LED.





SLD-DIM-PWM

ED Dimming Module.



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

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- Wide range DC input 8V - 48V
- Flicker-free 0-100% Dimming
- High efficiency up to 95%
- High precision dimming ratio
- Fully isolated plastic housing
- Comply with EN55015 and FCC Part 15 without additional input filter and capacitors
- Suitable for LED lighting and signage applications
- 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%
SLD-DIM-PWM-5A(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% Тур	Dimming Ratio	Upon PWM Dimming Control Source	
Max Output Power	240W	Over Current Protection	4Hz Hiccup-Mode, Auto-Recovery upon removal of short circuit condition	
PWM Output Delay	<1uS	Over Votage Protection	Auto-Recovery upon input voltage over 110% of Vin(Max)	
Over Temp. Protection	Auto-Recovery upon Tc<95°C(+/-5%)	UVLO	Auto-Recovery upon input voltage below 10% of Vin(Min)	
PWM Output	PWM Input(Pass Through)			

Environmental Specification				
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 %

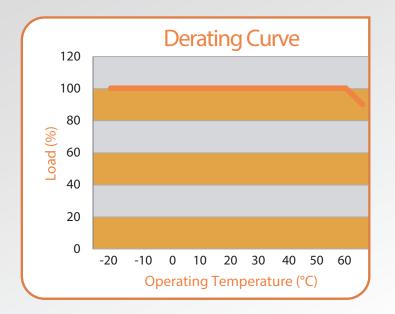
Compliance / Safety

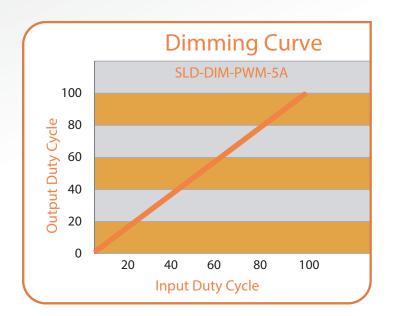
Safety Standards:	CE,FCC Title 47 FCR 15 Class B Compliant,UL48,UL8750,UL Class 2
Weatherability:	IP 65

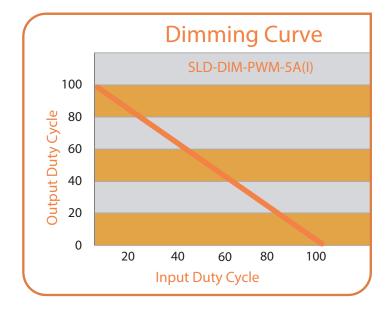
Mechanical Specification			
Power Unit Dimension	56mm (L) x 37mm (W) x 14.5mm (H)		
Case Design/Material	Polycarbonate White		
I/O Wire Length	125mm(+/-5mm)		
Wire Size	 a. 18AWG standard, 300V, 105deg C(DC input and Dim Out put wires) b. 22AWG standard, 300V, 105deg C(1-10V control wires) 		

INPUT	\checkmark
OUTPUT (Standard)	
Control INPUT	\checkmark
Pass Through	\checkmark



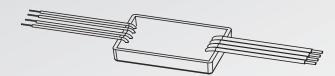


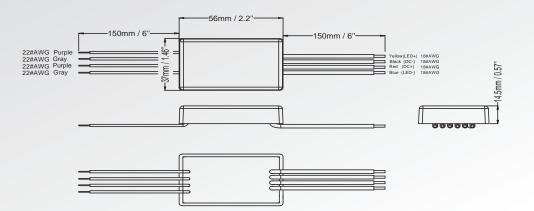






Mechanical Diagram

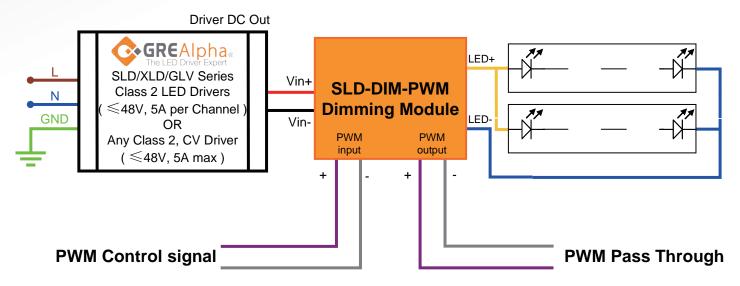




Input Wire		Output Wire		
Red	DC - Input	Yellow	LED Output +	
Black	DC Input GND	Blue	LED Output +	
Purple	PWM Input+	Purple	PWM Output+ (Pass Through)	
Gray	PWM Input-	Grey	PWM Output - (Pass Through)	

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

Wiring Diagrams



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