CXA-0492

Features

- ●1 output
- •Usable in a wide range of temperatures
- Applicable panel size*: 3 to 15 inches
- With brightness control function (Pulse Width Modulation Dimming).
- With shut down function.
- With a sensing function for running out of lamp (alarm output).
- ●In the high-voltage generator (a terminal and a pattern), an anti-dust measure by silicone application is taken.

(Notice) Applicable panel size becomes a standard.

Applications







CXA-0492 Specifications (Please refer to each specification before use)

Electrical Characteristics

ltono	Unit	Symbol	S	pecification	on			Cond	dition				
Item	Ullit	Syllibol	min	typ	max	Vin(V)	Vrmt(V)	Vbr(V)	$Rbr(k\Omega)$	Ta(°C)	RL(kΩ)	CL(PF)(*3)	Remarks
Output Current	mArms	lout (Maximum dimmer)	5.5	6.0	6.5	12±1.2	5	0	-	-30 to 80	145	15	Voltage dimmer (*1)
			5.5	6.0	6.5	12±1.2	5	-	0	-30 to 80	145	15	Volume dimmer (*1)
		lout (Minimum dimmer)	1.6	2.6	3.6	12±1.2	5	2.5	-	-30 to 80	145	15	Voltage dimmer (*1)
			1.6	2.6	3.6	12±1.2	5	-	50	-30 to 80	145	15	Volume dimmer (*1)
Innut Current	mA	lin1	-	590	1250	12±1.2	5	0	-	-30 to 80	145	15	Remote ON
Input Current	mA	lin2	-	-	1	12±1.2	0	0	-	-30 to 80	145	15	Remote OFF
Oscillatory	kHz	Freq1	52	57	62	12±1.2	5	0	-	-30 to 80	145	15	
Frequency	Hz	Freq2 (Duty frequency)	230	255	280	12±1.2	5	2.5	-	-30 to 80	145	15	
Open Circuit Voltage	Vrms	Vopen	2050	2200	-	12±1.2	5	0	-	-30 to 80	∞	∞	Open load
Alarm Signal	V	V-1	4.5	5.1	5.5	12±1.2	5	0	-	-30 to 80	∞	∞	In case of lamp anomaly (*2)
		al V	Vst	-	0	0.5	12±1.2	5	0	-	-30 to 80	145	15

^(*1) Please refer to the connection diagram for details of a dimming method.

Other Specifications

Dimming Function		Yes
Operating Temperature	°C	-30 to +80
Storage Temperature	°C	-30 to +85
Operating Humidity Ratio	RH%	95max.
Safety Standard		_
Weight	g	18typ.
Dimensions (WxDxH)	mm	110x22x8.5 (*4)
Fused Input		Yes
Remote ON / OFF		Yes
Alarm Signal Function		Yes
Shutdown Function		Yes
Silicone Coating on High Voltage Area		Yes

 $(^{\star}4)$ These dimensions are indicated the maximum only H. Others are typical values.

Conformity to RoHs Directive

This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

^(*2) Please refer to the connection diagram for details of alarm output.

^(*3) As equivalent circuit of panel load, connect resistance load (RL) and distributed capacity (CL), and have provided by an electrical characteristic.

Outline Drawing

Label display example Product name, Lot No., country of origin, TDK-Lambda logo 2 $2-\phi 3.5\pm 0.2$ 3 1 22 ± 0.5 14±0.3 CXA-0492 CAUTION HIGH VOLTAGE 6107 R MADE IN JAPAN TDK·Lambda CN2 Н СР3 О 12 ± 0.5 84 ± 0.3 4 ± 0.3 110±0.5 8.5MAX. Silicon

Unit: mm

*From high-voltage generator, please secure space distance more than 3mm in top and bottom right and left.

Connector

No.	Component name	Type name	Qty	Remarks	Recommended suitable connector
1	Printed circuit board PCB	Composite (CEM-3)	1	UL94V-0 t=1.0	-
2	Input connector CN1	53261-0871	1	Molex	51021-0800
3	Output connector CN2	SM02(8.0)B-BHS-1-TB(LF)(SN)	1	J.S.T Mfg., Co., Ltd	BHR-03VS-1

Terminal Number & Function

Input side CN1

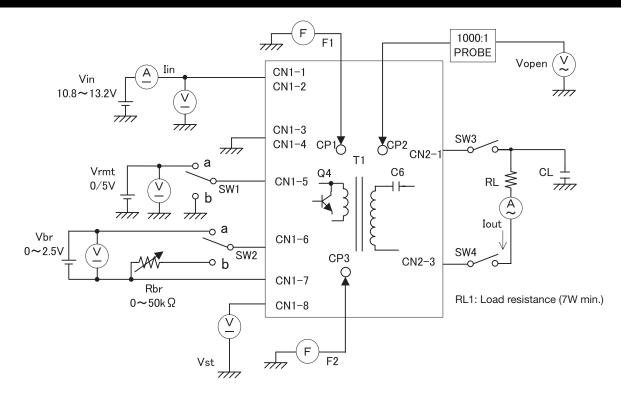
Terminal No.	Symbol	Rating	Remarks		
CN1-1	Vin	12±1.2V	Dower course input		
CN1-2	VIII	1211.20	Power source input		
CN1-3	GND	OV	Ground		
CN1-4	GIND	UV			
CN1-5	Vrmt	0V/2.5V to Vin	0 to 0.4V : OFF		
			2.5 to Vin : ON		
CN1-6	Vbr1/Rbr1	0 to 2.5V/0 to $50k\Omega$	Dimmer terminal 1		
CN1-7	Vbr2/Rbr2	GND/0 to $50k\Omega$	Dimmer terminal 2		
CN1-8	Vst(output)	0V/5V	Alarm output		
	V St (Sutput)	0 7, 3 7	Lamp open : 5V		

Output side CN2

Terminal No.	Symbol	Rating	Remarks
CN2-1	VHIGH	870Vrms	Output
CN2-2	_	_	N.C.
CN2-3	V _{LOW}	(2V)	Output return

High voltage generating area (51mm from board end panel)*

Connections



Operate as follows by switching a SW1.

SW1	Unit operates	
а	Operates	
b	Does not operate	
Open	Does not operate	

Operate as follows by switching a SW2.

SW2	Unit operates		
а	Voltage dimmer Vbr = 0 to 2.5V (0V: Maximum brightness)		
b	Volume dimmer VR = 0 to 50kΩ (0 Ω : Maximum brightness)		

Protection Circuit Operation

Load condition	Alarm output (CN1-8)*1	Shutdown function*2		
When normal	0.5V max.	Does not shut down		
When 1 load (lamp) are NG	4.75 to 5.25V	Shuts down		

- *1. Warning output is a situation where 5V is output when one or more switches (SW3 and SW4) of measuring circuit [4] is open.
- *2. When all lamps were opened, this inverter has included protective function to stop operation in about 3 seconds.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TDK: CXA-0492