

On-board type, Non-dimming, 8.4W, For 1 and 2 bulbs

TDK DC-AC Inverter

# CXA-M14L-P

## FEATURES

- The CXA-M14L-P 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%).
- Safe design that includes a built-in overcurrent protection element.

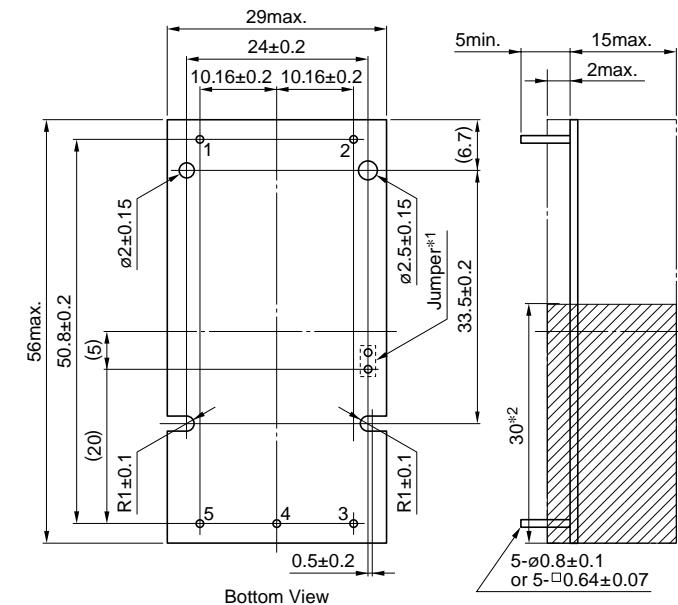
## APPLICATIONS

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



\*<sup>1</sup> 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.

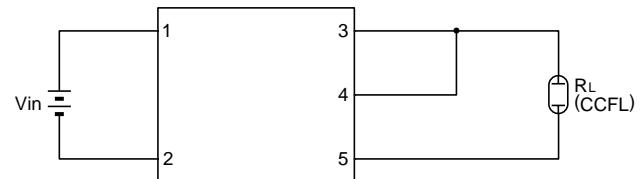
\*<sup>2</sup> High-voltage generator (The entire surface within a range of 30mm away from the end of the base in the output)

Weight: 21g typ.

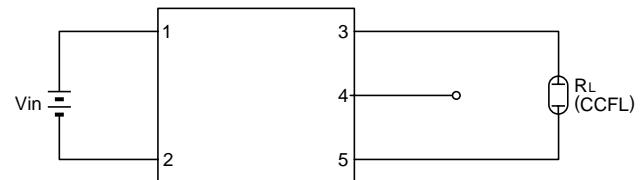
Dimensions in mm

## CIRCUIT DIAGRAMS

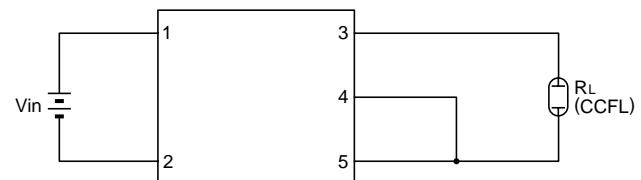
### CONNECTION A



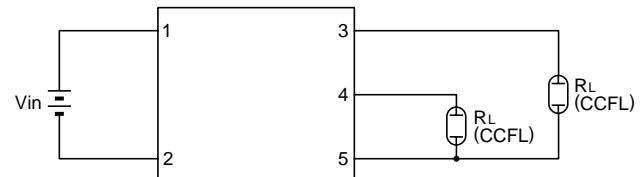
### CONNECTION B



### CONNECTION C



### CONNECTION D



## 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] Irms	V <sub>HIGH1</sub>
4	Output 2 [High voltage] Irms	V <sub>HIGH2</sub>
5	Output[Low voltage]	V <sub>LOW</sub>

On-board type, Non-dimming, 8.4W, For 1 and 2 bulbs

TDK DC-AC Inverter

# CXA-M14L-P

## ELECTRICAL CHARACTERISTICS

### 12V INPUT TYPE/CXA-M14L-P

Connections	Items	Unit	Symbol	Specifications			Conditions		
				min.	typ.	max.	Vin(V)	Ta(°C)	R <sub>L</sub> (kΩ)
A	Output current Irms	mA	Iout	12.6 11.2	14 14	15.4 16.8	12±1% 12±5%	23±5 -10 to +60	28.5 21.5 to 35.5
	Input current Idc	A	Iin	—	0.57	0.86	12±5%	-10 to +60	21.5 to 35.5
	Oscillation frequency	kHz	F <sub>L</sub>	23	28	33	12±5%	-10 to +60	21.5 to 35.5
	Open circuit output voltage Erms	V	Vopen	1300	1500	—	12±5%	-10 to +60	∞
B	Output power	W	Pout	—	—	8.4	12±5%	-10 to +60	—
	Output current Irms	mA	Iout	7 6.2	8 8	9 9.8	12±1% 12±5%	23±5 -10 to +60	50 37.5 to 62.5
	Input current Idc	A	Iin	—	0.36	0.54	12±5%	-10 to +60	37.5 to 62.5
	Oscillation frequency	kHz	F <sub>L</sub>	27	32	37	12±5%	-10 to +60	37.5 to 62.5
C	Open circuit output voltage Erms	V	Vopen	1300	1500	—	12±5%	-10 to +60	∞
	Output power	W	Pout	—	—	4.8	12±5%	-10 to +60	—
	Output current Irms	mA	Iout	6.1 5.4	7 7	7.9 8.6	12±1% 12±5%	23±5 -10 to +60	57 43 to 71
	Input current Idc	A	Iin	—	0.33	0.5	12±5%	-10 to +60	43 to 71
D	Oscillation frequency	kHz	F <sub>L</sub>	23	28	33	12±5%	-10 to +60	43 to 71
	Open circuit output voltage Erms	V	Vopen	1300	1500	—	12±5%	-10 to +60	∞
	Output power	W	Pout	—	—	4.2	12±5%	-10 to +60	—
	Output current Irms	mA	Iout1 Iout2	6.3 6.3	7 7	7.7 7.7	12±1% 12±1%	23±5 23±5	57 57
D	Input current Idc	A	Iin	—	0.57	0.86	12±5%	-10 to +60	43 to 71
	Oscillation frequency	kHz	F <sub>L</sub>	23	28	33	12±5%	-10 to +60	43 to 71
	Open circuit output voltage Erms	V	Vopen	1300	1500	—	12±5%	-10 to +60	∞
	Output power	W	Pout	—	—	4.2×2	12±5%	-10 to +60	—

