

MESSRS :

Product Drawing

CUSTOMER'S PRODUCT NAME:

TDK PRODUCT NAME: DC/AC INVERTER UNIT CXA- P1012B-NJL

TENTATIVE

*Notice

Product Drawing is not contract. This is only technical data.

This technical data may change internal description without any notice.

When you design final product please request us specification through our sales or distributors. After you receive the specification, the contract is effective on signature of the specification.



TDK-Lambda Corporation

PREPARED BY	APPROVED BY	AUTHORIZED BY
April 16, 2010	April 16, 2010	April 16, 2010
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	Precautionary Notes Regarding the Use of This Inverter									
When using this product, give due consideration to the precautionary notes described below and ensure a safe design. Inappropriate use may result in electric shock, injury or fire.										
		🕂 Warning	Ĺ	<u>/</u>						
	This product is subject to high voltage. Do not touch it while the power is on. Failing to do so may result in electric shock.									
Caution										
Do not • Store th • Do not • This pri- provide • This pri- lf it is to transpo • Consul • Avoid u dust, di Also,be • If the p it is rec smoke Even w the circ It is rec be prov • Use the and op • Provide Abnorm • To prev appropri • This pri • In orde inverter. • Ripples depend When y	use it with any other load his product under the con- store this product in an e- oduct is subject to high vo- e a proper warning indicat oduct is designed for use obe used with medical ec- ortation equipment to whice t us before using if this pr- using this product under h- int or any corrosive gas (s- e careful not to allow the fi- roduct does not have a bu- or fire in the event of a m- then the product has a bu- suit may not function prop- bommended that an appro- vided separately from the e product only within the s- erating temperature range a measure for the preve- nal voltage may result in o- vent problems from occur ate measures to prevent fo- oduct is not designed to p- r to protect the inverter fro- s could be superimposed ling on the impedance in you select an input source	ditions defined in the specification of nvironment where dust, dirt or corro- oltage. If there is a possibility that the ion in order to draw the user's attent with general electronic equipment. quipment that directly affects human ch passengers entrust their lives, pro- oduct is to be installed in a habitual igh temperatures or high humidity of alt,acid,base, etc.) is present. ormation of dew condensation. It m uilt-in protective circuit (circuit break e used at the input stage to prevent alfunction. ilt-in protective circuit (circuit break erly due to inappropriate operating op- priate protective circuit (circuit break built-in circuit. specified input voltage, output powe es. Exceeding these values may re- ntion of surge voltage due to lightni	document. beive gas(salt,acid,base, he user may touch the pr ion. I life or for the control of ovide thorough fail-safe r l vibration environment (w ay result in damage or el- ker, fuse, etc.), the generation of er, fuse, etc.), conditions or power-supp aker, fuse, etc.) er, output voltage result in da mage, etc. ng, etc. he high voltage section, I the inverter after it is ins use all the mounting hole e input source connected the final set.	neasures. vehicle, etc nich lectric shoc bly capacity be sure to t talled. es when ins d to the inve	.). k. ake talling the					
		Handling Precautio								
as not	to cause wire breakage. o not stack multiple produ o not allow the product to t apply excessive stress of cause chipping and crac le clearance between the alled and also the conduct t use the product after it h	bserve the following precautions an Broken wire may result in damage, cts on top of one another. come in contact with tools, etc. during installation. king,resulting in damage, etc. high-voltage section of this product tor section as on page 2, [1] "Outli has been dropped because there is	etc. t and the frame body on a ne".							
		No. MATERIALS NAME QU	MATERIAL	REM	ARK					
			NAME or MODEL,TITLE FER UNIT CXA-P1012B-N							
		NAME OF DRAWING	DRAWING No		PAGE					
TI	DK-Lambda	Product Drawing	CTR-3833-X		1					

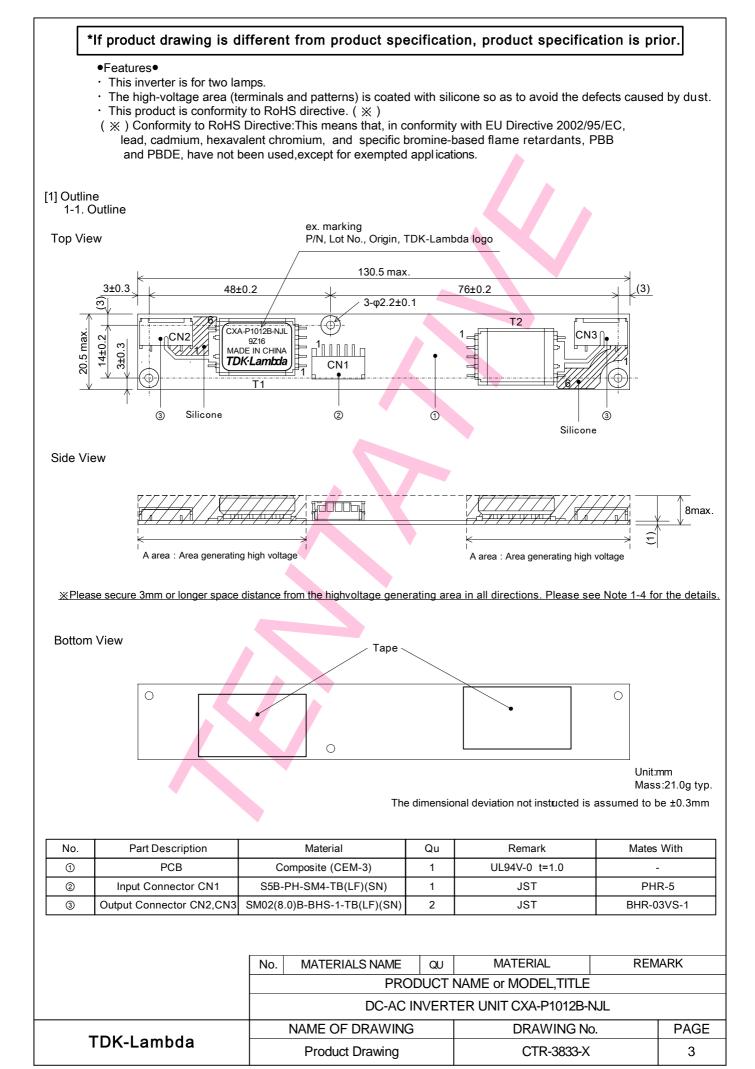
1. Part Name

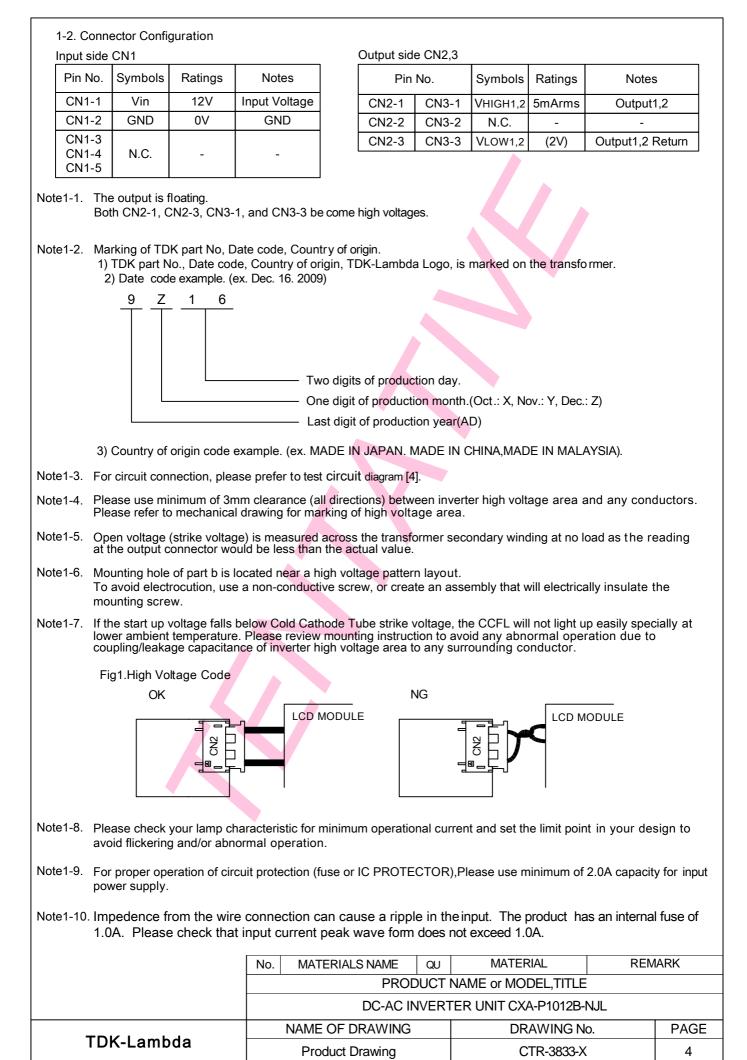
The part name is CXA-P1012B-NJL.

2. Contents

Item	Attched view	Page
1.Appearance,Structure and Dimensions		
Outline	refer to [1]	3
Pin configration	refer to [1]	4
2.Characteristics		
Absolute Maximum Ratings	refer to [2]	5
3.Electrical Characteristics	refer to [3]	5
4.Start up and operating condition	refer to [4]	5
5.Test circuit	refer to [4]	6
6.Reliability Test	refer to [5]	7
7.Packing and Marking	refer to [6]	8
8.Others		
Test Cond Std Warranty Others	refer to [7]	8

	No. MATERIALS NAME QU MATERIAL REMARK			ARK		
	PRODUCT NAME or MODEL, TITLE					
	DC-AC INVERTER UNIT CXA-P1012B-NJL					
	NAME OF DRAWING		DRAWING No).	PAGE	
TDK-Lambda	Product Drawing			CTR-3833-X		2





[2] Absolute maximum ratings

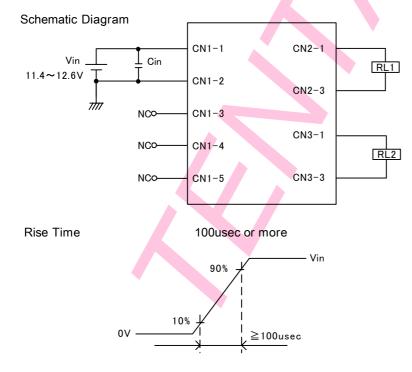
solute maximum ratings				
Items	Symbols	Specification	Unit	Notes
Input Voltage	Vin	0~14.4	V	
Load Resistance	Pout	9	W	
Operating Temp. range	Та	-20 ~ 70	°C	
Storage Temp. range	Ts	-30 ~ 85	0	
Humidity range	RH	95	%RH	A maximum wet ball temperature is 38°C No dew.

[3] Electrical specifications

Items	Symbols		Specification		Unit			Notes	Notes
nems	Symbols	Vin(V)	Ta(°C)	RL1,2(kΩ)	MIN.	TYP.	MAX.	NOLES	Notes
Output Current	lout1/ lout2	12±0.12	18~28	120	4.5	5	5.5	mArms	
Output Current	lout1/ lout2	12±0.6	-20~70	120	4	5	6	mainis	
Input Current	lin	12±0.6	-20~70	120	-	0.62	0.9	А	
Frequency	F	12±0.6	-20~70	120	30	37	44	kHz	
Open Circuit Voltage	Vopen	11.4MIN	-20 ~ 70	œ	1400	1500	-	Vrms	<u></u> %3-1

Note3-1. Please shut and measure SW. For SW, please prefer to test circuit diagram [5].

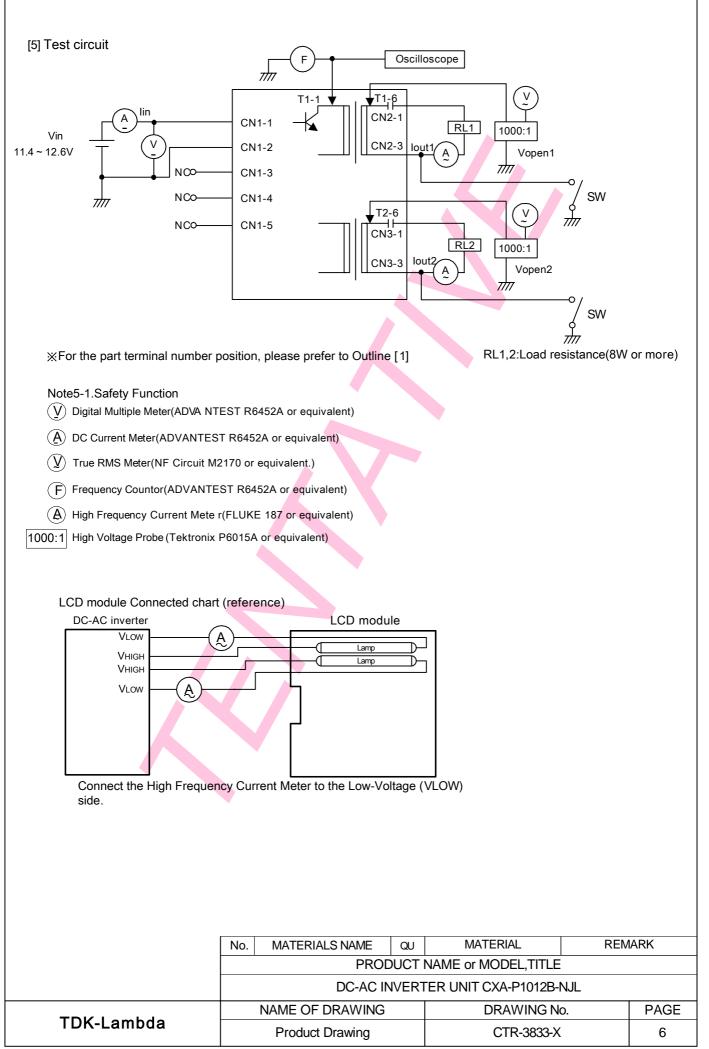
[4] Start up and operating condition



Input Capacitor Cin

As for this product, the capacitor is not inserted in the input. Addition of external capacitors is recommended.

	No. MATERIALS NAME QU MATERIAL REMARK						
	PRODUCT NAME or MODEL, TITLE						
	DC-AC INVERTER UNIT CXA-P1012B-NJL						
	NAME OF DRAWING	DRAWING N	o. PAGE				
TDK-Lambda	Product Drawing	CTR-3833-X	5				



[6] Reliability test

Following test items are assured.

Items	Conditions	Judgement
Low Temp. Non operational	-40°C 500h	
Low Temp.operational	-10°C 500h Load cond.:TYP	
High Temp. Non operational	85°C 500h	
High Temp.operational	60°C 500h Load cond.:TYP	
Heat shock	-20°C⇔75°C 30min.Each 100 Cycles	
Humidity (Non operational)	40℃ 90~95%RH 500h	Electrical and apperrance should be in the spec.
Vibration	10~55Hz Amplitude 0.35mm or 49m/s² Sweep:1分 30min each axis X,Y,Z	
Shock	980m/s ² 6ms Harf-sine pulse 1 time each axis ±X,Y,Z	

	No. MATERIALS NAME	QU MATERIAL	REMARK				
	PRODUCT NAME or MODEL, TITLE						
	DC-AC INVERTER UNIT CXA-P1012B-NJL						
	NAME OF DRAWING	DRAWING N	o. PAGE				
TDK-Lambda	Product Drawing	CTR-3833-X	7				

[7] Packing and Marking					
	aid from water or	damaga Followin	a itams are printed on the	box	
A shipping box is packaged to ave		uamage. Following	g items are printed on the	BOX.	
6-2. Manufacture					
6-3. QTY.					
Several layers of Cardboard Sheet		/			
(to fill in space gap) —					
:380×313×6 D					
5 Layers Tray +					
※For the top layer, place empty tray (without product inside)					
(without product inside)					
Tray (Anti-Static)					
:PACK CXA-P1012B P					
(20 pcs) x 5 layers = 100 pcs / box *Place one layer over the other in alter	rnating position				
*Check that arrow mark () indicator sl			۶		
position.		See also			
Outer Carton 384 x 371 x 98				Bottom Cardl 380 x 313 x 6	
Dimension			///////////////////////////////////////	/	·
(400mm:L) x (333mm:W) x (122mm Gross Weight : Approximately 3.5kg					
Gross Weight : Approximately 5.5kg					
Product Label					
Product Name Manufacturer				\geq	
Quantity			\nearrow		
		\checkmark			
[8] Others			\checkmark		
7-1.Test conditions Unless otherwise specified, the	tomporaturo to b	o (25+15)°C and h	umidity to be (65+20) %	ы	
		e (25±15) C and h		\П.	
7-2. Warranty Warranty shall be for one year	after delivery and	those products c	ausing failure during the	warra ntv nerio	d
and which failures are attribute					iu
7-3.Others					
When any doubt arises about th	nis specification, it	shall be discusse	d and decided upon betw	veen both part	ies.
Г	No. MATERIA	LS NAME QU	MATERIAL	REM	IARK
			NAME or MODEL, TITL		
			TER UNIT CXA-P1012B		
	NAME OF	DRAWING	DRAWING	No.	PAGE
TDK-Lambda	Product	Drawing	CTR-3833-	Х	8