

Power Supplies

CXA Series CXA-P20L-L

DC to AC Inverters

On-board type, Non-dimming, 9W, For 1 and 2 Bulbs

FEATURES

- The CXA-P20L-L inverter for 2-cold cathode fluorescent lamps supports a wide range of CCFL devices and is characterized by highly stable output current.
- Employing a resonance-type push-pull circuit, this inverter delivers sine wave output with very low noise levels.
- Through the use of four different connection methods and combinations of 1 and 2 lamps, different output currents can be selected.
- Compact, lightweight printed circuit board design.
- High efficiency (typically 80%).

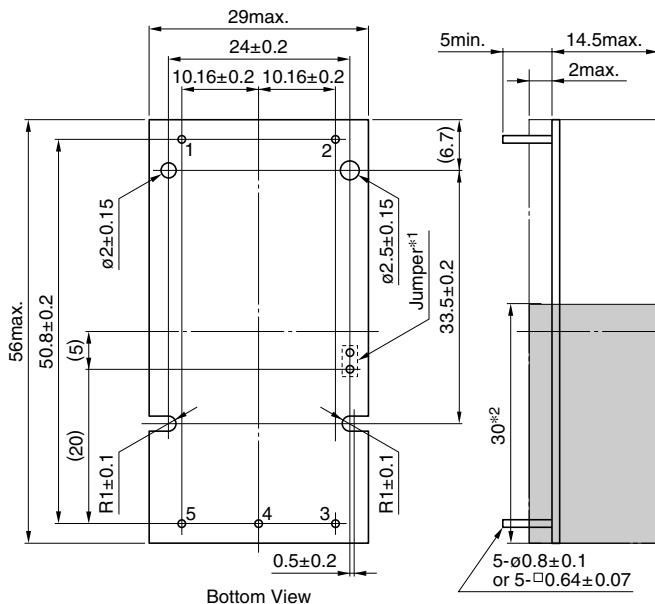
APPLICATIONS

Industrial and other equipment employing LCD panels, products employing small lamps, information terminal devices

TEMPERATURE AND HUMIDITY RANGES

Temperature range (°C)	Operating	-10 to +60
	Storage	-20 to +85
Humidity range(%)RH		95max.
		[Maximum wet-bulb temperature 38°C]

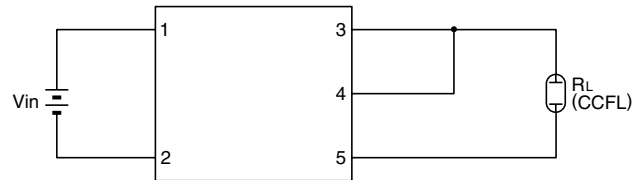
SHAPES AND DIMENSIONS



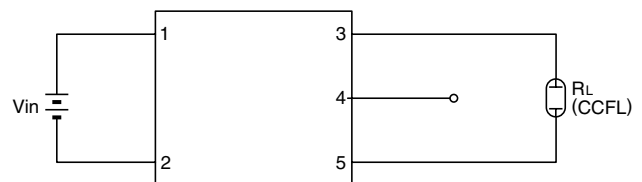
- *1 Terminal numbers 2 and 5 are connected by the jumper. Cut this jumper to let the secondary side float with respect to the primary side. Weight: 21g typ.
- *2 : High-voltage generator (The entire surface within a range of 30mm away from the end of the base in the output) Dimensions in mm

CIRCUIT DIAGRAMS

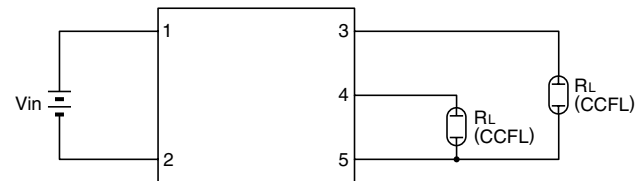
CONNECTION A



CONNECTION B



CONNECTION C



TERMINAL NUMBERS AND FUNCTIONS

Terminal No.	Functions		Symbol
1	Input voltage Edc	0 to 14.4V 12V[nom.]	Vin
2		0V	GND
3	Output 1 [High voltage] I rms	10mA	VHIGH1
4	Output 2 [High voltage] I rms	10mA	VHIGH2
5	Output[Low voltage]	0V	VLOW

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ELECTRICAL CHARACTERISTICS

12V INPUT TYPE/CXA-P20L-L

Connections	Items	Unit	Symbol	Specifications			Conditions		
				min.	typ.	max.	Vin(V)	Ta(°C)	RL(kΩ)
A	Output current Irms	mA	Iout	18	20	22	12±1%	23±5	15
				16	20	24	12±5%	-10 to +60	11.2 to 18.8
	Input current Idc	A	Iin	—	0.63	0.95	12±5%	-10 to +60	11.2 to 18.8
	Oscillation frequency	kHz	FL	23	28	33	12±5%	-10 to +60	11.2 to 18.8
	Open circuit output voltage Erms	V	Vopen	800	900	—	12±5%	-10 to +60	∞
	Output power	W	Pout	—	—	9	12±5%	-10 to +60	—
B	Output current Irms	mA	Iout	10	12	13	12±1%	23±5	25
				9	12	14	12±5%	-10 to +60	19 to 31
	Input current Idc	A	Iin	—	0.42	0.64	12±5%	-10 to +60	19 to 31
	Oscillation frequency	kHz	FL	27	32	37	12±5%	-10 to +60	19 to 31
	Open circuit output voltage Erms	V	Vopen	800	900	—	12±5%	-10 to +60	∞
	Output power	W	Pout	—	—	5.4	12±5%	-10 to +60	—
C	Output current Irms	mA	Iout1	9	10	11	12±1%	23±5	30
			Iout2	9	10	11	12±1%	23±5	30
			Iout1	8	10	12	12±5%	-10 to +60	22.5 to 37.5
			Iout2	8	10	12	12±5%	-10 to +60	22.5 to 37.5
	Input current Idc	A	Iin	—	0.63	0.95	12±5%	-10 to +60	22.5 to 37.5
	Oscillation frequency	kHz	FL	23	28	33	12±5%	-10 to +60	22.5 to 37.5
	Open circuit output voltage Erms	V	Vopen	800	900	—	12±5%	-10 to +60	∞
	Output power	W	Pout	—	—	9	12±5%	-10 to +60	—

