

RL (CCFL)

DC to AC Inverters

Conformity to RoHS Directive

On-board type, Non-dimming, 8.4W, for 1 and 2 Bulbs

CXA Series 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.
- It is a product conforming to RoHS directive.

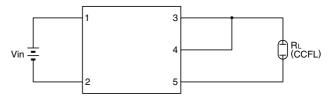
APPLICATIONS

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

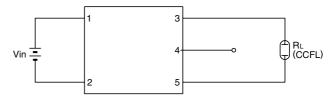
TEMPERATURE AND HUMIDITY RANGES

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

CIRCUIT DIAGRAMS CONNECTION A



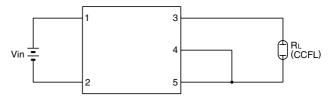
CONNECTION B



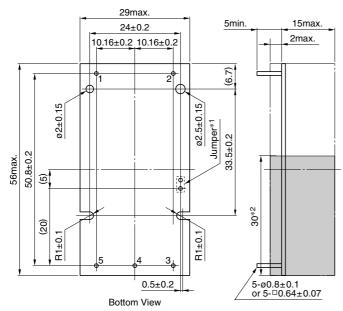
CONNECTION C

CONNECTION D

Vin



SHAPES AND DIMENSIONS



TERMINAL NUMBERS AND FUNCTIONS

Terminal No.	Functions		Symbol
1	Input voltage Edc	11.4 to 12.6V 12V[nom.]	Vin
2		0V	GND
3	Output 1 [High voltage] Irms	7mA	VHIGH1
4	Output 2 [High voltage] Irms	7mA	VHIGH2
5	Output[Low voltage]	OV	VLOW

- *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

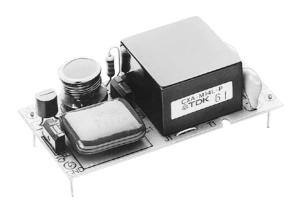
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.



CXA-M14L-P

ELECTRICAL CHARACTERISTICS 12V INPUT TYPE/CXA-M14L-P

Connections	Items	Unit	Symbol	Specifications			Conditions		
				min.	typ.	max.	Vin(V)	Ta(°C)	RL(kΩ)
A	Output current Irms	mA	lout	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	Α	lin	_	0.57	0.86	12±5%	-10 to +60	21.5 to 35.5
	Oscillation frequency	kHz	FL	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	_
В	Output current Irms	mA	lout	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	Α	lin	_	0.36	0.54	12±5%	-10 to +60	37.5 to 62.5
	Oscillation frequency	kHz	FL	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	_
С	Output current Irms	mA	la. d	6.1	7	7.9	12±1%	23±5	57
			lout	5.4	7	8.6	12±5%	-10 to +60	43 to 71
	Input current Idc	Α	lin	_	0.33	0.5	12±5%	-10 to +60	43 to 71
	Oscillation frequency	kHz	FL	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	lout1	6.3	7	7.7	12±1%	23±5	57
			lout2	6.3	7	7.7	12±1%	23±5	57
			lout1	5.6	7	8.4	12±5%	-10 to +60	43 to 71
			lout2	5.6	7	8.4	12±5%	-10 to +60	43 to 71
	Input current Idc	Α	lin	_	0.57	0.86	12±5%	-10 to +60	43 to 71
	Oscillation frequency	kHz	FL	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.