

CXA-0462

Dimming/Connector Type

■ Features

- 2 outputs
- Usable in a wide range of temperatures
- Applicable panel size*: 5 to 6 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



DC-AC Inverter

CXA-0502 Specifications (Please refer to each specification before use)

Electrical Characteristics

Item	Unit	Symbol	Specification			Condition						Remarks
			min	typ	max	Vin(V)	Vrmt(V)	Vbr(V)	Rbr(kΩ)	Ta(°C)	RL1,2(kΩ)	
Output Current	mA	Iout 1, 2 (Maximum dimmer)	4.5	5	5.5	12±1.2	5	0	-	-30 to +80	65	Voltage dimmer (*1)
			4.5	5	5.5	12±1.2	5	-	0	-30 to +80	65	Volume dimmer (*1)
		Iout 1, 2 (Minimum dimmer)	1.9	2.6	3.3	12±1.2	5	2.5	-	-30 to +80	65	Voltage dimmer (*1)
			1.9	2.6	3.3	12±1.2	5	-	50	-30 to +80	65	Volume dimmer (*1)
Input Current	mA	Iin1	-	440	1000	12±1.2	5	0	-	-30 to +80	65	Remote ON
	mA	Iin2	-	-	1	12±1.2	0	0	-	-30 to +80	65	Remote OFF
Oscillatory Frequency	kHz	Freq1	45	50	55	12±1.2	5	0	-	-30 to +80	65	
	Hz	Freq2 (Duty frequency)	230	255	280	12±1.2	5	2.5	-	-30 to +80	65	
Open Circuit Voltage	Vrms	Vopen	1400	1600	1800	12±1.2	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	∞/65	In case of lamp anomaly (*2)
			4.5	5.1	5.5	12±1.2	5	0	-	-30 to +80	65/∞	In case of lamp anomaly (*2)
			-	0	0.5	12±1.2	5	0	-	-30 to +80	65	On a normal operation (*2)

(*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	22typ.
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.

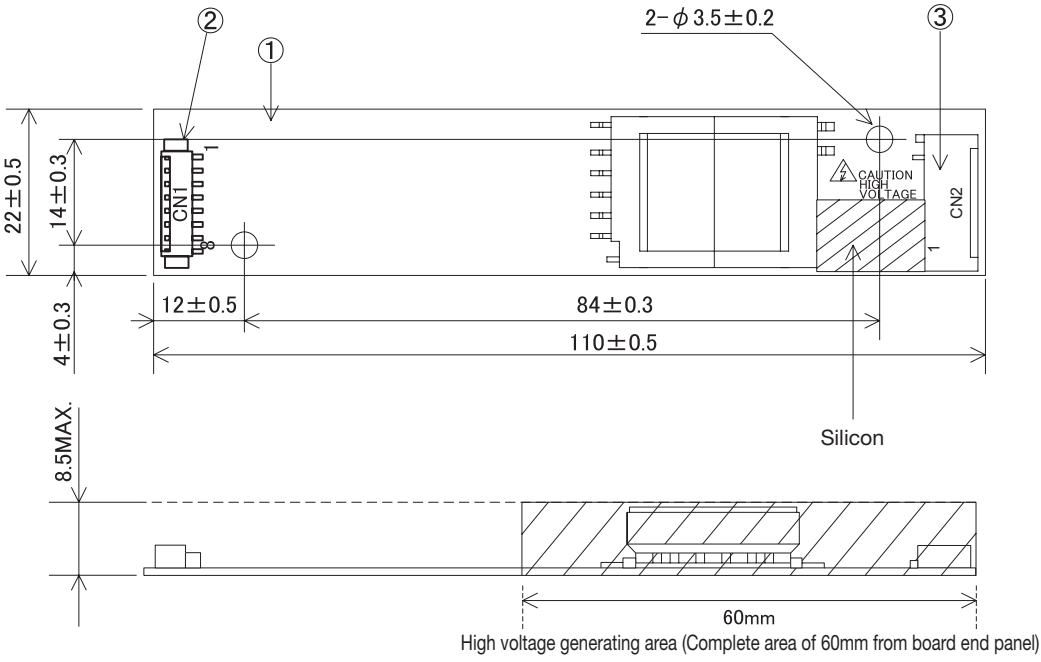
■ Conformity to RoHs Directive

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.

Connector type/2 outputs

Outline Drawing

DC-AC Inverter



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	SM03(7-D1)B-BHS-1-TB(LF)(SN)	1	J.S.T Mfg., Co., Ltd	BHR-04VS-1

Terminal Number & Function

Input side CN1

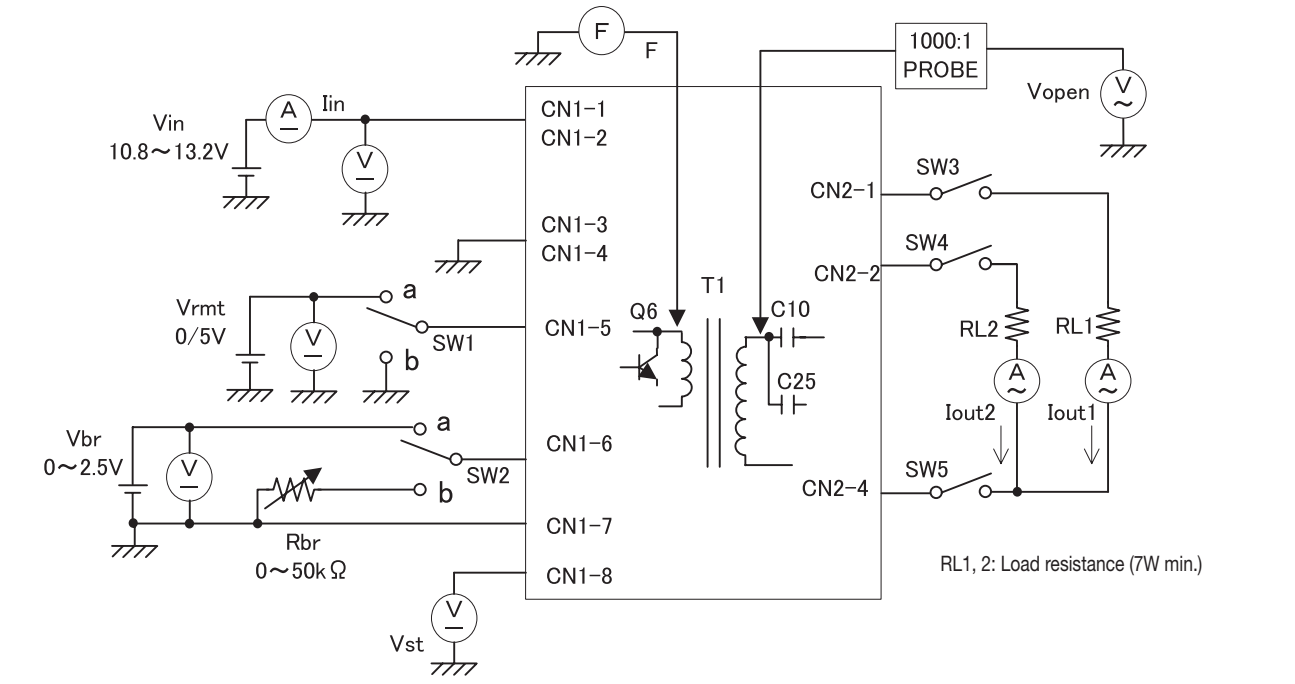
Terminal No.	Symbol	Rating	Remarks
CN1-1 CN1-2	Vin	12±1.2V	Power source input
CN1-3 CN1-4	GND	0V	Ground
CN1-5	Vrmt	0V/2.5V to Vin	Remote terminal 0 to 0.4V : OFF 2.5V to Vin : ON
CN1-6	Vbr1/Rbr1	0 to 2.5V/0 to 50kΩ	Dimmer terminal 1
CN1-7	Vbr2/Rbr2	GND/0 to 50kΩ	Dimmer terminal 2
CN1-8	Vst(output)	0V/5V	Alarm output Lump open: 5V

Output side CN2

Terminal No.	Symbol	Rating	Remarks
CN2-1	V _{HIGH1}	370Vrms	Output 1
CN2-2	V _{HIGH2}	370Vrms	Output 2
CN2-3	N.C.	—	N.C.
CN2-4	V _{LOW}	(2V)	Output 1, 2 return

Connector type/2 outputs

Connections



Operate as follows by switching a SW1.

SW1	Unit operates
a	Operates
b	Does not operate

Operate as follows by switching a SW2.

SW2	Unit operates
a	Voltage dimmer $V_{br} = 0$ to 2.5V (0V: Maximum brightness)
b	Volume dimmer $VR = 0$ to 50kΩ (0Ω: Maximum brightness)

Operates as follows depending on ON-OFF of SW3 to 5.

SW3~5	Operates alarm output (CN1-8)
Open	Operates (outputs 5V)
Close	Does not operate (outputs 0V)