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TDK DC-AC Inverter

FEATURES

- The CXA-P10 series inverters for 2-cold cathode fluorescent lamps support a wide range of CCFL devices and are characterized by highly stable output current.
- Employing a resonance-type push-pull circuit, these inverters deliver 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.
- Safe design that includes a built-in overcurrent protection element.

APPLICATIONS

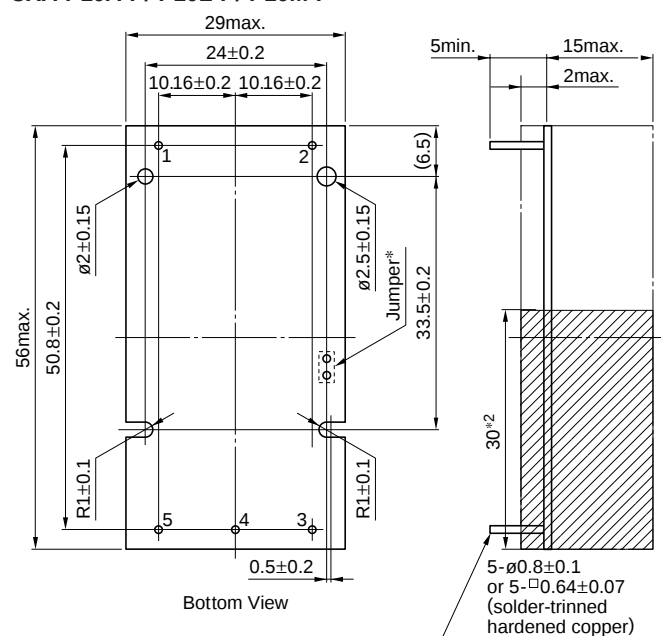
Industrial and other equipment employing LCD panels, products employing small lamps, information terminal devices.

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

CXA-P10A-P/-P10L-P/-P10M-P



*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: 25g typ.

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

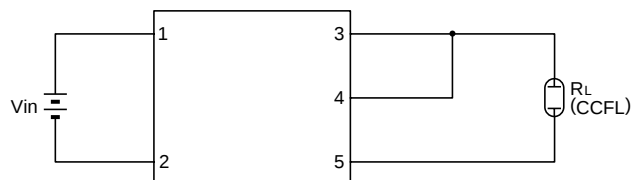
Dimensions in mm

TERMINAL NUMBERS AND FUNCTIONS

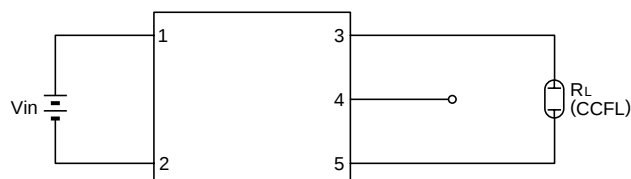
Terminal No.	Functions	CXA-P10A-P	CXA-P10L-P	CXA-P10M-P	Symbol
1	Input voltage Edc	0 to 6V 5V[nom.]	0 to 14.4V 12V[nom.]	0 to 28.8V 24V[nom.]	V _{in}
2		0V	0V	0V	GND
3	Output 1[High voltage] I _{rms}	5mA	5mA	5mA	V _{HIGH1}
4	Output 2[High voltage] I _{rms}	5mA	5mA	5mA	V _{HIGH2}
5	Output [Low voltage]	0V	0V	0V	V _{LOW}

CIRCUIT DIAGRAMS

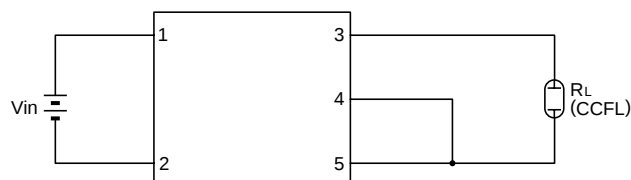
CONNECTION A



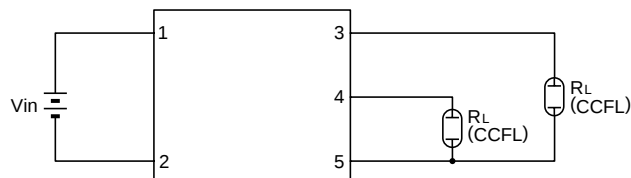
CONNECTION B



CONNECTION C



CONNECTION D



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

TDK DC-AC Inverter

CXA-P10A-P/-P10L-P/-P10M-P

ELECTRICAL CHARACTERISTICS

5V INPUT TYPE/CXA-P10A-P

Connections	Items	Unit	Symbol	Specifications			Conditions		
				min.	typ.	max.	Vin(V)	Ta(°C)	RL(kΩ)
A	Output current Irms	mA	Iout	9	10	11	5±1%	23±5	60
				8	10	12	5±5%	−10 to +60	50 to 70
	Input current Idc	A	Iin	—	1.56	2.34	5±5%	−10 to +60	50 to 70
	Oscillation frequency	kHz	FL	32	37	42	5±5%	−10 to +60	50 to 70
	Open circuit output voltage Erms	V	Vopen	1300	1500	—	5±5%	−10 to +60	∞
	Output power	W	Pout	—	—	9	5±5%	−10 to +60	—
B	Output current Irms	mA	Iout	5.1	6	6.5	5±1%	23±5	100
				4.5	6	7.1	5±5%	−10 to +60	80 to 120
	Input current Idc	A	Iin	—	0.92	1.35	5±5%	−10 to +60	80 to 120
	Oscillation frequency	kHz	FL	37	42	47	5±5%	−10 to +60	80 to 120
	Open circuit output voltage Erms	V	Vopen	1300	1500	—	5±5%	−10 to +60	∞
	Output power	W	Pout	—	—	5.4	5±5%	−10 to +60	—
C	Output current Irms	mA	Iout	4.3	5	5.5	5±1%	23±5	120
				3.8	5	6	5±5%	−10 to +60	100 to 140
	Input current Idc	A	Iin	—	0.86	1.28	5±5%	−10 to +60	100 to 140
	Oscillation frequency	kHz	FL	32	37	42	5±5%	−10 to +60	100 to 140
	Open circuit output voltage Erms	V	Vopen	1300	1500	—	5±5%	−10 to +60	∞
	Output power	W	Pout	—	—	4.5	5±5%	−10 to +60	—
D	Output current Irms	mA	Iout1	4.5	5	5.5	5±1%	23±5	120
			Iout2	4.5	5	5.5	5±1%	23±5	120
			Iout1	4	5	6	5±5%	−10 to +60	100 to 140
			Iout2	4	5	6	5±5%	−10 to +60	100 to 140
	Input current Idc	A	Iin	—	1.47	2.21	5±5%	−10 to +60	100 to 140
	Oscillation frequency	kHz	FL	32	37	42	5±5%	−10 to +60	100 to 140
	Open circuit output voltage Erms	V	Vopen	1300	1500	—	5±5%	−10 to +60	∞
	Output power	W	Pout	—	—	4.5×2	5±5%	−10 to +60	—

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

TDK DC-AC Inverter

CXA-P10A-P/-P10L-P/-P10M-P

ELECTRICAL CHARACTERISTICS

12V INPUT TYPE/CXA-P10L-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}	9	10	11	12±1%	23±5	60
				8	10	12	12±5%	−10 to +60	50 to 70
	Input current I _{dc}	A	I _{in}	—	0.7	1.05	12±5%	−10 to +60	50 to 70
	Oscillation frequency	kHz	F _L	25	30	35	12±5%	−10 to +60	50 to 70
	Open circuit output voltage E _{rms}	V	V _{open}	1300	1500	—	12±5%	−10 to +60	∞
B	Output power	W	P _{out}	—	—	9	12±5%	−10 to +60	—
	Output current I _{rms}	mA	I _{out}	5.1	6	6.5	12±1%	23±5	100
				4.5	6	7.1	12±5%	−10 to +60	80 to 120
	Input current I _{dc}	A	I _{in}	—	0.4	0.6	12±5%	−10 to +60	80 to 120
	Oscillation frequency	kHz	F _L	29	34	39	12±5%	−10 to +60	80 to 120
C	Open circuit output voltage E _{rms}	V	V _{open}	1300	1500	—	12±5%	−10 to +60	∞
	Output power	W	P _{out}	—	—	5.4	12±5%	−10 to +60	—
	Output current I _{rms}	mA	I _{out}	4.3	5	5.5	12±1%	23±5	120
				3.8	5	6	12±5%	−10 to +60	100 to 140
	Input current I _{dc}	A	I _{in}	—	0.38	0.57	12±5%	−10 to +60	100 to 140
D	Oscillation frequency	kHz	F _L	25	30	35	12±5%	−10 to +60	100 to 140
	Open circuit output voltage E _{rms}	V	V _{open}	1300	1500	—	12±5%	−10 to +60	∞
	Output power	W	P _{out}	—	—	4.5	12±5%	−10 to +60	—
	Output current I _{rms}	mA	I _{out1}	4.5	5	5.5	12±1%	23±5	120
			I _{out2}	4.5	5	5.5	12±1%	23±5	120
			I _{out1}	4	5	6	12±5%	−10 to +60	100 to 140
			I _{out2}	4	5	6	12±5%	−10 to +60	100 to 140
	Input current I _{dc}	A	I _{in}	—	0.7	1.05	12±5%	−10 to +60	100 to 140
	Oscillation frequency	kHz	F _L	25	30	35	12±5%	−10 to +60	100 to 140
	Open circuit output voltage E _{rms}	V	V _{open}	1300	1500	—	12±5%	−10 to +60	∞
	Output power	W	P _{out}	—	—	4.5×2	12±5%	−10 to +60	—

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

TDK DC-AC Inverter

CXA-P10A-P/-P10L-P/-P10M-P

ELECTRICAL CHARACTERISTICS

24V INPUT TYPE/CXA-P10M-P

Connections	Items	Unit	Symbol	Specifications			Conditions		
				min.	typ.	max.	Vin(V)	Ta(°C)	RL(kΩ)
A	Output current Irms	mA	Iout	9	10	11	24±1%	23±5	60
				8	10	12	24±5%	-10 to +60	50 to 70
	Input current Idc	A	Iin	—	0.3	0.45	24±5%	-10 to +60	50 to 70
	Oscillation frequency	kHz	FL	21	26	31	24±5%	-10 to +60	50 to 70
	Open circuit output voltage Erms	V	Vopen	1300	1500	—	24±5%	-10 to +60	∞
	Output power	W	Pout	—	—	6	24±5%	-10 to +60	—
B	Output current Irms	mA	Iout	5.1	6	6.5	24±1%	23±5	100
				4.5	6	7.1	24±5%	-10 to +60	80 to 120
	Input current Idc	A	Iin	—	0.18	0.27	24±5%	-10 to +60	80 to 120
	Oscillation frequency	kHz	FL	25	30	35	24±5%	-10 to +60	80 to 120
	Open circuit output voltage Erms	V	Vopen	1300	1500	—	24±5%	-10 to +60	∞
C	Output current Irms	mA	Iout	4.3	5	5.5	24±1%	23±5	120
				3.8	5	6	24±5%	-10 to +60	100 to 140
	Input current Idc	A	Iin	—	0.17	0.26	24±5%	-10 to +60	100 to 140
	Oscillation frequency	kHz	FL	21	26	31	24±5%	-10 to +60	100 to 140
	Open circuit output voltage Erms	V	Vopen	1300	1500	—	24±5%	-10 to +60	∞
D	Output power	W	Pout	—	—	4.5	24±5%	-10 to +60	—
				—	—	4.5	24±5%	-10 to +60	—
	Output current Irms	mA	Iout1	4.5	5	5.5	24±1%	23±5	120
			Iout2	4.5	5	5.5	24±1%	23±5	120
			Iout1	4	5	6	24±5%	-10 to +60	100 to 140
			Iout2	4	5	6	24±5%	-10 to +60	100 to 140
	Input current Idc	A	Iin	—	0.3	0.45	24±5%	-10 to +60	100 to 140
	Oscillation frequency	kHz	FL	21	26	31	24±5%	-10 to +60	100 to 140
	Open circuit output voltage Erms	V	Vopen	1300	1500	—	24±5%	-10 to +60	∞
	Output power	W	Pout	—	—	4.5×2	24±5%	-10 to +60	—

