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.

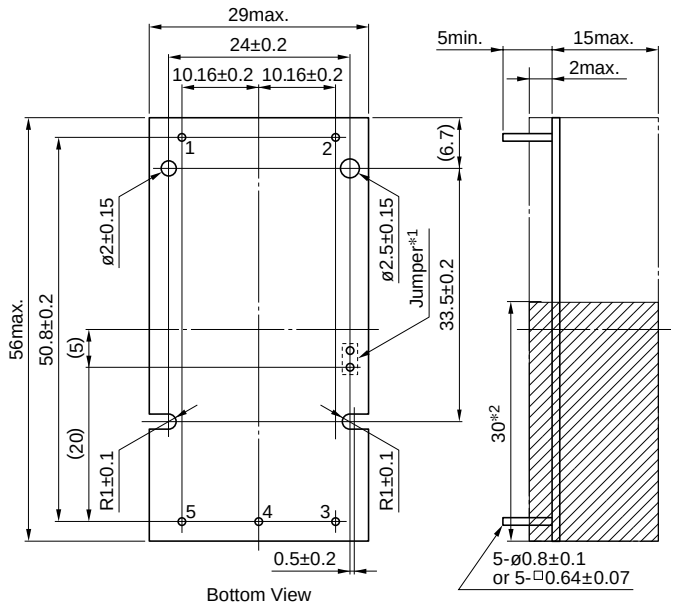
APPLICATIONS

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



Bottom View

*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.

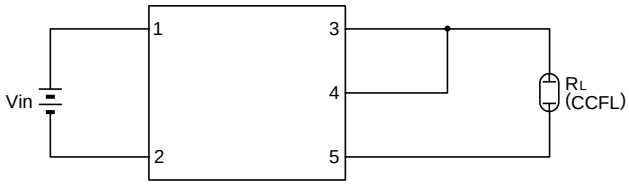
*2 High-voltage generator (The entire surface within a range of 30mm away from the end of the base in the output)

Weight: 21g typ.

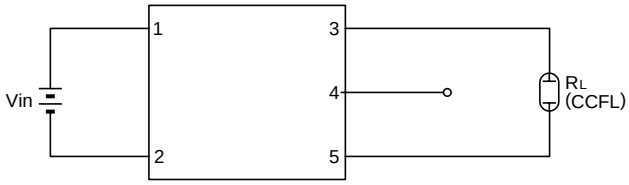
Dimensions in mm

CIRCUIT DIAGRAMS

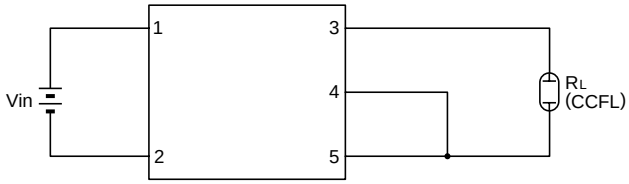
CONNECTION A



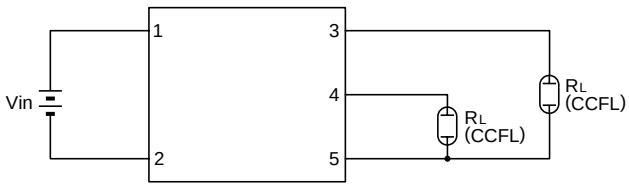
CONNECTION B



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	7mA	V_{HIGH1}
4	Output 2 [High voltage] Irms	7mA	V_{HIGH2}
5	Output[Low voltage]	0V	V_{LOW}

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

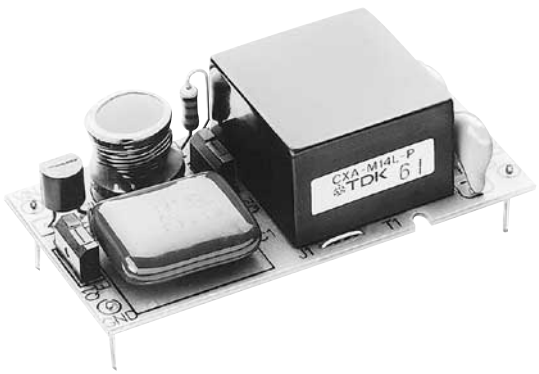
TDK DC-AC Inverter

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_L(kΩ)
A	Output current Irms	mA	Iout	12.6	14	15.4	12±1%	23±5	28.5
				11.2	14	16.8	12±5%	–10 to +60	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_L	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	∞
	Output power	W	Pout	—	—	8.4	12±5%	–10 to +60	—
B	Output current Irms	mA	Iout	7	8	9	12±1%	23±5	50
				6.2	8	9.8	12±5%	–10 to +60	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_L	27	32	37	12±5%	–10 to +60	37.5 to 62.5
	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	—
C	Output current Irms	mA	Iout	6.1	7	7.9	12±1%	23±5	57
				5.4	7	8.6	12±5%	–10 to +60	43 to 71
	Input current Idc	A	Iin	—	0.33	0.5	12±5%	–10 to +60	43 to 71
	Oscillation frequency	kHz	F_L	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	—
D	Output current Irms	mA	Iout1	6.3	7	7.7	12±1%	23±5	57
			Iout2	6.3	7	7.7	12±1%	23±5	57
			Iout1	5.6	7	8.4	12±5%	–10 to +60	43 to 71
			Iout2	5.6	7	8.4	12±5%	–10 to +60	43 to 71
	Input current Idc	A	Iin	—	0.57	0.86	12±5%	–10 to +60	43 to 71
	Oscillation frequency	kHz	F_L	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	—



All specifications are subject to change without notice.

TDK