

Model LS650

12 Volt Input

Dual Tube CCFT Inverter (4W)

Brightness Control

Physical Specifications

Dimensions:	105mm x 25mm x 10mm (4.13" x 0.98" x 0.39")
Operating Temp:	0 to 60°C, convection cooling
Relative Humidity:	20% to 90%, non-condensing
Storage:	-20 to 85°C/5-95% RH
Impact Resistance:	50G half wave per 2 msec
Vibration Resistance:	10-55-10 Hz/min @ 1.5mm



Input Specifications*

Item	Condition	Standard
Input Voltage Rated Tolerance	— Continuous Operation Starting Condition (Discharge Starting Voltage)	12 Vdc 11.4 V - 12.6 V 11.4 V - 12.6 V
Max. Input Current	V _{IN} = 12 Vdc Luminance @ Max.	440 mA Typ.
Max. Input Power	V _{IN} = 12 Vdc Luminance @ Max.	5.3 W
DC-Bright	I _{OUT} = Max I _{OUT} = Min	1.9 V 1.5 V
DC-Resistor	I _{OUT} = Max I _{OUT} = Min	10 kΩ 0 kΩ

*Above Specifications Occur @ 25 ± 5°C

Output Specifications*

Item	Condition	Standard		
		MIN	TYP	MAX
Output Voltage (Vrms)	V _{IN} = 12 Vdc	—	1000	—
Tube Current for per Lamp (mAmps)	Luminance @ Max. (V _{CONT} = 1.9 V @ 10 kΩ) Luminance @ Min. (V _{CONT} = 1.5 V @ 0 kΩ)	—	5.3 2.6	—
Max. Power Output for 2 Lamps (W)	V _{IN} = 12 Vdc/Luminance @ Max.	—	4.0	—
Ignition Frequency (kHz)	Luminance @ Max.	—	50	—

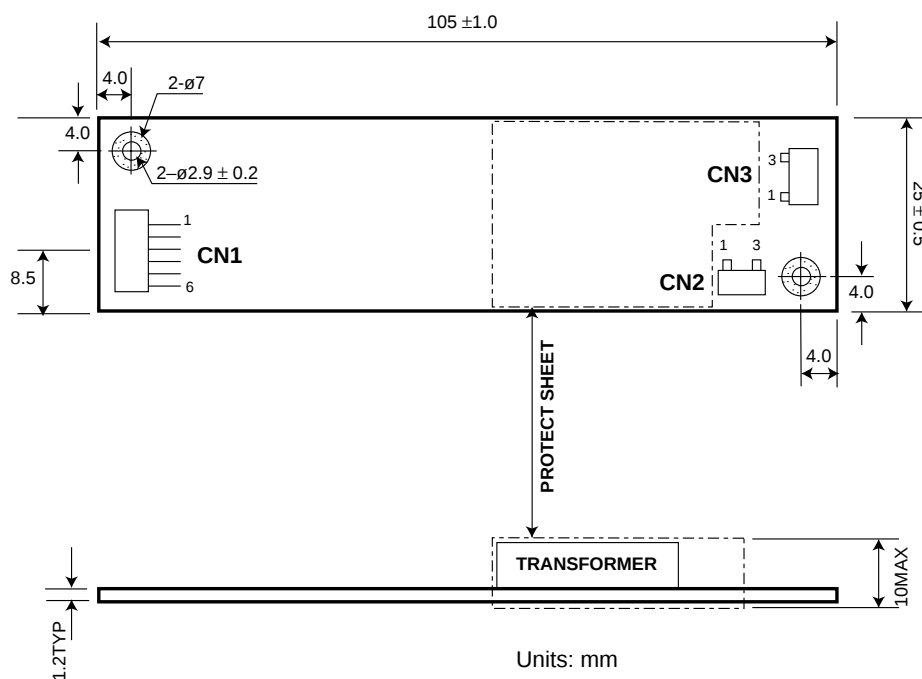
*Above specifications occur @ 25 ± 5°C.

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Luminance Variance

Item	Condition	Applied Voltage	Output Current
Luminance @ Max.	Btwn. pin 6 and GND ₁ or pin 5 & 6	Vcont = 1.9 V or 10 k Ω	5.0 mA (one lamp)
Luminance @ Min.	Btwn. pin 6 and GND ₁ or pin 5 & 6	Vcont = 1.5 V or 0 k Ω	2.4 mA (one lamp)



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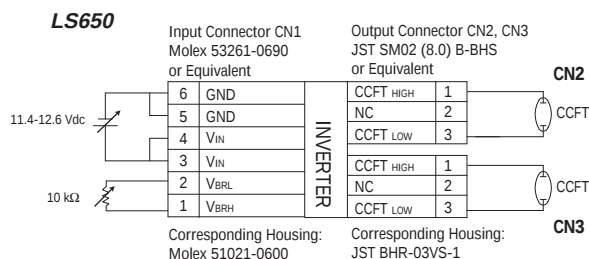


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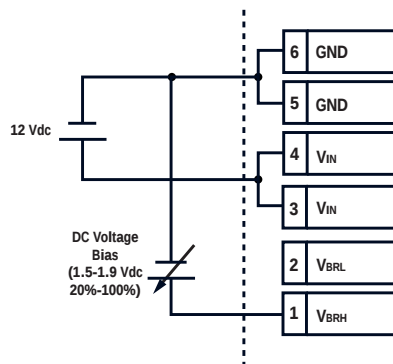
Tech Notes

Connection Diagram

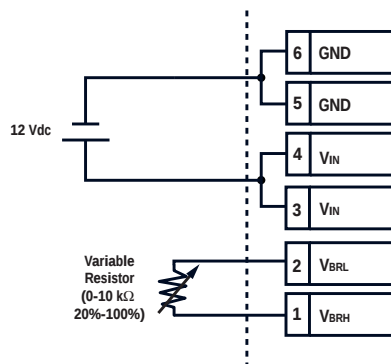


DC Bright Control Method*

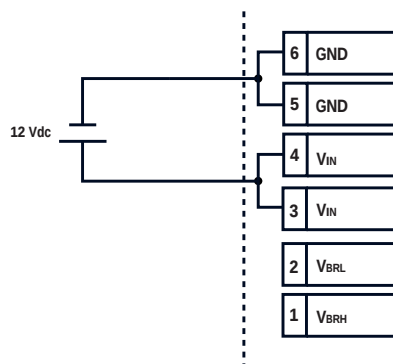
Maximum output current can be adjusted by applying bias voltage or using a variable resistor as shown below.



dimming by applying DC bias voltage



dimming by using a variable resistor



preset to maximum brightness
(continuous)

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