SLD-DIM-DALI

For Philips Master LED MR16 ExpertColor Series
DALI 240W LED Dimming Module

CE   FC   RoHS COMPLIANT   c UL us LISTED

GREAlpha®
LED Power Specialists

Intelligent DALI(R) Dimmer
For Home Automation

Designed for Philips Master LED MR16 ExpertColor Series to meet the newest in DALI(Digtal Addressable Lighting Interface) Lighting control IEC 62386, the GRE Alpha DALI(R) Dimmer provides flexibility and ease of use for smart home lighting automation projects. Working with DALI Lighting controllers has never been easier. With wide input voltage settings and compatibility with DALI(R) enabled Lighting control systems, the GRE Alpha DALI Dimmer module provides smooth, 0-100% linear dimming with <0.1 Watts of standby power.

Features

- Designed for Philips MR16
- 0-100% Dimming
- Low standing Power
- High Efficiency up to 97%
- 255 Dimming levels
- With terminal block connectors for easy connection
- 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 years warranty

Applications

- DALI Lighting Control
- Home Automation
- DALI LED Lighting Fixtures
- Interior and Exterior LED lighting

Model (Ordering Part No.)	Input Voltage Range (Vdc)	Output Voltage Range *	Max Output Current (A)**	Max Output Power (W)	Power Efficiency (Typ)
SLD-DIM-DALI-PH	12V	12V	5	240	97%

* - SLD-DIM-DALI dimming module requires an external CV LED driver, connected to the DC input.
* UL marking: for products manufactured in Vietnam only, effective October 2020.

Input Specification

Voltage Range	12 V		Input Current	5A max
Control Voltage	DALI BUS		Control Range	0-100% DALI protocol
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℃		Under voltage Logout	Auto Recovery upon input voltage over Vin (min)

Output Specification

Output Frequency	1k Hz PWM	Output Current	5A max. at full load **
Power Efficiency	97% Typ	Dimming Level	255 dimming levels

** - Max. output current is dependent on LED driver output current, which should not exceed the Class 2 maximum of 5A
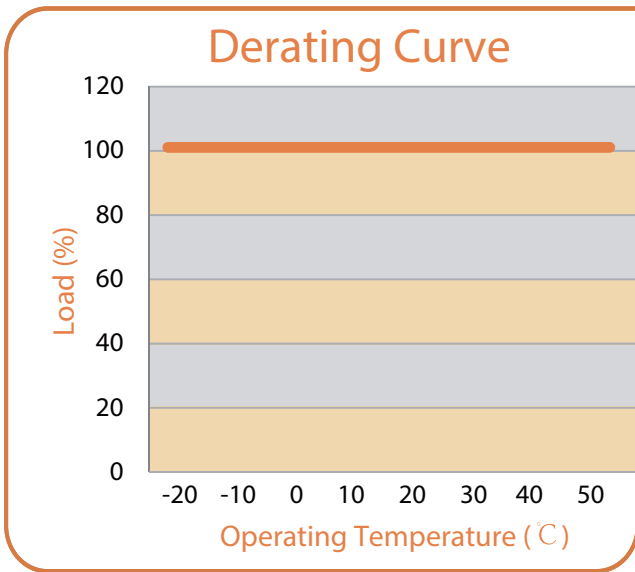
Environmental Specification

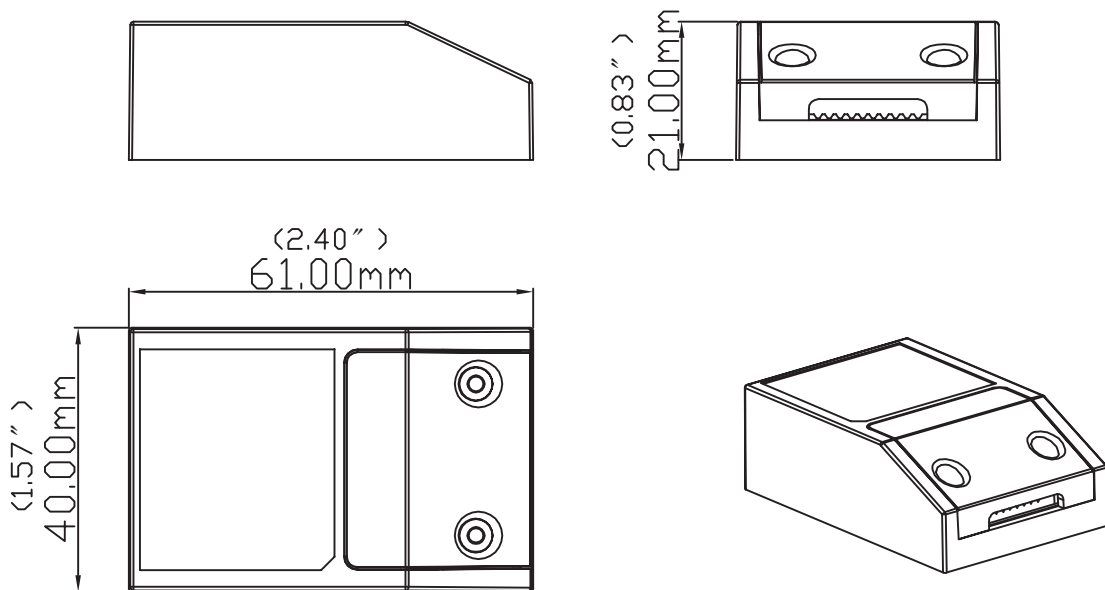| Ambient Temperature	Storage Temp	Relative Humidity
-20℃ to 50℃ (Full Load)	-40℃ - 85℃	5% - 95 %

Compliance / Safety

Safety Standards	EN55015, IEC62386-101 / 102 / 207 UL8750,UL879

Mechanical Specification

Power Unit Dimensions	61mm(L) x 40mm(W) x 21mm(H)
Case Design/Material	Polycarbonate White
Connector Type	WAGO terminal block connectors
Connectors	Vin+, Vin-, DALIx2, LED+, LED-
Wire Size	AWG 24 - 16 (0.25 - 1mm²)

Derating Curve

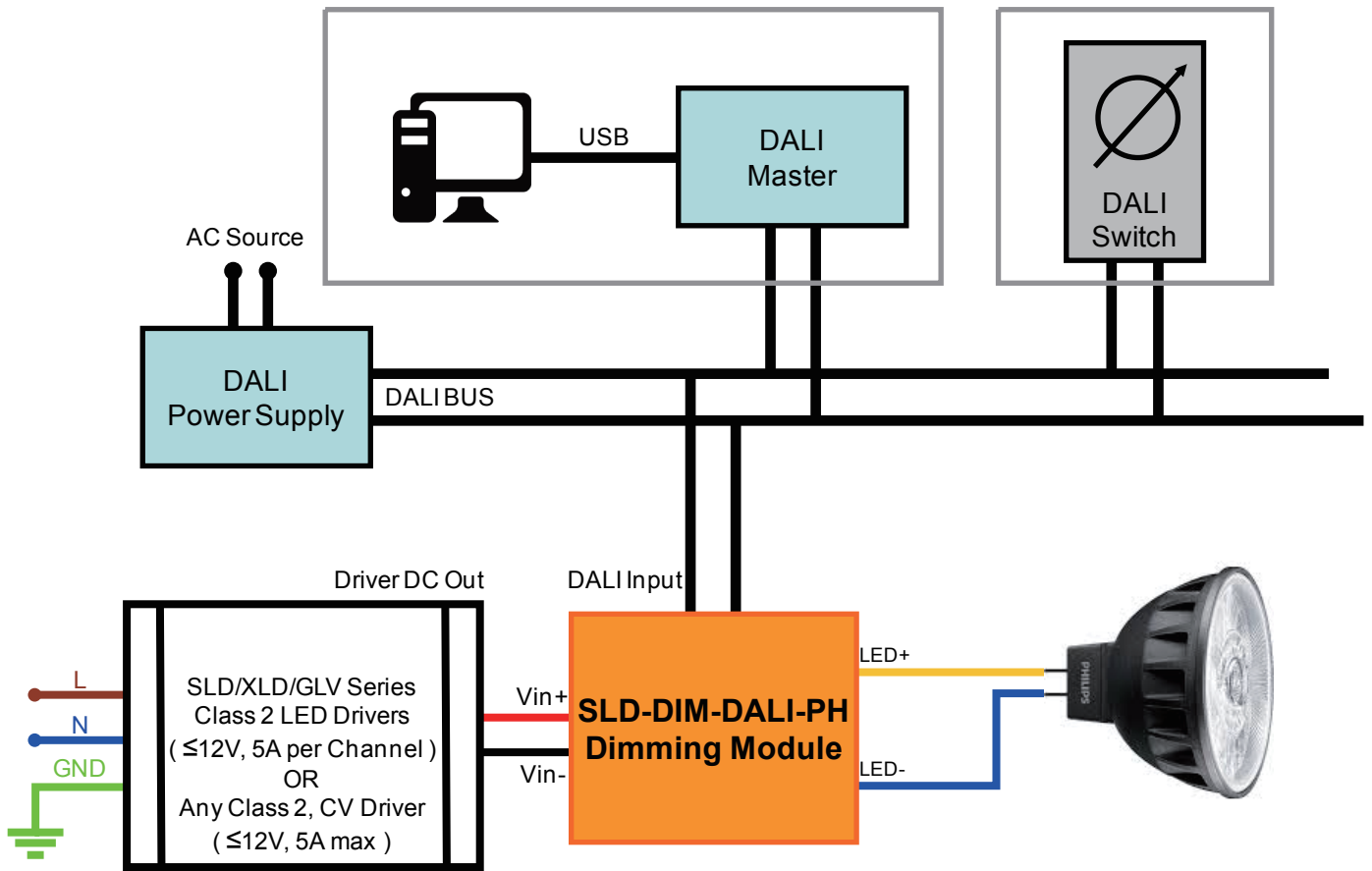Load (%)

120
100
80
60
40
20
0

-20 -10   0   10   20   30   40   50

Operating Temperature (℃)

Mechanical Diagram

〈2.40″〉
61.00mm

〈1.57″〉
40.00mm

〈0.83″〉
21.00mm

Packing Information:

0.04kg/pc; 150 pcs/carton;

6.8kg/ carton; L435*W250*L193(mm)

SLD-DIM-PH_202209

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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