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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.

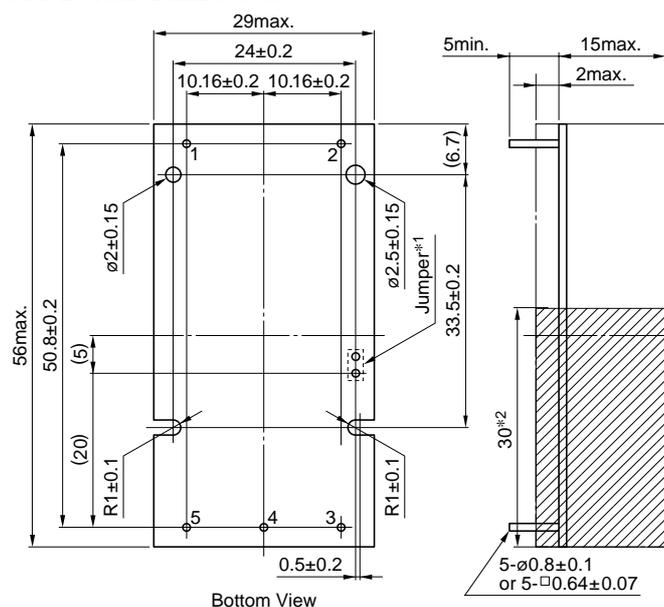
APPLICATIONS

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

TEMPERATURE AND HUMIDITY RANGES

Temperature range	Operating	-10 to +60
(°C)	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.

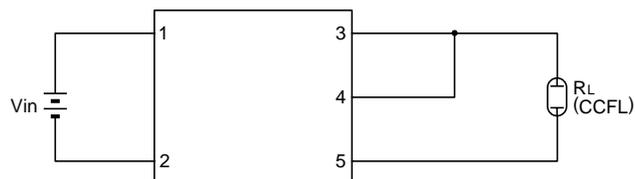
Weight: 21g typ.

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

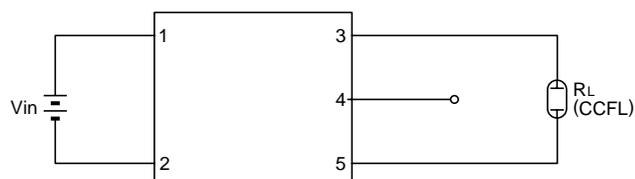
Dimensions in mm

CIRCUIT DIAGRAMS

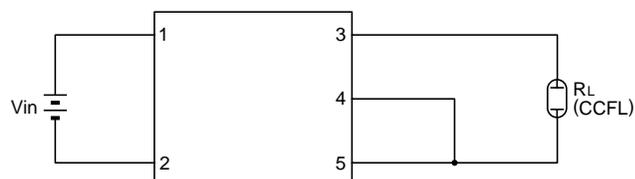
CONNECTION A



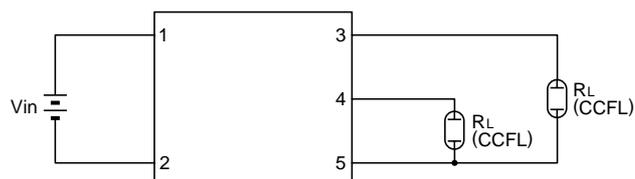
CONNECTION B



CONNECTION C



CONNECTION D



TERMINAL NUMBERS AND FUNCTIONS

Terminal No.	Functions		Symbol
1	Input voltage Edc	0 to 14.4V 12V[nom.]	V _{in}
2		0V	GND
3	Output 1 [High voltage] I _{rms}	7mA	V _{HIGH1}
4	Output 2 [High voltage] I _{rms}	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.	V _{in} (V)	T _a (°C)	R _L (kΩ)
A	Output current I _{rms}	mA	I _{out}	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 I _{dc}	A	I _{in}	—	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 E _{rms}	V	V _{open}	1300	1500	—	12±5%	-10 to +60	∞
Output power	W	P _{out}	—	—	8.4	12±5%	-10 to +60	—	
B	Output current I _{rms}	mA	I _{out}	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 I _{dc}	A	I _{in}	—	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 E _{rms}	V	V _{open}	1300	1500	—	12±5%	-10 to +60	∞
Output power	W	P _{out}	—	—	4.8	12±5%	-10 to +60	—	
C	Output current I _{rms}	mA	I _{out}	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 I _{dc}	A	I _{in}	—	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 E _{rms}	V	V _{open}	1300	1500	—	12±5%	-10 to +60	∞
Output power	W	P _{out}	—	—	4.2	12±5%	-10 to +60	—	
D	Output current I _{rms}	mA	I _{out1}	6.3	7	7.7	12±1%	23±5	57
			I _{out2}	6.3	7	7.7	12±1%	23±5	57
			I _{out1}	5.6	7	8.4	12±5%	-10 to +60	43 to 71
			I _{out2}	5.6	7	8.4	12±5%	-10 to +60	43 to 71
	Input current I _{dc}	A	I _{in}	—	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 E _{rms}	V	V _{open}	1300	1500	—	12±5%	-10 to +60	∞
Output power	W	P _{out}	—	—	4.2×2	12±5%	-10 to +60	—	

