

1.本站收集的数据手册和产品资料都来自互联网,版权归原作者所有。如读者和版权方有任 何异议请及时告之,我们将妥善解决。

本站提供的中文数据手册是英文数据手册的中文翻译,其目的是协助用户阅读,该译文无法自动跟随原稿更新,同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。

3.本站提供的产品资料,来自厂商的技术支持或者使用者的心得体会等,其内容可能存在描 叙上的差异,建议读者做出适当判断。

4.如需与我们联系,请发邮件到marketing@iczoom.com,主题请标有"数据手册"字样。

Read Statement

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.

2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.

3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.

4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets".



MESSRS :

Product Drawing

CUSTOMER'S PRODUCT NAME:

TDK PRODUCT NAME: DC/AC INVERTER UNIT CXA- P1212E-WJL

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 20, 2010	April 20, 2010	April 20, 2010
N.Suzuki	Y.Kimura	H.Masuoka

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.

	ign. mappropriate use may result	i in electric shock, inju	i y or tire.	
	🕂 Warning		<u>A</u>	
•This product is subject to high v Failing to do so may result in el	voltage. Do not touch it while the po ectric shock.	ower is on.		
	▲ Caution			
 This product is designed for light Do not use it with any other load. Store this product under the composition of the product is subject to high with provide a proper warning indicate. This product is designed for use of the product is designed for use of the product is be used with medical expressions. Consult us before using if this product under the dust, dirt or any corrosive gas (see Also, be careful not to allow the form the product does not have a boom to the provide separately from the server when the product has a boom the circuit may not function proposed that an appropriate measure for the provee Abnormal voltage may result in the inverter. Ripples could be superimposed depending on the impedance in When you select an input source. 	ting Cold Cathode Fluorescent Land. additions defined in the specification environment where dust, dirt or corr oltage. If there is a possibility that the tion in order to draw the user's attent with general electronic equipment quipment that directly affects huma ch passengers entrust their lives, p roduct is to be installed in a habitua- nigh temperatures or high humidity salt,acid,base, etc.) is present. formation of dew condensation. It m uilt-in protective circuit (circuit brea- te used at the input stage to prevent halfunction. uilt-in protective circuit (circuit brea- berly due to inappropriate operating opriate protective circuit (circuit brea- built-in circuit. specified input voltage, output power es. Exceeding these values may re- tention of surge voltage due to light damage, etc. ring as a result of a short circuit in the entry of foreign substances into provide resistance to radiation. om vibration and shock, be sure to on the voltage and the current in the the input source, wiring, etc. e, please check waveforms, etc on es, because to defend the converte	nps. document. osive gas(salt,acid,base he user may touch the p ntion. n life or for the control of rovide thorough fail-safe al vibration environment or in an environment in w hay result in damage or of ker, fuse, etc.), t the generation of ker, fuse, etc.), conditions or power-sup eaker, fuse, etc.) er, output voltage esult in damage, etc. ing, etc. the high voltage section, o the inverter after it is in use all the mounting hol ne input source connected the final set. r from vibration and imp	, etc.) is pro- roduct, f e measures (vehicle, et which electric sho oply capacit oply capacit by the sure to istalled. les when in ed to the inv act.	essent. c.). hck. ty. take istalling verter ,
	Handling Precautio	ns		
 This product uses thin wires. O as not to cause wire breakage. Do not stack multiple prodution to point allow the product to Do not apply excessive stress of the may cause chipping and crace. Provide clearance between the is installed and also the conduct of Do not use the product after it he damaged. 	bserve the following precautions an Broken wire may result in damage acts on top of one another. come in contact with tools, etc. during installation. cking,resulting in damage, etc. high-voltage section of this productor ctor section as on page 2, [1] "Outl has been dropped because there is	nd handle it with care so , etc. et and the frame body on ine" . 5 the possibility that com	which the ponents ha	product ve been
	No. MATERIALS NAME QU	MATERIAL	REM	IARK
	PRODUCT	NAME or MODEL, TITLE		
	DC-AC INVERT	ER UNIT CXA-P1212E-	WJL	
	NAME OF DRAWING	DRAWING No).	PAGE
TDK-Lambda	Product Drawing	CTR-3859-X		1

1. Part Name

The part name is CXA-P1212E-WJL.

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.Test circuit	refer to [4]	6
5.Reliability Test	refer to [5]	7
6.Packing and Marking	refer to [6]	8
7.Others		
Test Cond Std Warranty Others	refer to [7]	8

	No.	MATERIALS NAME	QU	MATERIAL	REM	IARK
	PRODUCT NAME or MODEL, TITLE					
	DC-AC INVERTER UNIT CXA-P1212E-WJL					
	NAME OF DRAWING			DRAWING N	0.	PAGE
IDK-Lambda	Product Drawing			CTR-3859-X	(2



1-2. Connector Configuration

Input side	CN1			Output sid	e CN2			
Pin No.	Symbols	Ratings	Notes	Pin No.	Symbols	Ratings	Notes	
CN1-1	Vin	10 9 12 2)/		CN2-1	VHIGH1	600Vrms	Output1	
CN1-2	VIII	10.0-13.20	input voltage	CN2-2	NC	-	-	
CN1-3	GND	0)/	CND	CNI2 2		(2)()	Output1 Poturn	
CN1-4	GND	00	GND	0112-3	VLOWI	(2)		
CN1-5	Vrmt	nt 0V/2.5V-Vin	0-0.4V:OFF 2.5-Vin V:ON	Output side CN3				
			Remote terminal	Pin No.	Symbols	Ratings	Notes	
CN1-6			The warning output	CN3-1	VHIGH2	600Vrms	Output2	
(Output)	Vst	0V/5V	5V in abnormal	CN3-2	NC	-	-	
CN1-7	Vbr/Rbr	0-2.5V/0-50kΩ	Brightness terminal	CN3-3	VLOW2	(2V)	Output2 Return	

Note1-1. Marking of TDK part No, Date code, Country of origin.





3) Country of origin code example. (ex. MADE IN JAPAN. MADE IN CHINA. MADEIN MALAYSIA).

- Note1-2. For circuit connection, please prefer to test circuit diagram [4].
- Note1-3. Please use minimum of 3mm clearance (all directions) between inverter high voltage area and any conductors. Please refer to mechanical drawing for marking of high voltage area.
- Note1-4. Open voltage (strike voltage) is measured across the transformer secondary winding at no load as the reading at the output connector would be less than the actual value.
- Note1-5. 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.



- Note1-6. Please check your lamp characteristic for minimum operational current and set the limit point in your design to avoid flickering and/or abnormal operation.
- Note1-7. For proper operation of circuit protection (fuse or IC PROTECTOR), Please use minimum of 4.0A capacity for input power supply.
- Note1-8. Impedence from the wire connection can cause a ripple in the input. The product has an internal fuse of 2.0A. Please check that input current peak wave form does not exceed 2.0A.

1	[2]	Absoluto	maximum	ratinge
	[4]	Apsolute	maximum	rainys

Item	Symbol	Specification	Unit	Notes
	Vin	0~15		
Input Voltage	Vrmt	0~Vin	V	
	Vbr	0~16		
Load Resistance	RL1//CL1 RL2//CL2	100//5	kΩ//pF	
Operating Temp. range	Та	-30~80	°C	
Storage Temp. range	Ts	-30~85	ů	
Humidity range	RH	95	%RH	A maximum wet ball temperature is 38°C No dew

[3] Electrical specifications

			Conditions					Specifications					
ltem	Symbol	Vin(V) V	/rmt(V)	Rbr(kΩ)/ Vbr(V)	Та	(°C)	RL1(kΩ)//CL1(pF) RL2(kΩ)//CL2(pF)	MIN.	TYP.	MAX.	Unit	
Output Current	lout1/	12±1.	2 5	5±0.25	0/0	-30	~80	90//5±0.25 90//5±0.25	5.3	6.0	6.7		
(Brightness max.)	lout2	12±0.	6 5	5±0.25	0 / 0	23	8±5	90//5±0.25 90//5±0.25	5.5	6.0	6.5		
		12±1.:	2 5	5±0.25	50 / 2.5	-30	~80	90//5±0.25 90//5±0.25	1.0	2.0	3.0	mArms	
Output Current (Brightness min.)	lout1/ lout2	12±1.	2 5	5±0.25	50 / 2.5	-10	~70	90//5±0.25 90//5±0.25	1.1	2.0	2.9		
		12±0.	6 5	5±0.25	50 / 2.5	23	8±5	90//5±0.25 90//5±0.25	1.2	2.0	2.8		
Input Current1	lin1	12±0.	6 5	5±0.25	0/0	-30	~80	90//5±0.25 90//5±0.25	-	0.8	1.0	А	
Input Current2	lin2	12±0.	6 C	0±0.25	0 / 0	-30	~80	90//5±0.25 90//5±0.25	-	-	1	mA	
Frequency	F1	12±0.	6 5	5±0.25	0 / 0	-30	~80	90//5±0.25 90//5±0.25	35	40	45	kHz	
Trequency	F2	12±0.	6 5	5±0.25	50 / 2.5	-30	~80	90//5±0.25 90//5±0.25	210	250	290	kHz	
Open Circuit Voltage	Vopen	12±1.	2 5	5±0.25	0 / 0	-30	~80	8 8	1500	1700	-	Vrms	
	Varning Output Vst		12±1.:	2 5	5±0.25	0/0	-30	~80	90//5±0.25 ∞	4.5	5.0	5.5	
Warning Output		12±1.	2 5	5±0.25	0/0	-30	~80	∞ 90//5±0.25	4.5	5.0	5.5	V	
		12±1.	2 5	5±0.25	0/0	-30	~80	90//5±0.25 90//5±0.25	-	0	0.5		
			Na	NAAT		_	011	MATEDIAL			DEM		
	INO.	IVIAI					- 	 E					
DC-AC INVERTER UNIT CXA-P1212E-WJL													
			NAME OF DRAWING			DRAWING No.				PAGE			
TDK-Lambda				Pro	duct Drawing	l		CTR-	3859->	Κ		5	



	No.	MATERIALS NAME	QU	MATERIAL	REM	IARK		
	PRODUCT NAME or MODEL, TITLE							
DC-AC INVERTER UNIT CXA-P1212E-WJL								
		NAME OF DRAWING		DRAWING N	0.	PAGE		
IDK-Lambda	DC-AC INVERTER UNIT CXA-P1212E-WJL NAME OF DRAWING DRAWING No. Product Drawing CTR-3859-X	6						

Vrmt terminal circuit (Reference)



[5] Reliability test

Following test items are assured.

ltem	Condition	Judgement
Low Temp.Non operational	-40°C 500h	
Low Temp.operational	-30°C 500h Load cond.:TYP	
High Temp.Non operational	85°C 500h	
High Temp.operational	80°C 500h Load cond.:TYP	
Heat shock	-30°C↔85°C 30min.Each 100 Cycles	Electrical and apperrance should be in the
Humidity (Non operational)	60°C 90~95%RH 500h	spec.
Vibration	10~57Hz Amplitude0.75mm 58~500Hz 9.8m/s ² Sweep:11min 60min each axis X,Y,Z	
Shock	 980m/s² 6ms Harf-sine pulse 1 time each axis ±X,Y,Z 	

	No.				REM	ARK
					-	
		DC-AC IN	VERT	ER UNIT CXA-P1212E-	VVJL	
TDK Jarah da		NAME OF DRAWING		DRAWING No	Э.	PAGE
I DK-Lambda	Product Drawing			CTR-3859-X		7
<the any="" be="" changed="" may="" notice.="" specifications="" without=""> TSB-08-01-05(00) form-6(A4)</the>						

[6] Packing and Marking			
A shipping box is packaged to ave	oid from damage. Following items are	printed on the box.	
6-1. TDK pa	rt No. CXA-P1212E-WJL		
6-2. Manufac	cture		
6-3. QTY.			
Packing style as	under Fig. (100 going in with a standa	rd.) rofoam rrugated cardboard rofoam 20pcs in one tray X 5tray)0pcs/one box Packing box. TDKa part No. Manufacture QTY.	ΊS
 (480mm) [7] Others 7-1.Test conditions Unless otherwise specified, the 	the temperature to be (25 ± 15) and h	numidity to be (65 \pm 20) %RH.	
 7-2. Warranty Warranty shall be for one yea and which failures are attribu 7-3.Oters When any doubt arises about Shipment inspection result sh 	ar after delivery, and those products ca ted to the manufacturer's responsibility this specification, it shall be discussed eet are subject to change without notic	ausing failure during the warranty y shall be replaced at no charge. d and decided upon between bot ce.	/ period h parties.
	No. MATERIALS NAME QU	MATERIAL	REMARK
	PRODUCT	NAME or MODEL, TITLE	
	DC-AC INVERT	ER UNIT CXA-P1212E-WJL	
TDK-I ambda	NAME OF DRAWING	DRAWING No.	PA
	Product Drawing	CTR-3859-X	

<The specifications may be changed without any notice.> TSB-08-01-05(00) form-6(A4)

PAGE 8