



SLD DIM CB2/ CB2UL Multi-Function Dimming Module

GRE Alpha's Casambi enabled dimming module is a 200 Watt, 2- channel output Constant Voltage LED dimming module that allows for seamless integration with Casambi-enabled luminaires, sensors, wall mounted and wireless switches. This multifunction module can be set up to operate in Tunable White, Dim to Warm, or basic 0-100% dimming modes, within the Casambi App, offering unparalleled flexibility and ease of use.

Features

- Wireless Bluetooth Low Energy communication
- Dual Channel output
- Free Casambi App on Android and iOS
- Unlimited number of luminaire connections
- Comply with EN55015 and FCC Part 15 without additional input filter or capacitor
- Easy to Install, high reliability
- 5 years warranty
- 3 Selectable Operating Modes - Tunable White, Dim to Warm or Basic Dim

Applications

- Retrofit lighting
- Commercial, retail, residential Lighting
- Museum, Hotel, Office lighting
- Tunable White, CCT changing lighting

SLD-DIM-CB2



Casambi Ready Module



Model	Input Voltage Range(Vdc)	Max. Input Current Per Channel(A)	Channel(s) Input	Channel(s) Output	Output Rating		Max Output Power (Per Channels) (W)	Max Output Power (All Channels) (W)
					Voltage (VDC)	Max. Current Per Channel(A)		
SLD-DIM-CB2	8 - 48	10	1	2	Vin - 0.3V	5	100	200
SLD-DIM-CB2-UL	8 - 48	5	2	2	Vin - 0.3V	5	100	200

*- SLD-DIM-CB2 dimming module requires an external CV LED driver, connected to the DC input, and should not exceed the above input voltage range.

*- UL Class 2 certified for use with UL Class 2 LED Drivers.

*- UL marking only for SLD-DIM-CB2-UL model

Input Specification

Voltage Range	Please refer model table	Input Current	Please refer model table
Control	Bluetooth 5.4 via Casambi App	Over Voltage	Auto Recovery upon input voltage under Vin (max)
Short Circuit Protection	Hiccup-Mode, Auto-Recovery upon removal of short circuit condition.	Under voltage Logout	Auto Recovery upon input voltage under Vin (max)
Over Temperature Protection	Auto recovery upon operating temperature <105°C		

Output Specification

Output Frequency	1.6 kHz PWM	Output Current	5A max. at full load **
Power Efficiency	97% Typ	Dimming Ratio	1:1000

** - SLD-DIM-CB2 dimming module max. output current is dependent on LED driver output current , which should not exceed the Class 2 maximum of 5A or 100W per output channel.

Environmental Specification

Ambient Temperature	Storage Temp	Relative Humidity
- 20°C ~ 60°C (Full Load)	- 40°C - 85°C	5% - 93 %

Compliance / Safety

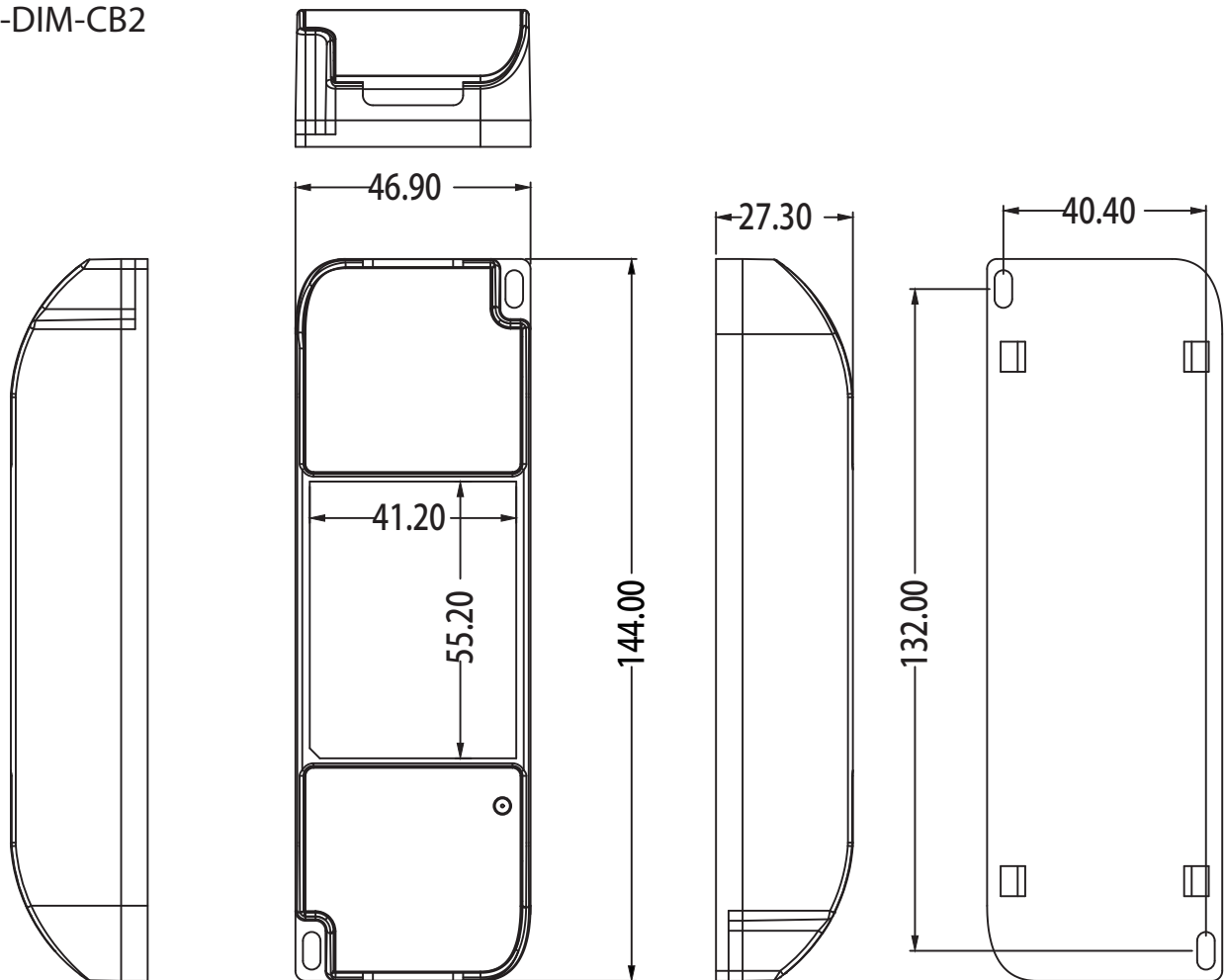
Wireless Standards	Bluetooth 5.4
Weatherability	IP20
Radio Test	Casambi Ecosystem Radio Test
Type of Action	1
Purpose of control	Electronic, Operating Control
Pollution Degree	2 for overall control; 1 for micro-environment
Installation method	Independently Mounted

Mechanical Specification

Power Unit Dimensions	SLD-DIM-CB2:144mm (L) x46.9mm (W) x 27.3mm (H) SLD-DIM-CB2-UL: 98mm (L) x44mm (W) x 14.5mm (H)
Case Design/Material	Case Design/Material
Connectors	SLD-DIM-CB2: WAGO terminal block connectors. 24 - 16 AWG(0.25-1 mm) Use Copper Conductors Only, Vin+, Vin-, Cool+, Cool-, Warm+, Warm-, SLD-DIM-CB2-UL: Flying leads 18AWG, Vin1+, Vin1-, Vin2+, Vin2-, Cool+, Cool-, Warm+, Warm-

Mechanical Diagram

SLD-DIM-CB2



Packing Information:

0.08kg/pc; 50 pcs/carton;

5.4kg/ carton; L312*W158*H268(mm)

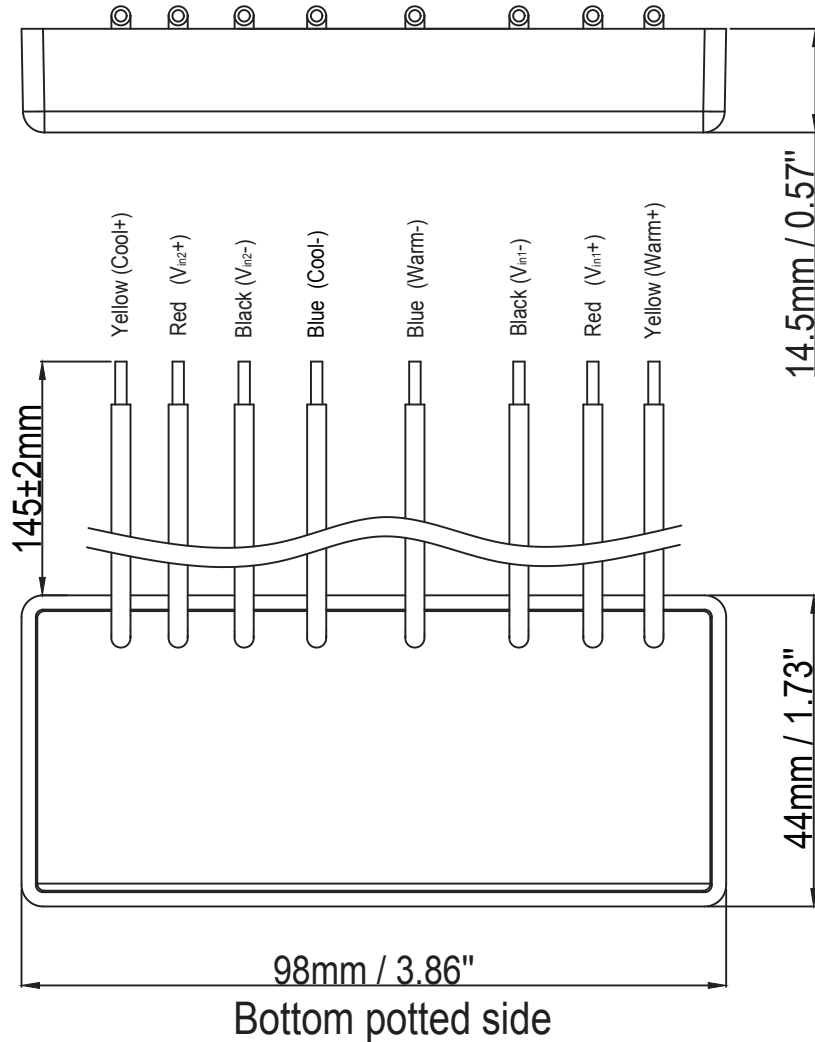
GRE Alpha undertakes extensive testing on its dimming modules to ensure dimming compatibility and performance to our best ability. However due to rapidly evolving technology and the wide number of dimmers available GRE Alpha makes no specific recommendations on dimming system selection for its dimming modules and there are no warranties of performance or compatibility implied. Please test product for dimming compatibility before use.

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Mechanical Diagram

SLD-DIM-CB2-UL



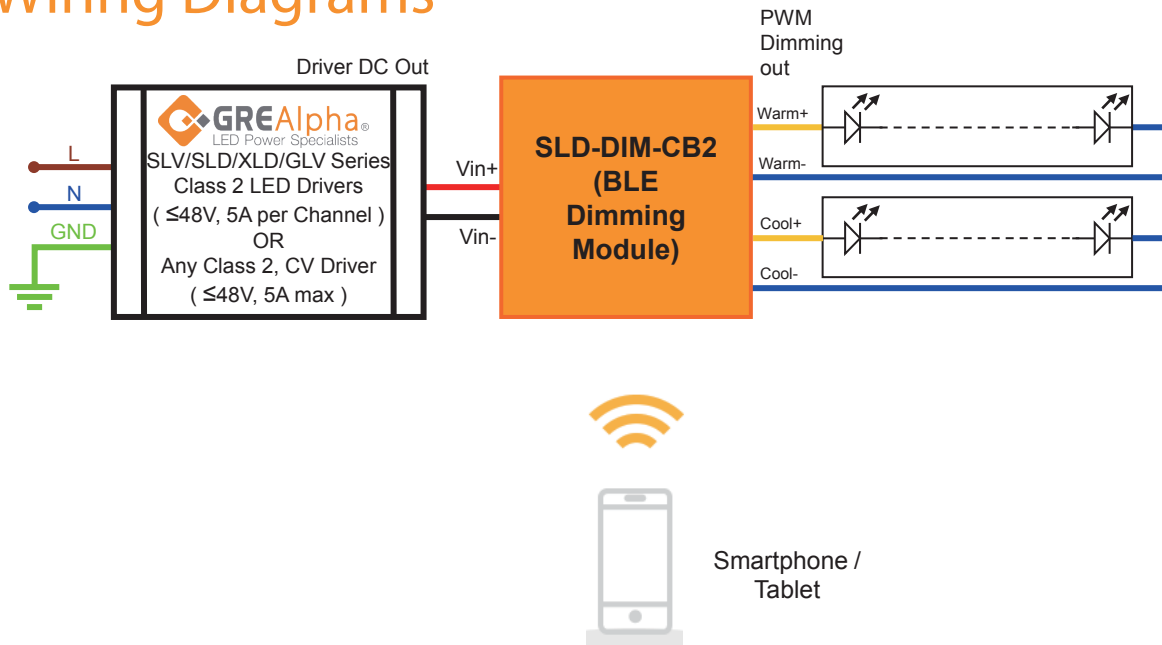
Input Wire		Output Wire	
Black	Vin1 -	Yellow	Warm +
Red	Vin1 +	Yellow	Cool +
Red	Vin2 +	Blue	Warm -
Black	Vin2 -	Blue	Cool -

Packing Information

0.11 kg/pcs ; 100pcs/carton;

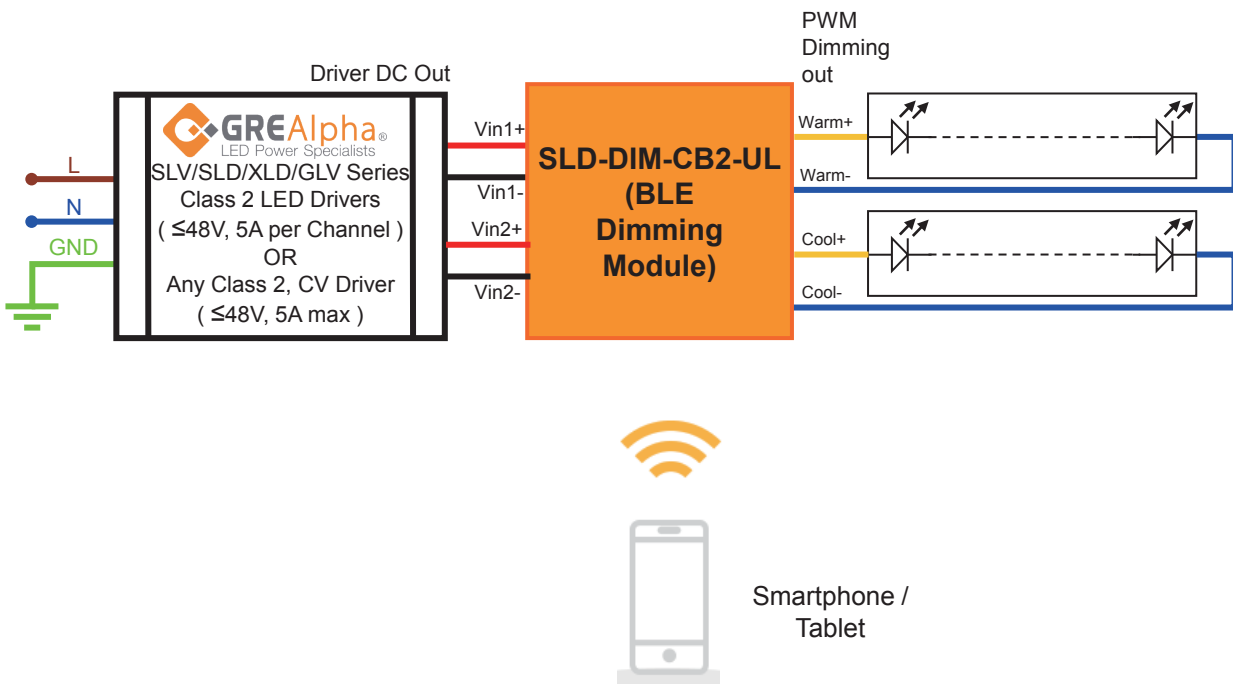
12.8 kg /carton; L270xW220xH430 (mm)

Wiring Diagrams



-* 0-100% flicker-free performance not guaranteed when used with non-GRE Alpha CV Drivers

SLD-DIM-CB2



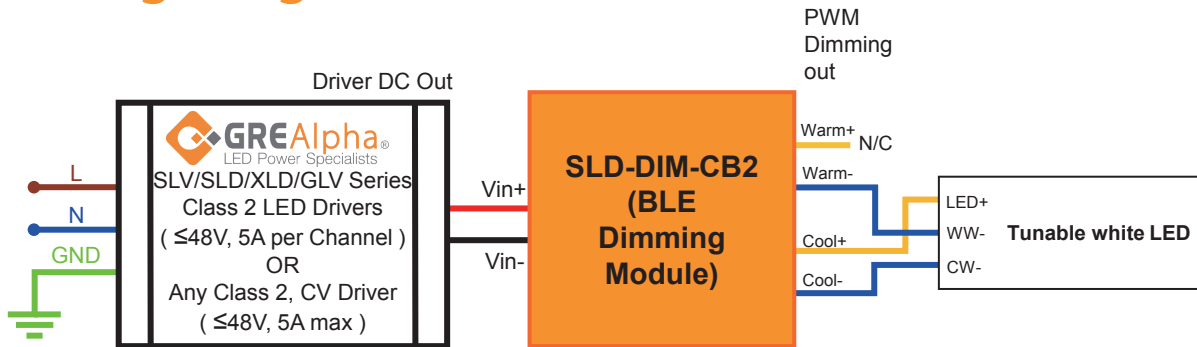
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SLD-DIM-CB2-UL

For use with Class 2 Supply Sources only.

Do not interconnect output wires of these supply sources.

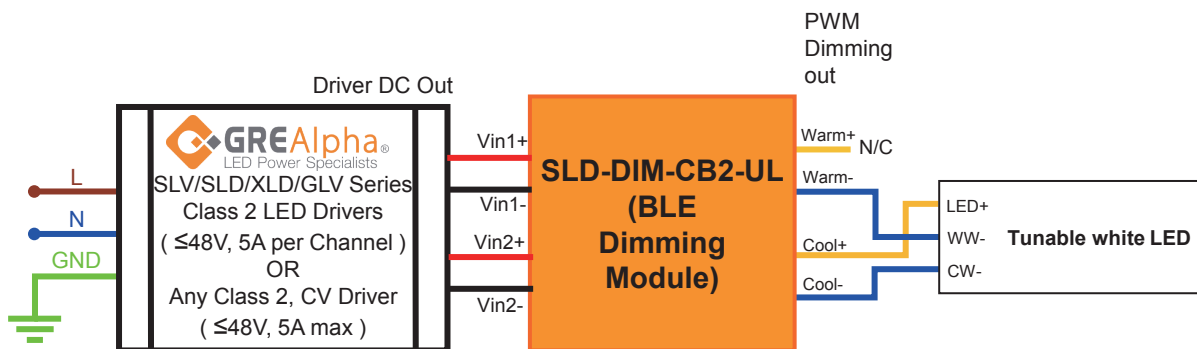
Wiring Diagrams



Smartphone /
Tablet

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SLD-DIM-CB2



Smartphone /
Tablet

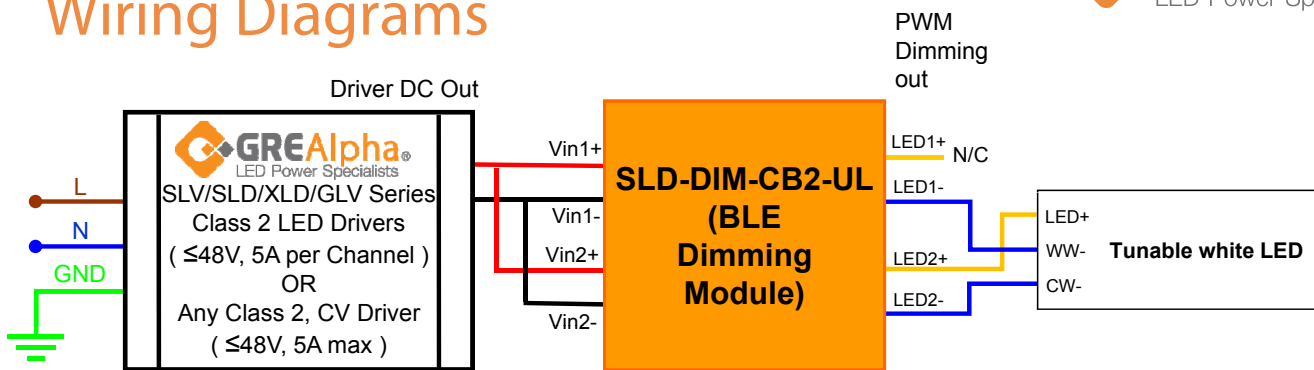
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SLD-DIM-CB2-UL

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First Time Use/Pairing Instructions

1. Connect the SLD-DIM-CB2 dimming module per the Wiring Diagram.
2. Power on
3. Download the Casambi App from the App Store (for iOS devices) or Google Play (Android devices) and follow the instructions on the Casambi App.

This dimming module can operate in 3 different modes - Tunable White, Dim to Warm or Basic Dim. For information on how to change to different operating modes, please refer to the "Casambi Ready Dimming Module Set Up and User Instructions" on our website.

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