





Smart-Dim-PWM 240W LED Dimming Module

The SLD Smart-DIM DC dimming module is design to provide flicker-free (PWM) pulse width modulated dimming in PWM dimming applications. With over 95% effciency, this smart, power saving module offers extreme flexibility, ease of use and is compatible with commercial PWM dimmer controls. This accessory isideal when combined with an AC-DC driver to enable dimming of LED fixtures. The SLD-DIM-PWM can be incorporated into an SLD/XLD series enclosure, eliminating the need for external junction boxes, for quick and easy installation.

Features

- Wide range DC input 8V 48V
- 0-100% Dimming
- High efficiency up to 95%
- Suitable for LED lighting and signage applications
- Fully isolated plastic housing
- Comply with EN55015 and FCC Part 15 without additional input filter and capacitors
- Compact size, high reliability
- 3 year warranty

Applications

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

Model	Input Voltage Range (Vdc)	OutputVoltage Range *	Max. Output Current (A) **	Max Output Power (W)	Power Efficicency (Typ)
SLD-DIM-PWM-5A/	8 - 48V	Vin-0.2~0.5V	5	240	95%
CLD DIM DMM EA/I)					

^{*-} SLD-DIM-PWM 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 8V-48V PWM Input Frequency 150Hz-1KHz PWM Input Voltage Range 5V-48V

Output Specification			
Output Frequency	150Hz-1kHz	Output Current	SLD-DIM-PWM-5A: 0.1A-5A
Power Efficiency	95% Typ	Dimming Ratio	Upon PWM Dimming Control Source
Max Output Power	240W	Over Current Protection	Hiccup-Mode, Auto-Recovery upon removal of short circuit condition
PWM Output Delay	<1uS	Over Votage Protection	Auto-Recovery upon input voltage over Vin(Max)
Over Temp. Protection	Auto-Recovery upon Tc<95°C(+/-5%)	PWM Output	PWM Input(Pass Through)

Environmental S	pecification			
MTBF	Ambient Temperature	Case Temp	Storage Temp	Relative Humidity
>50,000 hrs@60°C Ta Full Load	-20°C - 60°C (Full Load)	-20°C - 95°C	-40°C - 85°C	5% - 95 %

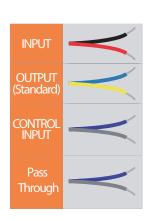
Compliance / Safety

Safety Standards: CE,FCC Title 47 FCR 15 Class B

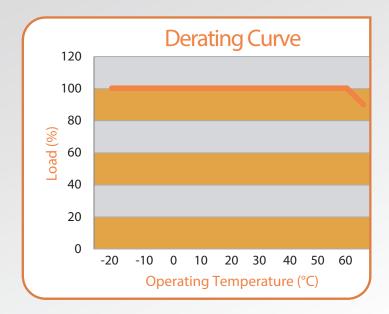
Compliant

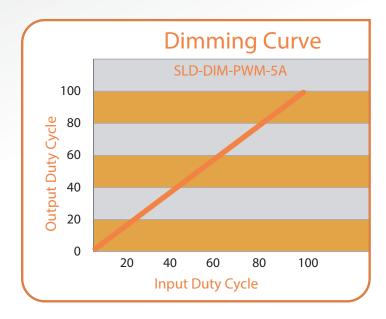
Weatherability: IP 65

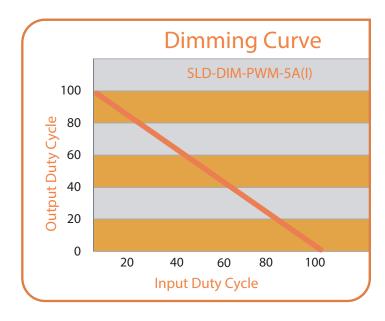
Mechanical Sp	ecification
Power Unit Dimension	56mm (L) x 37mm (W) x 14.5mm (H)
Case Design/Material	Polycarbonate White
I/O Wire Length	125mm(+/-5mm)
Wire Size	a. 18AWG standard, 300V, 105deg C(DC input and Dim Out put wires)b. 22AWG standard, 300V, 105deg C(1-10V control wires)





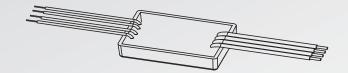


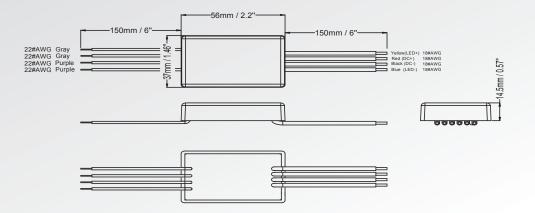












Input Wire		
Red	DC + Input	
Black	DC Input GND	
Gray	PWM Input+	
Purple	PWM Input-	

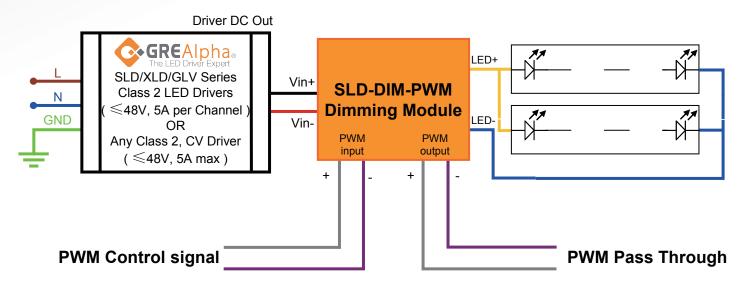
Output Wire		
Yellow	LED Output +	
Blue	LED Output -	
Gray	PWM Output+ (Pass Through)	
Purple	PWM Output - (Pass Through)	

Packing Information

Weight: 55 g/pcs,

60pcs/carton - 4.66 kg/carton; L245xW230xH185 (mm)

Wiring Diagrams



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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