Dimming/Connector Type

CXA-0454

Features

- ●2-output
- ●UL60950 approved
- ■Applicable panel size*: 10 to 12 inches
- With brightness control function (Pulse Wide Modulation mode).
- 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-0454 Specifications (Please refer to each specification before use)

Electrical Characteristics

Itam	Unit	Symbol	Specification		Condition								
Item Unit		Symbol	min	typ	max	Vin(V)	Vrmt(V)	Vbr(V)	Rbr(kΩ)	Ta(°C)	RL(kΩ)	CL(pF)(*3)	Remark
		lout	5.3	6.0	6.7	12±1.2	5	0	-	-30 to +80	70	5	Voltage dimmer (*1)
Output Current		(Maximum dimmer)	5.3	6.0	6.7	12±1.2	5	-	0	-30 to +80	70	5	Volume dimmer (*1)
Output Current		lout	2.0	3.0	4.0	12±1.2	5	2.5	-	-30 to +80	70	5	Voltage dimmer (*1)
		(Minimum dimmer)	2.0	3.0	4.0	12±1.2	5	-	50	-30 to +80	70	5	Volume dimmer (*1)
Input Current	Α	lin1	1	0.7	1.25	12±0.6	5)	-30 to +80	70	5	Remote ON
input Current	mA	lin2		-	1	12±0.6		0		-30 to +80	70	5	Remote OFF
	kHz	Freq1	55	60	65	12±0.6	5)	-30 to +80	70	5	
Frequency	Hz	Freq2 (Duty frequency)	230	250	270	12±0.6	5	2.5	50	-30 to +80	70	5	
Open Circuit Voltage	Vrms	Vopen	1500	1700	1900	10.8min.	5)	-30 to +80	c	×	Open load
Alarm Signal	V	1/-1	4.5	5.0	5.5	12±1.2	5)	-30 to +80	c	×	In case of lamp anomaly (*2)
		V	Vst	-	0	0.5	12±1.2	5)	-30 to +80	70	5

^(*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	℃	-30 to +85
Operating Humidity Ratio	RH%	95Max
Safety Standard		UL60950
Weight	g	21.2
Dimensions(WxDxH)	mm	153x21x8.5 (*4)
Fused Input		Yes
Remote ON / OFF		Yes
Alarm Signal Function		Yes
Shutdown Function		Yes
Silicone Coating on High Voltage Area		Yes

^(*4) These dimensions are indicated the maximum only H. Others are typical

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.

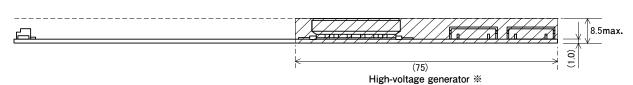
^(*3) As equivalent circuit of panel load, connect resistance load (RL) and distributed capacity (CL), and have provided by an electrical characteristic.

Outline Drawing

Example of label marking
Product name, Lot No., Country of origin, TDK-Lambda logotype, UL standard marking

2
2 2-φ3.5±0.2

CXA-0454
H 6Y16 R
MADE IN CHINA
TDK-Lambda MA



Prohibition area of components and pattern (except GND line)

(The entire surface within a range of 75mm away from the end of the basein)

unit:mm

Connector

Connector	Part number	Model/Material	Quantity	Remarks	Recommended applicable connector
1	Printed circuit board PCB	Composite (CEM-3)	1	UL94V-0 t=1.0	_
2	Input connector CN1	53261-0771	1	Molex Inc.	51021-0700
3	Output connector CN2, CN3	SM02 (8.0) B-BHS-1-TB (LF) (SN)	2	JST Mfg. Co., Ltd.	BHR-03VS-1

Terminal Numbers And Functions

Input side CN1

Terminal number	Symbol	Rated voltagex	Rema	arks
CN1-1	Vin	12±1.2V	Power input	
CN1-2	VIII	12±1.24		
CN1-3	GND	OV	Ground	
CN1-4	GIND	UV		
CN1-5	Vrmt	0V/2.5V to Vin	Remote terminal	0 to 0.4V : OFF 2.5 to Vin : ON
CN1-6	Vst (Output)	0V/5V	Alarm output Lu	ump open : 5V
CN1-7	Vbr/Rbr	0 to 2.5V/0 to 50kΩ	Dimmer t	terminal

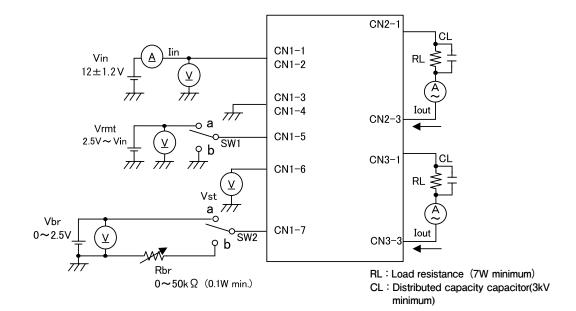
Output side CN2

Terminal number	Symbol	Rated voltage	Remarks
CN2-1	VHIGH1	600Vrms	Output 1
CN2-2	N.C.	_	N.C.
CN2-3	VLOW1	(2V)	Output 1 return

Output side CN3

Terminal number	Symbol	Rated voltage	Remarks
CN3-1	VHIGH2	600Vrms	Output 2
CN3-2	N.C.	_	N.C.
CN3-3	VLOW2	(2V)	Output 2 return

Connections



Operate as follows by switching SW1.

SW1	Unit operation
а	Operation
b	Does not operate
Open	Does not operate

Operate as follows by switching SW2.

SW2	Unit operation
а	Voltage dimmer Vbr=0 to 2.5V
b	Volume dimmer VR=0 to 50kΩ

W Vbr=0V: Maximum brightness
 Rbr=0Ω: Maximum brightness

Protection circuit operation

Load condition	Alarm output (CN1-6)*1	Shut-down function*2
Normal condition	0.5V max.	Does not shut down
When 1 load (lamp) is run-out	5±0.5V	Does not shut down
When 2 loads (lamps) are run-out	5±0.5V	Shut down

^{%1:} When more than one of RL was opened, output alarm signal of 5V

^{※2:} When all lamps were opened, this inverter has included protective function to stop operation in about 3 seconds.