



LED Wireless Dimming Module

The SLD-SmartDim-ZB1 is a constant voltage wireless enabled dimming module that supports up to 240 Watts of power. The SLD SmartDim is a Zigbee enabled dimming module, compliant with IEEE 802.15.4 standard for wireless networks, the SLD SmartDim works with a wide variety of smart switches and controls enabling ease of upgrade to Zigbee enabled lighting management systems. ZigBee(R) is the open, global standard of choice for connected lighting applications providing ease-of-use and low-cost installation and maintenance for both consumers and business. When paired with a Zigbee enabled lighting system, the SLD-SmartDim provides smooth, flicker free 0-100% dimming and fast response times enabling easy to-use control over constant voltage LED fixtures and lighting luminaires

SLD-SmartDIM-ZB1

DC/DC (ZigBee + PWM)
LED Wireless Dimming Module



Features

- Zigbee enabled wireless dimming module
- 240 Watt, Wide range DC input 8-48V
- High efficiency up to 95%
- High precision dimming ratio : >1:1000
- Compatible with IEEE 802.15.4 Zigbee Light Link Enabled devices
- Suitable for LED lighting and signage applications
- Easy to Install, compact size, high reliability
- UL cUL Listed, CE, FCC Class B Compliant without additional input

Applications

- Architectural Lighting
- Effect & Contour Lighting
- Office General Illumination
- Warehouses
- Street Lighting
- Signage
- Strip Lighting
- Swimming Pools/Fountain lighting

Model	Input Voltage Range (Vdc)	Output Voltage Range *	Max. Output Current (A) **	Max Output Power (W)	Power Efficiency (Typ)
SLD-SmartDIM-ZB1	8 - 48V	Vin - 0.2V~0.5V	5	240	97%

*- SLD-SmartDIM-ZB1 dimming module requires an external CV LED driver, connected to the DC input, and should not exceed the above input voltage range.

Input Specification

Voltage Range	Please refer model table	Input Current	5A max
Control	ZigBee	Control Range	0-100%
Short Circuit Protection	Hiccup-Mode, Auto-Recovery upon removal of short circuit condition.	Over Voltage	Auto Recovery upon input voltage under Vin (max)
Over Temperature Protection	Auto recovery upon operating temperature <105°C	Under voltage Logout	Auto Recovery upon input voltage over Vin (min)

Output Specification

Output Frequency	500Hz PWM	Output Current	5A max. at full load **
Power Efficiency	97% Typ	Dimming Ratio	1:1000

** - SLD-SmartDIM-ZB1 dimming module max. output current is dependent on LED driver output current , which should not exceed the Class 2 maximum of 5A OR 100W.

Environmental Specification

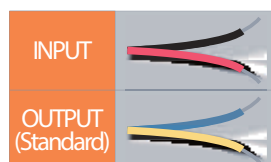
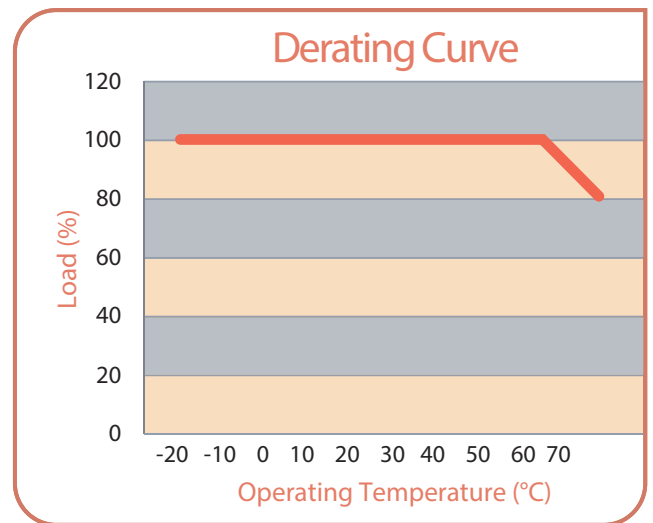
Ambient Temperature	Storage Temp	Relative Humidity
- 20°C - 60°C (Full Load)	- 40°C - 85°C	5% - 95 %

Compliance / Safety

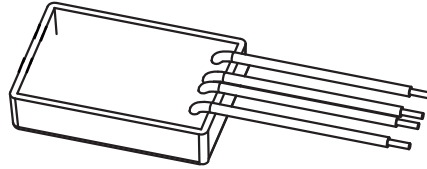
Safety Standards:	UL8750,UL879
Weatherability:	IP 65

Mechanical Specification

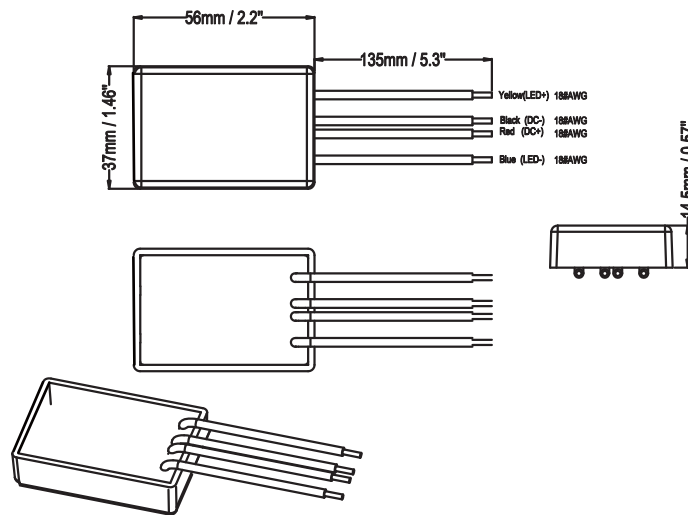
Power Unit Dimensions	56mm (L) x 37mm (W) x 14.5mm (H)
Case Design/Material	Plastic Casing
Wire Length	6 inches 152.4mm
Wire Size	18AWG standard, 300V, 105deg C (DC input and Dim Output wires)



Mechanical Diagram



Power Unit Dimensions: 56mm(L)*37mm(W)*14.5mm(H)
 Wire Size: 18AWG standard, 300V, 105degC(DC input and Dim Output wires)

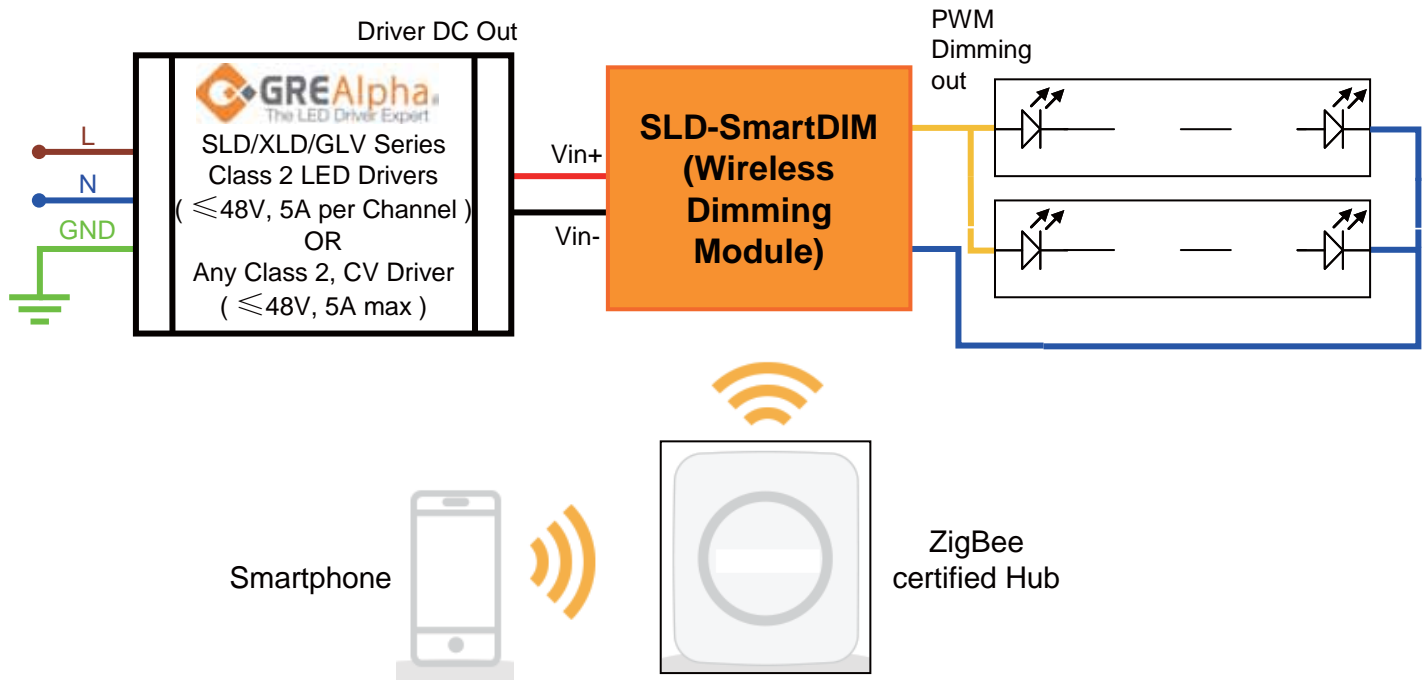


Input Wire		Output Wire	
Red	DC + Input	Yellow	Dim Output +
Black	DC - Input	Blue	Dim Output -

Packing Information

Weight: 55 g/pcs,
 60pcs/ carton - 4.66 kg /carton; L245xW230xH185 (mm)

Wiring Diagrams



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

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