



## SLD DIM CB5-UL Multi-Function Dimming Module

GRE Alpha's Casambi enabled dimming module is a 500 Watt, 5- channel output Constant Voltage LED dimming module that allows for seamless integration with Casambi-enabled luminaires, sensors, wall mounted and wireless switches. This module enables RGB + Tunable White control and dimming, with user adjustable color and control characteristics via the Casambi App, enabling unparalleled flexibility and ease of use.

### Features

- Wireless Bluetooth Low Energy communication
- Five Channels\*\*: R-G-B-W-W Outputs
- 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

### Applications

- Retrofit lighting
- Commercial, retail, residential Lighting
- Museum, Hotel, Office lighting
- RGBWW color changing lighting

# SLD-DIM-CB5



## Casambi Ready Module



Model	Input Voltage Range(Vdc)	Channel(s) Current Per Channel(A)	Channel(s) Input	Channel(s) Output	Output Rating		Max Output Power (Per Channel) (W)	Max Output Power (All Channels) (W)
					Voltage (VDC)	Max. Current Per Channel(A)		
SLD-DIM-CB5	8 - 48	12	1	5	Vin - 0.3V	5	100	500
SLD-DIM-CB5-UL*	8 - 48	5	5	5	Vin - 0.3V	5	100	500

\*- SLD-DIM-CB5/SLD-DIM-CB5-UL 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. Do Not Interconnect Secondary Output Wires.

\*\*- SLD-DIM-CB5-UL can operate with 1, 2, 3, 4 or upto 5 output channels for different applications such as Tunable White or RGBW using different profiles on the Casambi App. The Profiles can be set up at the factory. Please contact GRE Alpha for further support.

## Input Specification

Voltage Range	Please refer model table	Input Current	Please refer model table
Control	Bluetooth 5.0	Over Voltage	Auto Recovery upon input voltage under Vin (max)
Short Circuit Protection	Hiccup-Mode, Auto-Recovery upon removal of short circuit condition.	Over Temperature Protection	Auto recovery upon operating temperature <105°C

## Output Specification

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

\*\* - SLD-DIM-CB5-UL 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

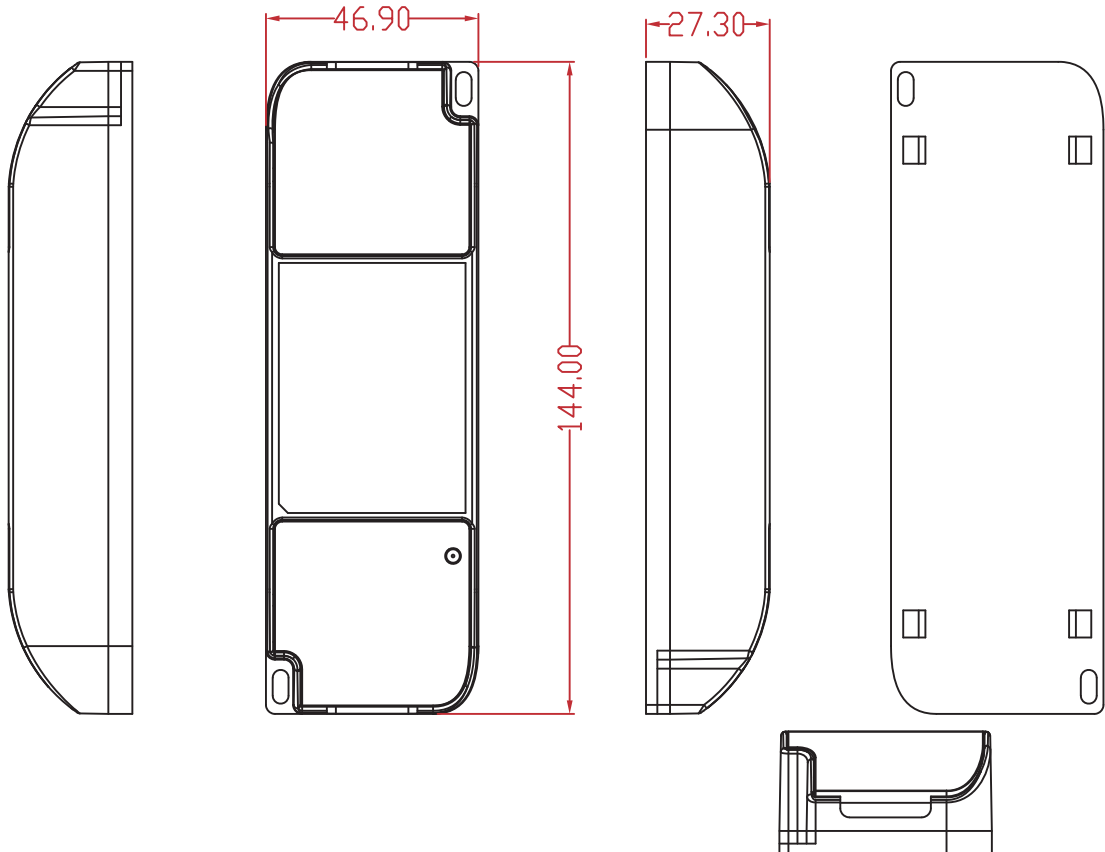
Wireless Standards	Bluetooth 5.0
Safety Standards	UL 60730-1; CSA E 60730-1
Weatherability	IP20: SLD-DIM-CB5 IP65: SLD-DIM-CB5-UL
Radio Test	Casambi Ecosystem Radio Test
Purpose of Control	Electronic, Operating Control
Pollution Degree	2 for overall control; 1 for micro-environment
Protection Against Electric Shock Class	Class III
Overvoltage Category	I
Type of Action	1

## Mechanical Specification

Power Unit Dimensions	SLD-DIM-CB5:144mm (L) x46.9mm (W) x 27.3mm (H) SLD-DIM-CB5-UL: 98mm (L) x44mm (W) x 14.5mm (H)
Case Design/Material	Polycarbonate White
Wire Length	6 inches/152.4mm (SLD-DIM-CB5-UL)
Wire Size	18 AWG standard, 300V, 105°C (SLD-DIM-CB5-UL)
Installation Method	Independently Mounted

## Mechanical Diagram

### SLD-DIM-CB5



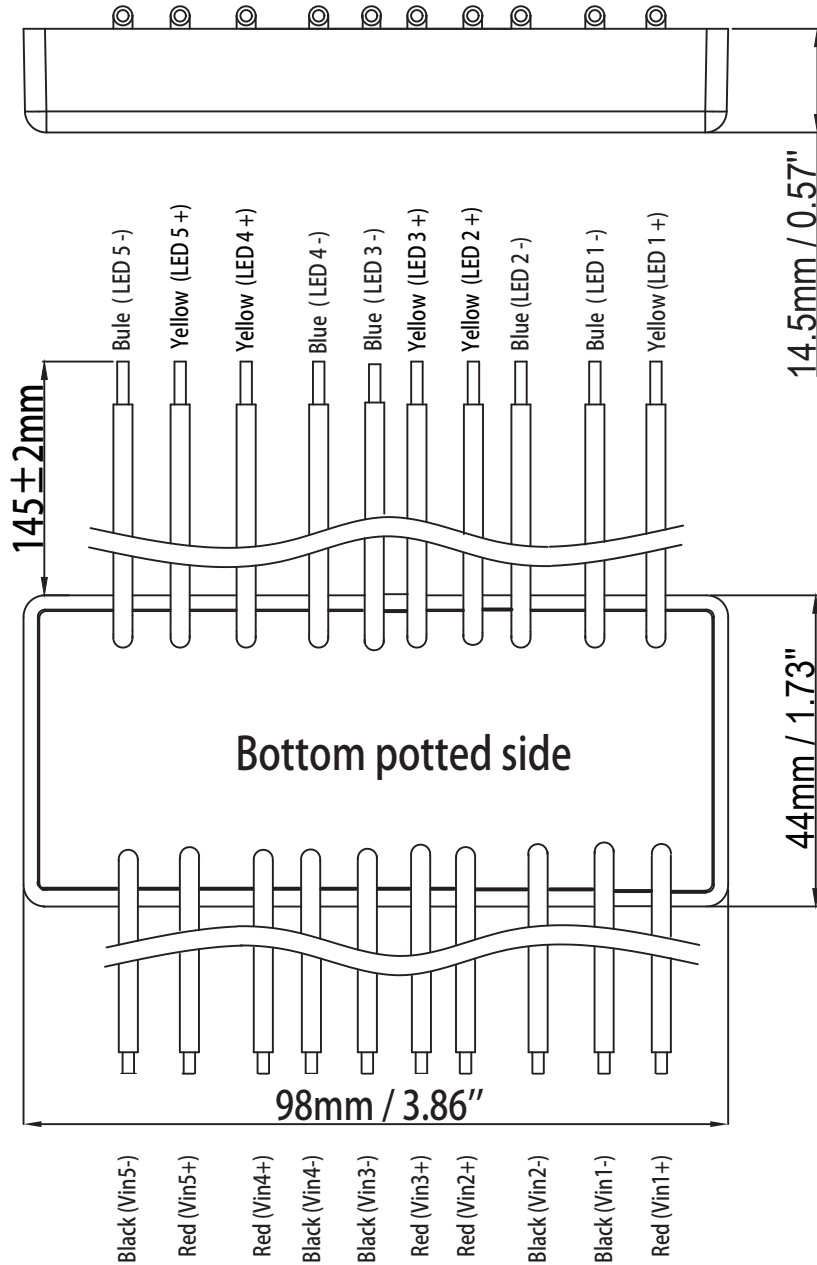
#### Packing Information:

0.08kg/pc; 50 pcs/carton;

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

# Mechanical Diagram

## SLD-DIM-CB5-UL



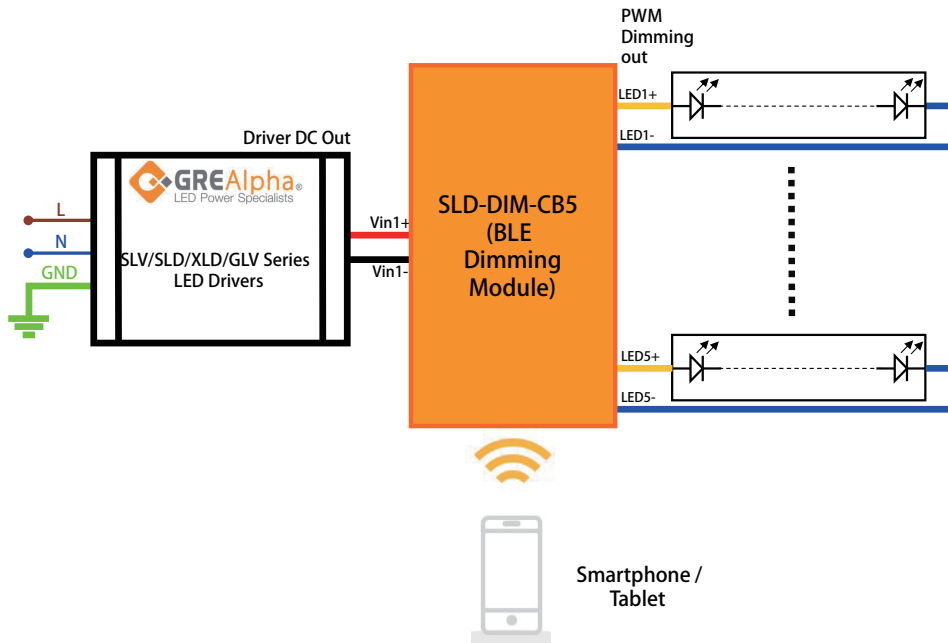
Input Wire		Output Wire	
Red	Vin1 +, Vin2 +, Vin3 +, Vin4 +, Vin5 +	Yellow	LED1 +, LED2 +, LED3 +, LED4 +, LED5 +
Black	Vin1 -, Vin2 -, Vin3 -, Vin4 -, Vin5 -	Blue	LED1 -, LED2 -, LED3 -, LED4 -, LED5 -

### Packing Information

0.11 kg/pcs ; 100pcs/carton;

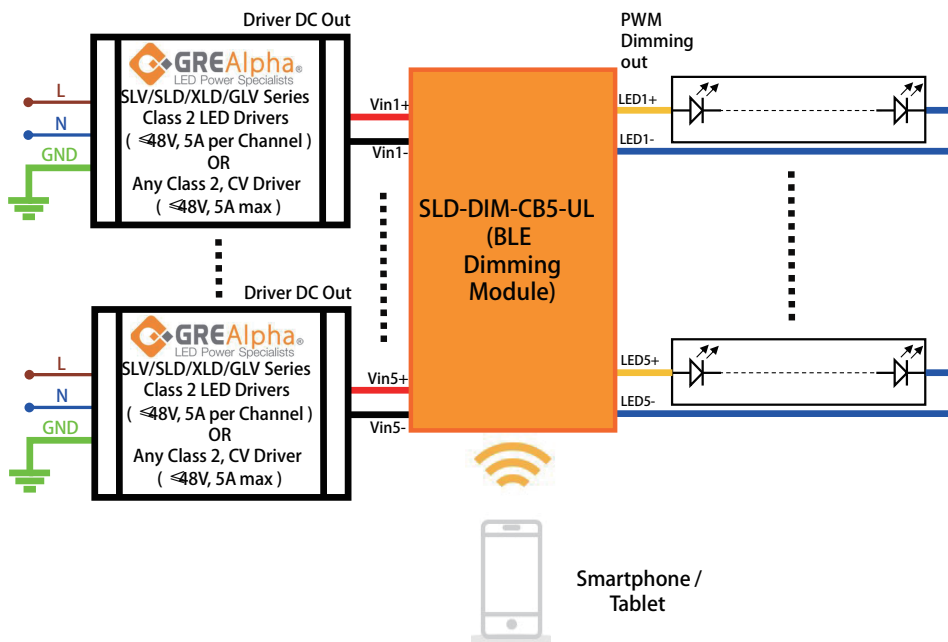
12.8 kg /carton; L270xW220xH430 (mm)

# Wiring Diagrams



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

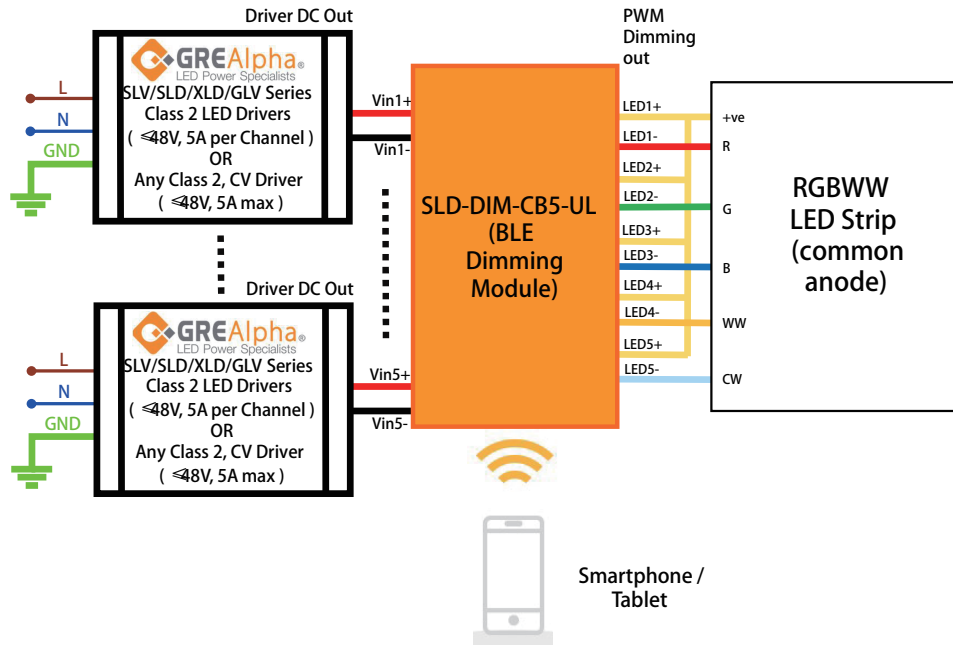
## SLD-DIM-CB5



-\* 0-100% flicker-free performance not guaranteed when used with non-GRE Alpha CV Drivers  
 - One LED driver can be used to connect to more than one input on the SLD-DIM-CB5-UL, given that the LED driver is a constant voltage UL Class 2 driver, and the total output does not exceed the limits of the LED driver..

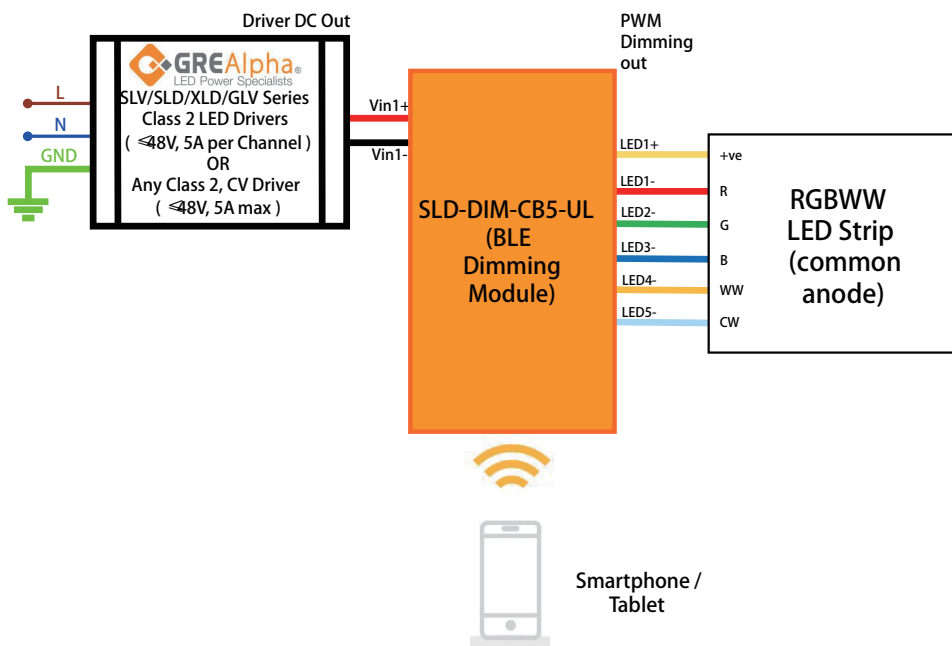
## SLD-DIM-CB5-UL

# Wiring Diagrams



-\* 0-100% flicker-free performance not guaranteed when used with non-GRE Alpha CV Drivers  
- For LED with common anode, please ensure the +ve outputs are interconnected as shown

SLD-DIM-CB5-UL



-\* 0-100% flicker-free performance not guaranteed when used with non-GRE Alpha CV Drivers  
- Unused input or output wire leads should be properly protected from short circuit.  
- Output current per channel for the above configuration is 1A max.

SLD-DIM-CB5-UL

## First Time Use/Pairing Instructions

1. Connect the SLD-DIM-CB5-UL 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 different modes. 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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