TDK·Lambda

MESSRS :

Specification Comparison

CUSTOMER'S PRODUCT NAME:

TDK PRODUCT NAME: DC/AC INVERTER UNIT CXA-0547

TENTATIVE

TDK

TDK-Lambda Corporation

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DWG.No.	CTR-3911-X

The difference between CXA-0349 and CXA-0547.

*Product summary

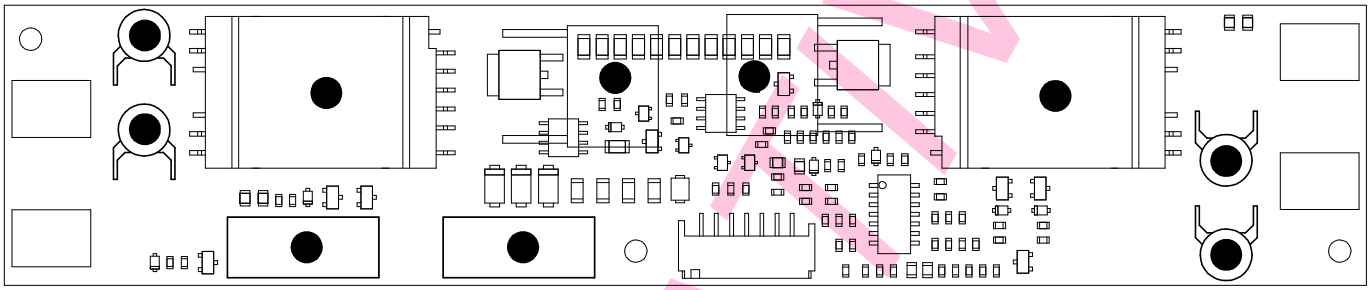
CXA-0547 expands operating temperature range to -20ºC~70ºC compared with CXA-0349.
At the same time, all components is mounted by machine. So human error reduces and reliability is improved.
Input fuse rating is changed because the lamp impedance at low temperature is high.
This product is expected stable supply to the customer by replacement of terminated components.

1.Appearance, dimension and pin configuration

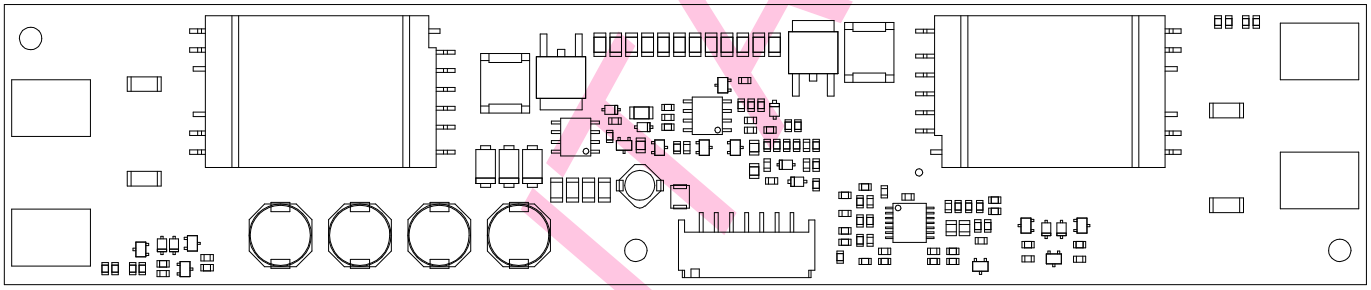
1-1.Appearance

The appearance of CXA-0547 is changed as follows because several component is changed from CXA-0349.

∴CXA-0349



∴CXA-0547



The CXA-0349 has several hand mount components indicated in ●.
All of components are mounted by machine in CXA-0547.

1-2.Dimension and Pin configuration

Dimension, Pin configuration, Mounting hole and Input Output connector are not changed.

P/N	X dimension	Y dimension	Z dimension	diameter of mounting hole	pitch of mounting hole
CXA-0349	180.0±0.5	37.0±0.5	12max	3.0±0.2	X: 80±0.3,93±0.3 Y: 28±0.3
CXA-0547	↑	↑	↑	↑	↑

Unit in mm

P/N	Input Connector	Output Connector
CXA-0349	S7B-PH-SM4-TB(LF)(SN)	SM02B-BHSS-1-TB(LF)(SN)
CXA-0547	↑	↑

No.	MATERIALS NAME	QU	MATERIAL	REMARK
PRODUCT NAME or MODEL,TITLE				
DC-AC INVERTER UNIT CXA-0547				

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<The drawing may be changed without any notice.>

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2.Absolute Maximum Ratings

CXA-0547 expands operating temprature range to -20ºC~70ºC compared with CXA-0349.
Except operating temprature range any specification is not changed.

Item	Symbol	CXA-0349	CXA-0547	Unit	Remark
Input Voltage	Vin	0~14.4	←	V	
	Vrmt	0~Vin	←	V	
	Vbr	0~Vin	←	V	
Load Resistance	RL	90	←	kΩ	
Operational Temperature range	Ta	-10~70	-20~70	ºC	
Storage Temperature range	Ts	-30~85	←	ºC	
Operational Humidity range	Ha	0~95	←	%RH.	Maximum wet bulb temperature is 38ºC. No dew.

3.Electrical Characterisitics

The maximum current specification changes to 2.2A from 2A because input current is increase in low temperature operation.

Item	Symbol	Condition					Specification						Unit
		Vin (V)	Vrmt (V)	Rbr(kΩ)/ Vbr(V)	Ta (ºC)	RL1,2,3,4 (kΩ)	CXA-0349			CXA-0547			
							MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	
Output Current (Maximim Brightness)	Iout	12± 1.2	5± 0.25	0 / 0	*1	80	6.2	6.9	7.6	←	←	←	mA rms
		12± 0.05	5± 0.25	0 / 0	23 ±5	80	6.4	6.9	7.4	←	←	←	
Output Current (Minimum Brightness)		12± 1.2	5± 0.25	50 / 2.5	*1	80	1.7	2.7	3.7	←	←	←	
Input Current1	Iin1	12± 1.2	5± 0.25	0 / 0	*1	80	-	1.6	2.0	←	←	2.2	A
Input Current2	Iin2	12± 1.2	0± 0.25	0 / 0	*1	80	-	0	1	←	←	←	mA
Oscillation Frequency	F1	12± 1.2	5± 0.25	0 / 0	*1	80	40	45	50	←	←	←	kHz
PWM Dimming Frequency	F2	12± 1.2	5± 0.25	50 / 2.5	*1	80	120	140	160	←	←	←	Hz
Open Output Voltage	Vopen	10.8± 0.05	5± 0.25	0 / 0	*1	∞	1800	2100	2400	←	←	←	Vrms
Warning Output	Vst	12± 1.2	5± 0.25	0 / 0	*1	RL1=∞ RL2,3,4=80	4.5	5.1	5.5	←	←	←	V
		12± 1.2	5± 0.25	0 / 0	*1	RL2=∞ RL1,3,4=80	4.5	5.1	5.5	←	←	←	
		12± 1.2	5± 0.25	0 / 0	*1	RL3=∞ RL1,2,4=80	4.5	5.1	5.5	←	←	←	
		12± 1.2	5± 0.25	0 / 0	*1	RL4=∞ RL1,2,3=80	4.5	5.1	5.5	←	←	←	
		12± 1.2	5± 0.25	0 / 0	*1	80	-	0.1	0.5	←	←	←	

*1 The ambient temperature of CXA-0349 is -10~70ºC and CXA-0547 is -20~70ºC.

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