**Dimming/Connector Type** 

1

# CXA-0463

# Features

#### 2-output

- Applicable panel size\*: 5 to 8 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-0463 Specifications (Please refer to each specification before use)

#### **Electrical Characteristics**

Item	Unit Symbol	Cumbal	Specification		Condition							
		Symbol	min	typ	max	Vin(V)	Vrmt(V)	Vbr(V)	Rbr(kΩ)	Ta(℃)	RL(kΩ)	Remark
Output Current	mArms lout	lout	5.5	6.0	6.5	12±1.2	5	0	-	-30 to +80	70	Voltage dimmer (*1)
		(Maximum dimmer)	5.5	6.0	6.5	12±1.2	5	-	0	-30 to +80	70	Volume dimmer (*1)
		lout	1.8	2.5	4.0	12±1.2	5	2.5	-	-30 to +80	70	Voltage dimmer (*1)
		(Minimum dimmer)	1.8	2.5	4.0	12±1.2	5	-	50	-30 to +80	70	Volume dimmer (*1)
	A	lin1	-	0.62	1.00	12±1.2	5		0	-30 to +80	70	Remote ON
Input Current	mA	lin2	-	0	1	12±1.2		0		-30 to +80	70	Remote OFF
Frequency	kHz	Freq1	45	50	55	12±1.2	5		0	-30 to +80	70	
	Hz	Freq2(Duty frequency)	230	255	280	12±1.2	5	2.5	50	-30 to +80	70	
Open Circuit Voltage	Vrms	Vopen	1300	1500	1700	10.8min.	5	-	0	-30 to +80	∞	Open load
Alarm Signal	V	Vst	4.5	5.1	5.5	12±1.2	5	(	0	-30 to +80	∞	In case of lamp anomaly (*2)
		v v	vsi	-	0	0.5	12±1.2	5		0	-30 to +80	70

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

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

#### **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	22
Dimensions(WxDxH)	mm	110x22x8.5 (*3)
Fused Input		Yes
Remote ON / OFF		Yes
Alarm Signal Function		Yes
Shutdown Function		Yes
Silicone Coating on High Voltage Area		Yes

(\*3) 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.

# **Outline Drawing**



Kara (60) High-voltage generator ※

(The entire surface within a range of 60mm away from the end of the basein)

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



Example of label marking

Product name, Lot No., Country of origin, TDK-Lambda logotype

unit:mm

#### Connector

Connector number	Part number	Model/Material	Quantity	Remarks	Recommended applicable connector
1	Input connector	53261-0871	1	Molex Inc.	51021-0800
2	Output connector	SM03 (7-D1) B-BHS-1-TB (LF) (SN)	1	JST Mfg. Co., Ltd.	BHR-04VS-1
3	Printed circuit board	Composite (CEM-3)	1	UL94V-0 t=1.0mm	-

#### **Terminal Numbers And Functions**

Input side CN1

Terminal	S	ymbol	Remarks	
number	Symbol	Rated voltagex		
CN1-1	Vin	12±1.2V	Power input	
CN1-2		12±1.2V		
CN1-3	GND	0V	Ground	
CN1-4	GIND	00	Ground	
CN1-5	Vrmt	0V/2.5V to Vin+1V	Remote terminal 0 to 0.4V : OFF 2.5 to Vin V : ON	
CN1-6	Vbr1/Rbr1	0 to 2.5V/0 to 50kΩ	Dimmer terminal 1	
CN1-7	Vbr2/Rbr2	GND/0 to 50k $\Omega$	Dimmer terminal 2	
CN1-8	Vst(Output)	0V/5V	Alarm output Lump open : 5V	

#### Output side CN2

Terminal	S	ymbol	Remarks	
number	Symbol	Rated voltage	Remarks	
CN2-1	VHIGH1	420Vrms	Output 1	
CN2-2	VHIGH2	420Vrms	Output 2	
CN2-3	N.C.	_	N.C.	
CN2-4	VLOW	(2V)	Output 1, 2 return	

### CXA-0463

### TDK·Lambda <sup>3</sup>

# Connections



#### Operate as follows by switching SW1.

SW1	Unit operation
а	Operation
b	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

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

#### Operate by a switch of SW3 to 5 as follows.

SW3 to 5	Alarm output
Open	Operation (5V output)
Close	Does not operate (0V output)