15	0	0 to +50	90 to 110	
Oscillation frequency	(kHz)	f	35	45	55	10 to 15	0	0 to +50	90 to 110	
Open circuit output voltage	Erms(V)	V _{open}	1400	1500	—	10 to 15	0	0 to +50	∞	
Output power	(W)	P _{out}	—	—	4	10 to 15	0	0 to +50	—	

TYPICAL CONNECTIONS

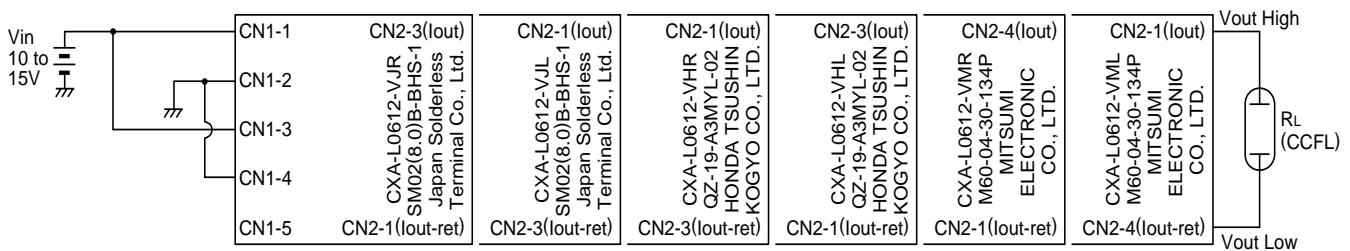
EXAMPLE OF VOLTAGE DIMMER CONTROL



EXAMPLE OF POTENTIOMETER DIMMER CONTROL



NO DIMMER CONTROL



*1 V_{rmt} (remote voltage) shall be ON after V_{in} was ON.

*2 SW a: ON, b: OFF

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TYPICAL ELECTRICAL CHARACTERISTICS

OUTPUT CURRENT vs. BRIGHTNESS DIMMER VOLTAGE

