POWER SOURCE

DALI-2 Dimmable LED Driver with PWM Output

# DD2V-360 series

## Features:

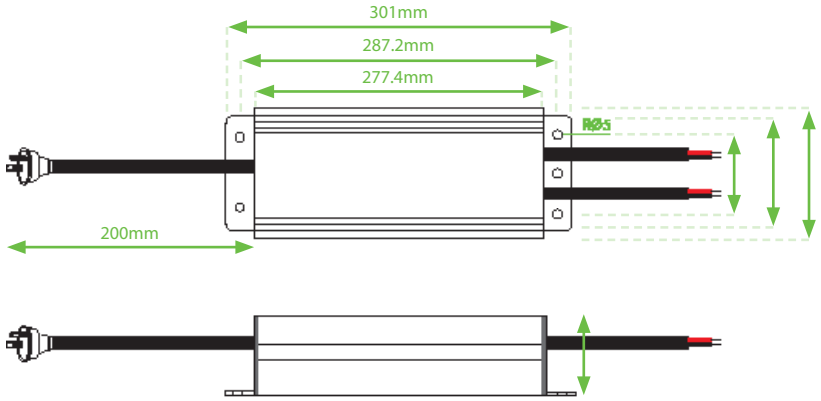
- AC Input Range: 180~240VAC
- Constant Voltage with PWM Output
- Protections: Short Circuit, Over Load, Over Temperature
- Class I Power Supply
- IP66 design for outdoor installation
- Factory fitted flex and AU Plug
- DALI-2 Protocol

IP66 SELV

| Model | | DD2V-360-24 |
|---|---|---|
| Output | DC Voltage (V) | 24V PWM Frequency 20kHz |
| | Voltage Tolerance | ±0.2V (see Note 2.) |
| | Rated Current | 15A |
| | Rated Power | 360W |
| Input | Voltage range | 180-240VAC |
| | Frequency range | 47~63HZ |
| | Power Factor | PF≥0.98/230VAC (Full loading) |
| | Full load efficiency (Typ.) | 93.5% |
| | AC current (Max.) | 2.7A |
| | Leakage Current | <0.50mA |
| | Inrush Current (Typ.) | 65A (Twidth 640us measured at 50% I peak, COLD START, 230VAC) |
| | MAX. No. of drivers on 16A Circuit breaker | 4 units (circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC |
| Protection | Short circuit | Hiccup mode, ≤120%, auto-recovery after fault condition is remove |
| | Over loading (Note 4.) | ≤120%, hiccup mode, recover automatically after fault condition is removed |
| | Over temperature | Ambient 55°C ±10%, recovers when temp drops |
| Environment | Working TEMP. | -40 ~ +60°C (refer to de-rating curve) |
| | Working humidity | 20-95%RH, non-condensing |
| | Storage TEMP., humidity | -40~+80°C,10-95%RH |
| | TEMP. coefficient | ±0.03%/°C (0-50°C) |
| | Vibration | 10-500Hz, 2G 102min./1 cycle, period for 60min, each along X, Y, Z axes |
| Safety & EMC | Safety standards | EN61347-1 EN61347-2-13 EN62493 IP66 |
| | Withstand voltage | I/P-O/P:3.75KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC |
| | Isolation resistance | I/P-O/P I/P-FG O/P-FG:100MΩ/500VDC/25°C/70%RH |
| | EMC emissions (Note 3.) | EN55015, EN61000-3-2, EN61000-3 |
| | EMC immunity | EN61000-4-2,3,4,5,6 ,11, EN61547 |
| Others | Net. weight | 1.15kg |
| | Size | 301*78*25.1mm (L*W*D) |
| | Packing | 390*325*185mm 20PCS/CTN G.W 24KN/CTN |
| Notes | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.<br>2. Tolerance: Includes set up tolerance, line regulation and load regulation.<br>3. The LED driver is considered as a component that is operated in conjunction with final equipment. EMC performance could be affected by the complete installation. Original equipment manufacturers may need to conduct additional EMC testing and certification on the final equipment.<br>4. Loading range from 10% to 100%.<br>5. Specifications are subject to change without prior notice. Contact your supplier to confirm any critical parameters. | |

## Mechanical Specifications

- Input: 1m AU Flex and Plug.
- Output: Rubber Cable 2*1.50mm$^{2,}$ Red: (V+) Positive, Black: (V-) Negative.
- Dimming: Bue: DA, White DA (Non-Polarised)



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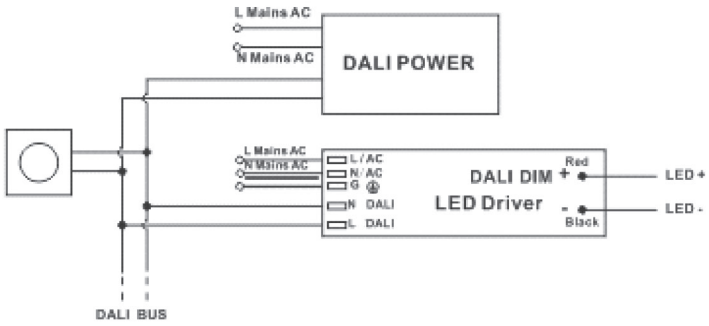
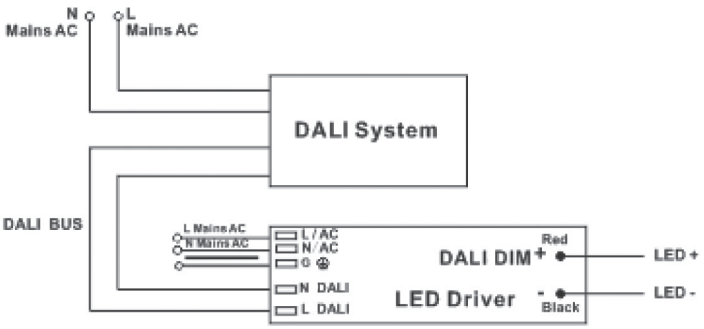
## Single Driver Connection Diagram

DALI Dimming Wiring Diagram1




Dimmer

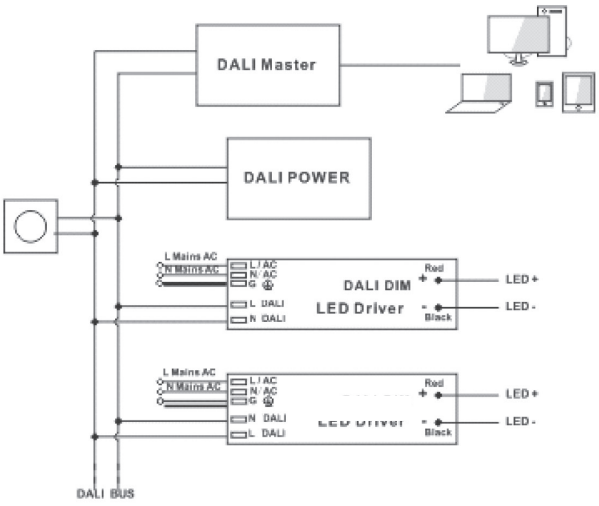
DALI Dimming Wiring Diagram2



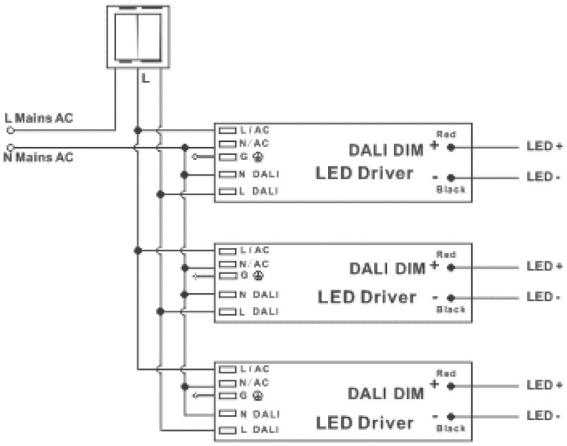

System

## Multiple Drivers Connection Diagram

DALI Dimming Wiring Diagram3

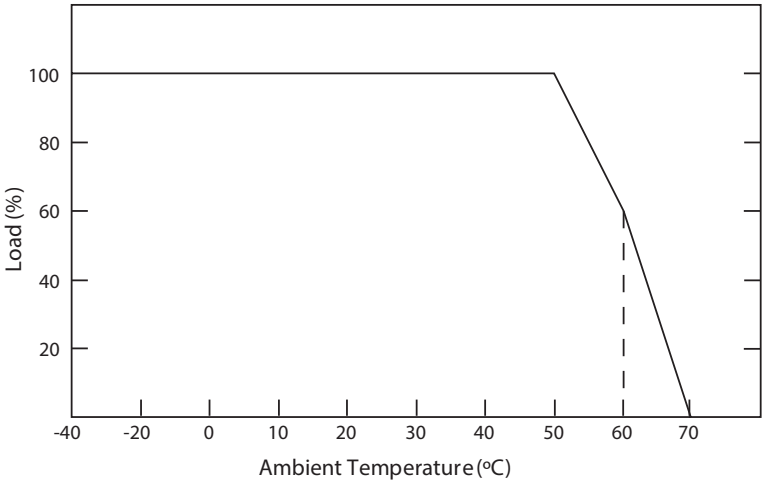



DALI Dimming Wiring Diagram




Dimmer (with ON/OFF function)

## De-rating Curve




- If being used in higher ambient temperatures, ensure the load on the LED driver is de-rated in accordance with this chart. Failure to do so could lead to a failure, which is not covered

1) Refer to Power Source Installation Manual.
2) Do Not Cover.
3) This LED driver should be installed by a qualified electrician.
4) Please make sure the LED driver is installed with adequate ventilation around it to allow for heat dissipation.
5) Ensure that all wiring is correct before testing in order to avoid damage to the LED driver, or the LEDs.