

Power Supplies

CXA Series CXA-0317

DC to AC Inverters

Connector type, Dimming, 18W, for 4 Bulbs

FEATURES

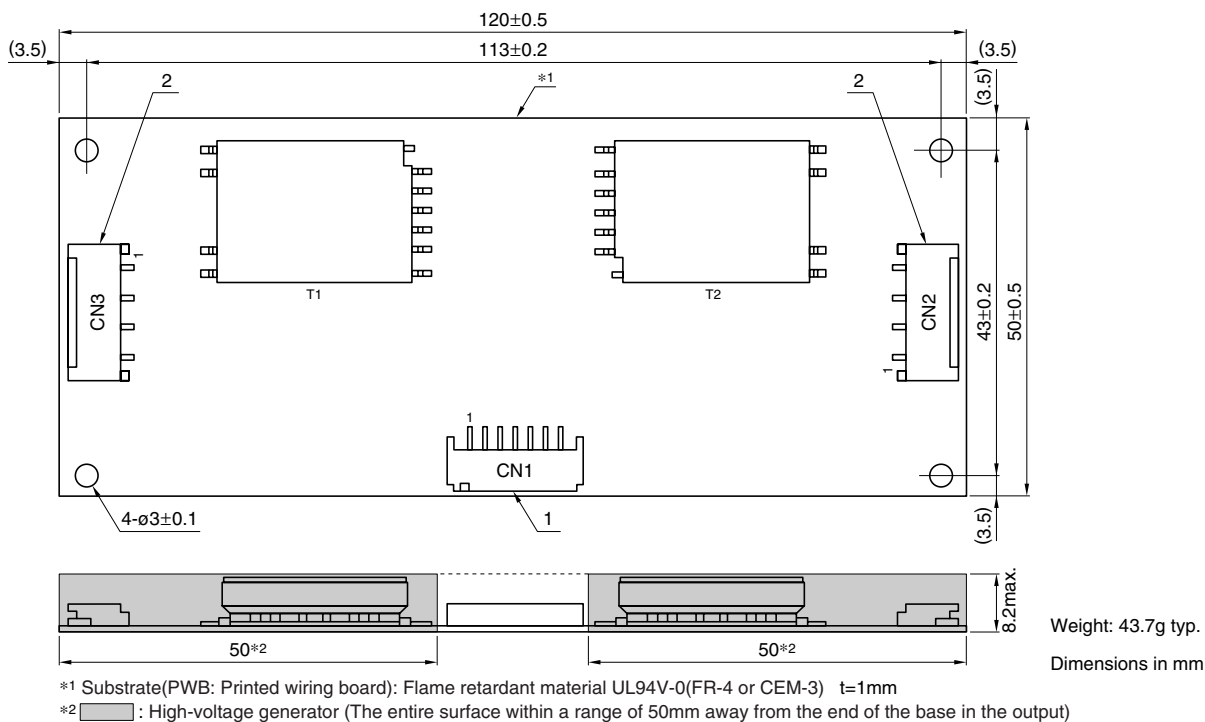
- For 4 bulbs.
- Applicable panel size* : 15-inch
- With brightness control function (Pulse Wide Modulation mode).
- With lamp failure detector.
- The high-voltage terminals and patterns are coated with silicone so as to avoid the defects caused by dust.

* The applicable panel size is for typical reference dimensions.

TEMPERATURE AND HUMIDITY RANGES

Temperature range (°C)	Operating	0 to +60
	Storage	-30 to +85
Humidity range(%)RH		95max. [Maximum wet-bulb temperature 38°C. No dew.]

SHAPES AND DIMENSIONS



	Connector manufacturer's company and type	Symbol
1 Input connector	Japan Solderless Terminal Co., Ltd. S7B-PH-SM3	CN1
2 Output connector	Japan Solderless Terminal Co., Ltd. SM03(7-D1)B-BHS-1	CN2, CN3

TERMINAL NUMBERS AND FUNCTIONS

CN1

Terminal No.	Function	Symbol
CN1-1	Input voltage Edc: 10.8 to 13.2V/12V[nom.]	Vin
CN1-2		
CN1-3	0V	GND
CN1-4		
CN1-5	Brightness dimmer voltage * Edc: 0 to 2.5V (Maximum brightness on 0V)	Vbr
CN1-6	Used in the internal circuits, do not connect.	N.C.
CN1-7	Remote voltage Edc 0 to 0.4V: off/2.5 to 13.2V:on	Vrmt

* Brightness can be controlled by adjusting Vbr within a range of 0 to 2.5V.

CN2

Terminal No.	Function	Symbol
CN2-1	Output 1[High voltage] Irms	3.125 to 7mA V _{HIGH1}
CN2-2	Output 2[High voltage] Irms	3.125 to 7mA V _{HIGH2}
CN2-3	—	N.C.
CN2-4	Output 1 [Low voltage]	(0.6V) V _{Low1}

CN3

Terminal No.	Function	Symbol
CN3-1	Output 3[Low voltage]	3.125 to 7mA V _{HIGH3}
CN3-2	Output 4[Low voltage]	3.125 to 7mA V _{HIGH4}
CN3-3	—	N.C.
CN3-4	Output 2 [Low voltage]	(0.6V) V _{Low2}

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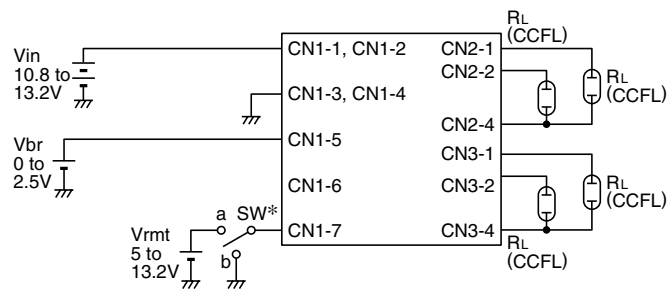
Connector type, Dimming, 18W, for 4 Bulbs

ELECTRICAL CHARACTERISTICS

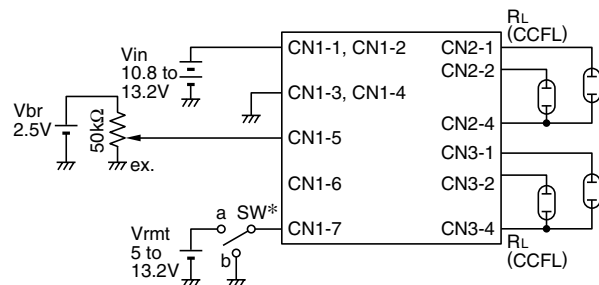
Item	Unit	Symbol	Specification			Condition		$T_a(^{\circ}\text{C})$	$R_L(\text{k}\Omega)$	Brightness
			min.	typ.	max.	$V_{in}(\text{V})$	$V_{br}(\text{V})$			
Output current I_{rms}	mA	I_{out}	6.3	7	7.7	10.8 ± 0.05	0	23 ± 5	90 ± 2	Maximum
			6.3	7	7.7	12.0 ± 0.05	0	23 ± 5	90 ± 2	Maximum
			6.3	7	7.7	13.2 ± 0.05	0	23 ± 5	90 ± 2	Maximum
			2.5	3.125	3.75	12.0 ± 0.05	2.5	23 ± 5	90 ± 2	Minimum
Input current I_{dc}	A	I_{in}	—	1.75	2.5	10.8 ± 0.05	0	23 ± 5	90 ± 2	
Oscillation frequency	kHz	F_L	50	55	60	12.0 ± 0.05	0	23 ± 5	90 ± 2	
Open circuit output voltage E_{rms}	kV	V_{open}	1.5	1.6	—	10.8 ± 0.05	0	23 ± 5	∞	

TYPICAL CONNECTIONS

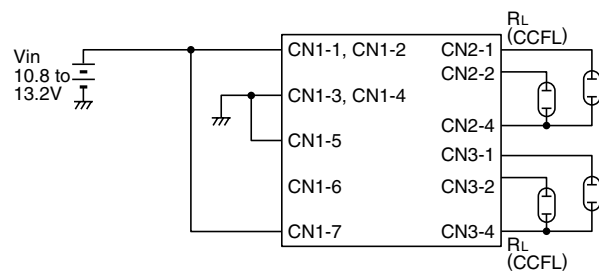
EXAMPLE OF VOLTAGE DIMMER CONTROL



EXAMPLE OF POTENTIOMETER DIMMER CONTROL



NO DIMMER CONTROL



* SW a:on, b:off

BRIGHTNESS DIMMER VOLTAGE- OUTPUT CURRENT CHARACTERISTICS

