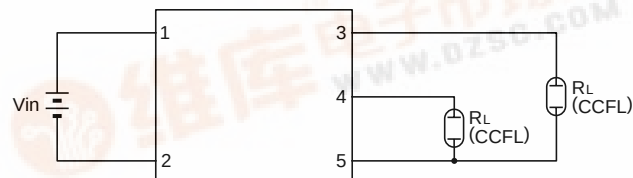


TDK DC-AC Inverter

CIRCUIT DIAGRAMS

- ## CONNECTION A



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

Technical drawing of a 5-pin D-sub connector. The drawing includes a front view and a side view.

Front View Dimensions:

- Overall width: 21max.
- Pin pitch: 2.54±0.2
- Pin diameter: 3-ø1.6±0.15
- Pin 1 to Pin 2 distance: 16.5±0.2
- Pin 2 to Pin 3 distance: 15.24±0.2
- Pin 3 to Pin 4 distance: 7.5±0.2
- Pin 4 to Pin 5 distance: 7.5±0.2
- Pin 1 to Pin 5 distance: 38.1±0.2
- Pin 1 to Pin 2 distance: 16.5±0.2
- Pin 2 to Pin 3 distance: 15.24±0.2
- Pin 3 to Pin 4 distance: 7.5±0.2
- Pin 4 to Pin 5 distance: 7.5±0.2
- Pin 1 to Pin 5 distance: 38.1±0.2
- Pin 1 to Pin 2 distance: 16.5±0.2
- Pin 2 to Pin 3 distance: 15.24±0.2
- Pin 3 to Pin 4 distance: 7.5±0.2
- Pin 4 to Pin 5 distance: 7.5±0.2

Side View Dimensions:

- Pin height: 5.08±0.2
- Total height: 38.1±0.2
- Mounting hole dimensions: 5min., 13max., 2max.
- Mounting hole diameter: 5-ø0.8±0.1 or 5-ø0.64±0.07
- Mounting hole spacing: 25*2

Notes:

- Jumper*1 (indicated by a dashed line between pins 3 and 4)
- R1.15±0.1 (fillet radius at the bottom of the connector body)

Bottom View

Weight: 11g typ.

Dimensions in mm

TERMINAL NUMBERS AND FUNCTIONS

Terminal No.	Functions	CXA-L10A	CXA-L10L	Symbol
1	Input voltage Edc	0 to 6V 5V[nom.]	0 to 14.4V 12V[nom.]	V _{in}
2		0V	0V	GND
3	Output 1 [High voltage] Irms	5mA	5mA	V _{HIGH1}
4	Output 2 [High voltage] Irms	5mA	5mA	V _{HIGH2}
5	Output[Low voltage]	0V	0V	V _{LOW}

On-board type, Non-dimming, 4.5W, For 1 and 2 bulbs

TDK DC-AC Inverter

CXA-L10A/-L10L

ELECTRICAL CHARACTERISTICS

5V INPUT TYPE/CXA-L10A

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 8	10 10	11 12	5±1% 5±5%	23±5 -10 to +60	30 23 to 37
	Input current I _{dc}	A	I _{in}	—	0.8	1.2	5±5%	-10 to +60	23 to 37
	Oscillation frequency	kHz	F _L	25	30	35	5±5%	-10 to +60	23 to 37
	Open circuit output voltage E _{rms}	V	V _{open}	800	900	—	5±5%	-10 to +60	∞
	Output power	W	P _{out}	—	—	4.5	5±5%	-10 to +60	—
B	Output current I _{rms}	mA	I _{out}	5.2 4.6	6 6	6.6 7.2	5±1% 5±5%	23±5 -10 to +60	50 38 to 62
	Input current I _{dc}	A	I _{in}	—	0.51	0.77	5±5%	-10 to +60	38 to 62
	Oscillation frequency	kHz	F _L	30	35	40	5±5%	-10 to +60	38 to 62
	Open circuit output voltage E _{rms}	V	V _{open}	800	900	—	5±5%	-10 to +60	∞
	Output power	W	P _{out}	—	—	2.7	5±5%	-10 to +60	—
C	Output current I _{rms}	mA	I _{out}	4.5 4	5 5	5.6 6.1	5±1% 5±5%	23±5 -10 to +60	60 45 to 75
	Input current I _{dc}	A	I _{in}	—	0.45	0.68	5±5%	-10 to +60	45 to 75
	Oscillation frequency	kHz	F _L	25	30	35	5±5%	-10 to +60	45 to 75
	Open circuit output voltage E _{rms}	V	V _{open}	800	900	—	5±5%	-10 to +60	∞
	Output power	W	P _{out}	—	—	2.25	5±5%	-10 to +60	—
D	Output current I _{rms}	mA	I _{out1}	4.5	5	5.5	5±1%	23±5	60
			I _{out2}	4.5	5	5.5	5±1%	23±5	60
			I _{out1}	4	5	6	5±5%	-10 to +60	45 to 75
			I _{out2}	4	5	6	5±5%	-10 to +60	45 to 75
	Input current I _{dc}	A	I _{in}	—	0.8	1.2	5±5%	-10 to +60	45 to 75
	Oscillation frequency	kHz	F _L	25	30	35	5±5%	-10 to +60	45 to 75
	Open circuit output voltage E _{rms}	V	V _{open}	800	900	—	5±5%	-10 to +60	∞
	Output power	W	P _{out}	—	—	2.25×2	5±5%	-10 to +60	—

On-board type, Non-dimming, 4.5W, For 1 and 2 bulbs

TDK DC-AC Inverter

CXA-L10A/-L10L

ELECTRICAL CHARACTERISTICS

12V INPUT TYPE/CXA-L10L

Connections	Items	Unit	Symbol	Specifications			Conditions		
				min.	typ.	max.	Vin(V)	Ta(°C)	RL(kΩ)
A	Output current Irms	mA	Iout	9 8	10 10	11 12	12±1% 12±5%	23±5 -10 to +60	30 23 to 37
	Input current Idc	A	Iin	—	0.32	0.48	12±5%	-10 to +60	23 to 37
	Oscillation frequency	kHz	FL	25	30	35	12±5%	-10 to +60	23 to 37
	Open circuit output voltage Erms	V	Vopen	800	900	—	12±5%	-10 to +60	∞
	Output power	W	Pout	—	—	4.5	12±5%	-10 to +60	—
B	Output current Irms	mA	Iout	5.3 4.7	6 6	6.7 7.3	12±1% 12±5%	23±5 -10 to +60	50 38 to 62
	Input current Idc	A	Iin	—	0.2	0.3	12±5%	-10 to +60	38 to 62
	Oscillation frequency	kHz	FL	30	35	40	12±5%	-10 to +60	38 to 62
	Open circuit output voltage Erms	V	Vopen	800	900	—	12±5%	-10 to +60	∞
	Output power	W	Pout	—	—	2.7	12±5%	-10 to +60	—
C	Output current Irms	mA	Iout	4.5 4	5 5	5.6 6.1	12±1% 12±5%	23±5 -10 to +60	60 45 to 75
	Input current Idc	A	Iin	—	0.18	0.27	12±5%	-10 to +60	45 to 75
	Oscillation frequency	kHz	FL	25	30	35	12±5%	-10 to +60	45 to 75
	Open circuit output voltage Erms	V	Vopen	800	900	—	12±5%	-10 to +60	∞
	Output power	W	Pout	—	—	2.25	12±5%	-10 to +60	—
D	Output current Irms	mA	Iout1	4.5	5	5.5	12±1%	23±5	60
			Iout2	4.5	5	5.5	12±1%	23±5	60
			Iout1	4	5	6	12±5%	-10 to +60	45 to 75
			Iout2	4	5	6	12±5%	-10 to +60	45 to 75
	Input current Idc	A	Iin	—	0.32	0.48	12±5%	-10 to +60	45 to 75
	Oscillation frequency	kHz	FL	25	30	35	12±5%	-10 to +60	45 to 75
	Open circuit output voltage Erms	V	Vopen	800	900	—	12±5%	-10 to +60	∞
	Output power	W	Pout	—	—	2.25×2	12±5%	-10 to +60	—

