**MESSRS**:

## **PRODUCT DRAWING**

CUSTOMER'S PRODUCT NAME:

TDK PRODUCT NAME:

DC/AC INVERTER UNIT CXA-P10A-P



**TDK** Corporation

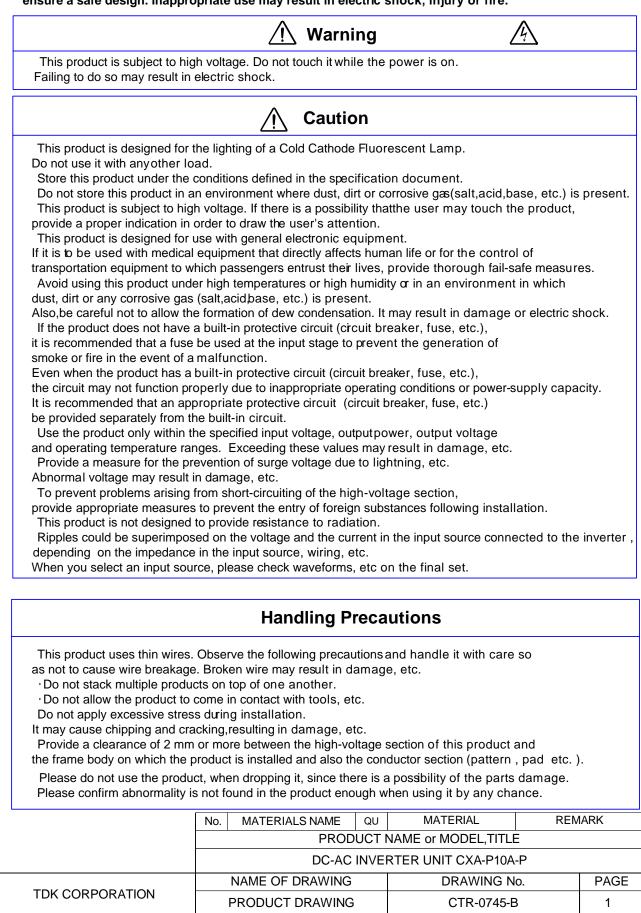
Corporate Headquarters 13-1,Nihonbashi 1-chome,Chuo-ku, Tokyo 103, JAPAN Telephone : 03-3278-5111 2-15-7,Higashi-Ohwada,Ichika wa-shi, Chiba,272-8558 JAPAN Telephone : 047-378-9671 Fax : 047-378-9673

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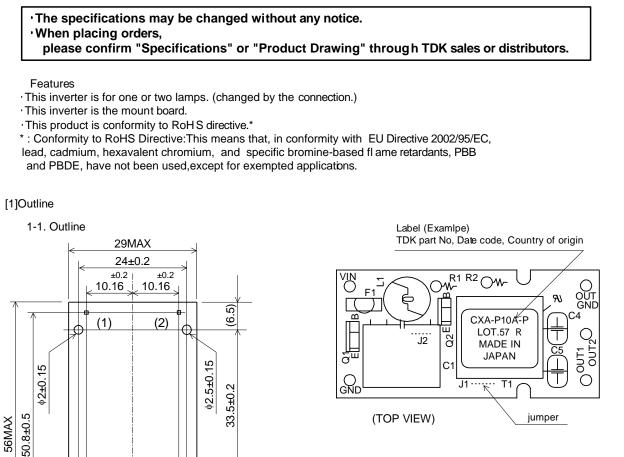
DWG.No. CTR-0745-B

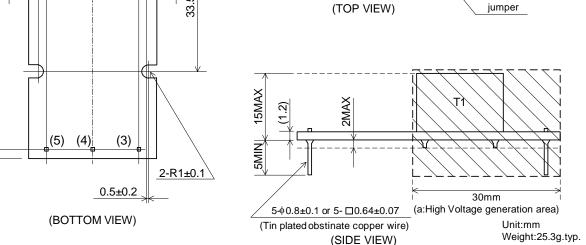
## Precautionary Notes Regarding the Use of This Inverter

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.



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\*Please secure theair clearance of 2mm or more from the high voltage generation area up and down and right and left. Please refer to Note1-4. for details.

Pin No.	Conne	Notes		
FIII NO.	Symbols Rating		Notes	
(1)	Vin	5V		
(2)	GND	0V		
(3)	Vнідн1	400mArms/5mArms		
(4)	Vhigh2	400mArms/5mArms		
(5)	VLOW	0V		

	No. MATERIALS NAME QU MATERIAL R		REM	ARK			
	PRODUCT NAME or MODEL,TITLE						
	DC-AC INVERTER UNIT CXA-P10A-P						
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TDK CORPORATION	PRODUCT DRAWING	CTR-0745-B		2			

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Not	te1-1. Marking of TDK part 1) TDK part No., I 2) Date code exar	Date code, C	ountry of origin	origin. a, is marked	on the side of transformer.				
$\frac{5}{4}$ $\frac{4}{4}$ $\frac{R}{4}$ Product Conforming to RoHS Directive* Identification sign									
	Blank								
	One digit of production month. (Oct. : X, Nov. : Y, Dec. : Z).								
	Last digit of production year.								
	3) Country of origin code example. (ex. JAPAN. CHINA).								
	* : Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, hexavalent chromium, and specific bromi ne-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.								
Note2.	For circuit connection, pre	fer to test cir	cuit diagram [4	].					
Note3.	For operation in floating m	ode, please	remove the jur	mper(J1) on	top side of PCB that pin2 a	and pin 5.			
Note4.	Please use minimum of 2 Please refer to mechanica					and any condu	ictors.		
Note5.	To prevent electrical disch	arge from hi	gh voltage area	a, please us	e non-conductive fastener	in U mounting	g hole.		
Note6.	Open voltage (strike volta output connector would be			transformer	secondary winding at no I	oad as the re	ading at the		
Note7.	Note7. If the start up voltage falls below Cold Cathode Tube strike voltage, the CCFL will not light up easily specially at lower ambient temperature. Please review mounting instruction to avoid any abnormal operation due to coupling/leakage capacitance of inverter high voltage area to any surrounding conductor.								
Note8.	For proper operation of cir power supply.	cuit protectio	on (fuse or ic p	rotector), Ple	ase use minimu m of 5A c	apacity for inp	ut		
I	[2] Absolute maximum ratin	gs							
	ltems	Symbols	Specification	Unit	Note	S			
	Input Voltage	Vin	0~6	VDC					
	Output Power	Pout	9	W					
	Operating Temp. range	Та	-10~60	°C					
	Storage Temp. range	Ts	-20~85	°C					
	Humidity range	RH	95	%RH	A maximum wet ball temperature is 38		s 38°C		
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					RTER UNIT CXA-P10A		<b>B</b> • • =		
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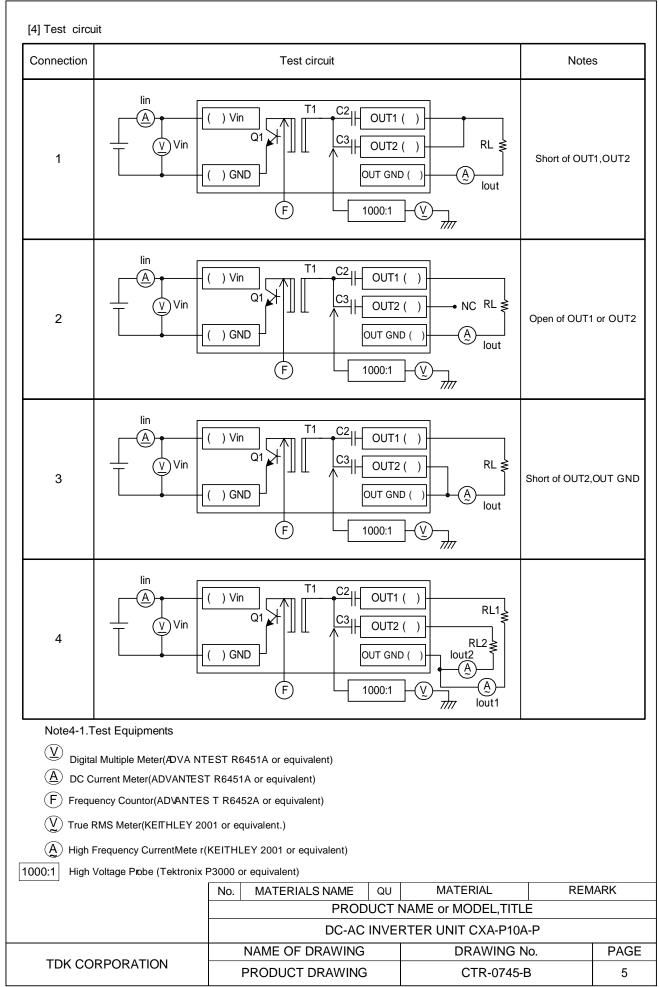
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## [3] Electrical specifications

Items	Symbols	Conditions	Connection	Specification			Unit		
-	,	Vin [V]	Ta [°C]	RL [kΩ]		MIN.	TYP.	MAX.	
Output Current	lout	5±0.05	23±5	60		9	10	11	mArms
						8	10	12	
Input Current	lin	50	50~70	1	-	1.56	2.34	ADC	
Frequency	F	5±0.25	-10~60			32	37	42	kHz
Open Circuit Voltage	Vopen			×		1300	1500	-	Vrms
Outrast Ourrent	laut	5±0.05	23±5	100		5.1	6	6.5	
Output Current	lout					4.5	6	7.1	mArms
Input Current	lin			80~120		-	0.92	1.35	ADC
Frequency	F	5±0.25	-10~60		2	37	42	47	kHz
Open Circuit Voltage	Vopen			×		1300	1500	-	Vrms
		5±0.05	23±5	120		4.3	5	5.5	
Output Current	lout					3.8	5	6.0	mArms
Input Current	lin			100~140	3	-	0.86	1.28	ADC
Frequency	F	5±0.25	-10~60			32	37	42	kHz
Open Circuit Voltage	Vopen			×		1300	1500	-	Vrms
Output Current		5±0.05	23±5	RL1=RL2=120	)	4.5/4.5	5/5	5.5/5.5	
Output Current	lout1,lout2				1	4/4	5/5	6/6	mArms
Input Current	lin			100~140	4	-	1.47	2.21	ADC
Frequency	F	5±0.25	-10~60			32	37	42	kHz
Open Circuit Voltage	Vopen			x		1300	1500	-	Vrms
Frequency	F	5±0.25	-10~60		4	32	37		
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## [5] Reliability test

Following test items are assured.

Items	Conditions	Judgement		
Low Temp.Non operational	-40°C 96h			
Low Temp.operational	-10°C 96h Load cond.:TYP			
High Temp.Non operational	85°C 96h			
High Temp.operational	60°C 96h Load cond.:TYP			
Heat shock	The following 5 cycles,Load cond.:TYP 60°C 20°C -10°C 2h/div	Electrical and apperrance should be in the		
Humidity (Non operational)	40°C 90~95%RH 96h	spec.		
Vibration	10~55Hz Amplitude 0.35mm or 5G Sweep:1min 30min each axis X,Y,Z			
Shock	60G 6ms Harf-sine pulse 1 time each axis ±X,Y,Z			
Terminal strength	Tensile:1kgf 10sec			
Heatresistance of solderling	260°C±5°C 10sec 350°C±10°C 3sec			
State of soldering	230°C±5°C 5sec	Electrical and apperrance should be in the spec. Thing that lead wire which solders and is extinguished is covered with new solder.		
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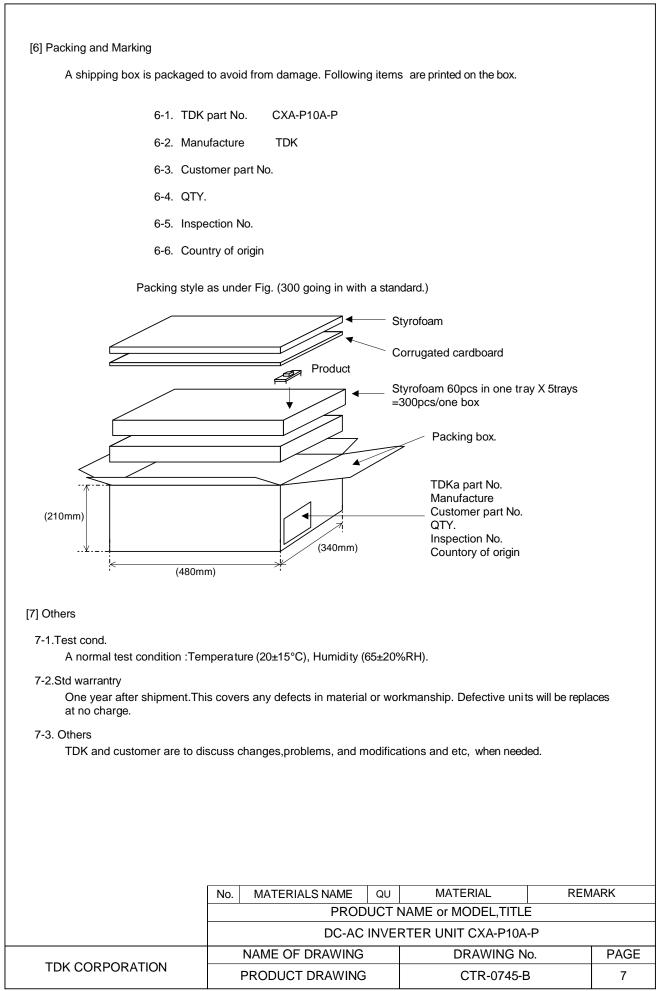
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6

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