Azoogi DALI 2 & PUSH 2 in 1 Dimmable Drivers

Introducing our new and improved DALI2 & PUSH 2-in-1 Dimmable LED Driver, designed to deliver enhanced performance and versatility. Engineered for seamless integration with modern lighting systems, this driver is compatible with 12V and 24V configurations and is available in 60W, 100W, 150W, 200W, and 300W power options.

FEATURES AND BENEFITS:

✓ **Dual Dimming Protocols:** Supports DALI2 (IEC62386) and PUSH-DIM for precise and flexible dimming control.

✓ **Advanced Efficiency:** Achieves up to 90% efficiency, ensuring energy-saving and reliable operation.

✓ **NFC Functionality:** Easily configure output voltage, set addresses, and fine-tune settings using NFC handheld devices or the EasyNFC app.

✓ **Dimming Range:** Offers a wide dimming range from 0-100%, with LED starting at an ultra-low 0.1% for optimal ambience.

✓ **Enhanced Cooling:** Features natural air convection cooling with IP66 protection, making it ideal for indoor and outdoor installations.

✓ **Built-in Protection:** Safeguards against short circuit, overload, and over-temperature for long-lasting durability.

APPLICATION:

❖ Suitable for intelligent LED lighting systems, architectural lighting, and energy-efficient setups in residential, commercial, and industrial environments.
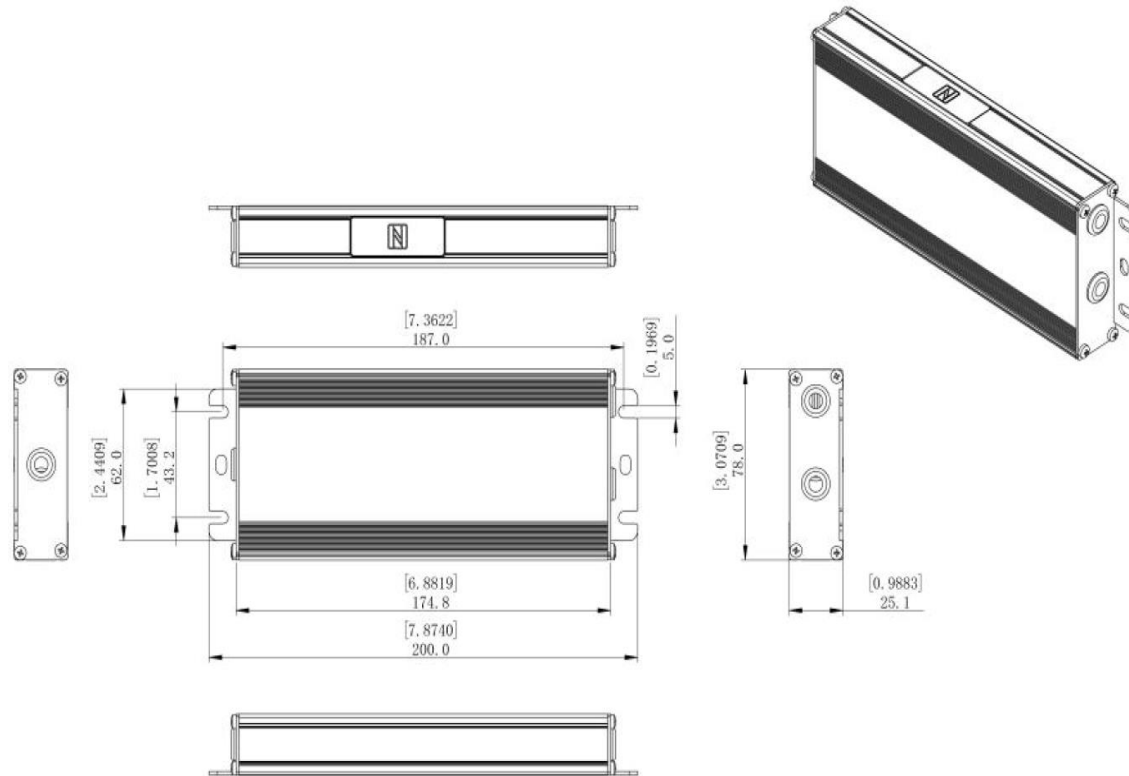
NFC Handheld devices

EasyNFC app

DALI 2 NFC

EasyNFC APP   NFC handheld device

SELV M M 110 F RoHS CE RoHS

12V 24V 5 YEARS WARRANTY

DATASHEET (12V):

Azoogi Product Code	ADR005DA	ADR007DA	ADR009DA	ADR011DA	ADR015DA
Rated Voltage DC (V)	12VDC	12VDC	12VDC	12VDC	12VDC
Rated Power (W)	60W	100W	150W	200W	300W
Output Current Range	5A	8.34A	12.5A	16.67A	25A
Voltage Tolerance	±0.5V	±0.2V	±0.2V	±0.2V	±0.2V
Load Regulation	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%
Standby Power Consumption	≤0.5W	≤0.5W	≤0.5W	≤0.5W	≤0.5W
Voltage Range	110-277VAC	110-277VAC	110-277VAC	110-277VAC	110-277VAC
Frequency Range	47 ~ 63Hz	47 ~ 63Hz	47 ~ 63Hz	47 ~ 63Hz	47 ~ 63Hz
Power Factor (Typ) (277VAC)	PF≥0.92	PF≥0.95	PF≥0.95	PF≥0.95	PF≥0.90
THD (Typ.) (277VAC)	<15%	<15%	<15%	<15%	<15%
Efficiency (Typ.) (277VAC)	88%	89%	91%	91%	90%
Leakage Current	<0.5mA	<0.5mA	<0.5mA	<0.5mA	<0.5mA
AC Current (110VAC)	0.8A	1.3A	1.65A	2.3A	3.5A
Short Circuit	Hiccup mode recovers automatically after the fault condition is removed	Hiccup mode recovers automatically after the fault condition is removed	Hiccup mode recovers automatically after the fault condition is removed	Hiccup mode recovers automatically after the fault condition is removed	Hiccup mode recovers automatically after the fault condition is removed
Overload	≤120% Hiccup mode, recovers automatically after the fault condition is removed	≤120% Hiccup mode, recovers automatically after the fault condition is removed	≤120% Hiccup mode, recovers automatically after the fault condition is removed	≤120% Hiccup mode, recovers automatically after the fault condition is removed	≤120% Hiccup mode, recovers automatically after the fault condition is removed
Over Temperature	Ambient temp. over 55℃±10℃, output will be off; recovers automatically after temp. drops	Ambient temp. over 55℃±10℃, output will be off; recovers automatically after temp. drops	Ambient temp. over 55℃±10℃, output will be off; recovers automatically after temp. drops	Ambient temp. over 55℃±10℃, output will be off; recovers automatically after temp. drops	Ambient temp. over 55℃±10℃, output will be off; recovers automatically after temp. drops
IP Rating	IP66	IP66	IP66	IP66	IP66
Dimensions	200mm x 78mm x 25.1mm	231mm x 78mm x 25.1mm	278mm x 78mm x 25.1mm	278mm x 78mm x 25.1mm	301mm x 78mm x 25.1mm
Weight	0.45kg	0.83kg	1.05kg	1.05kg	1.15kg
Life Span	>50,000 Hrs	>50,000 Hrs	>50,000 Hrs	>50,000 Hrs	>50,000 Hrs
Operating Temperature	-40℃ to +60℃	-40℃ to +60℃	-40℃ to +60℃	-40℃ to +60℃	-40℃ to +60℃
Warranty	5 years	5 years	5 years	5 years	5 years

DATASHEET (24V):

Azoogi Product Code	ADR006DA	ADR008DA	ADR010DA	ADR012DA	ADR016DA
Rated Voltage DC (V)	24VDC	24VDC	24VDC	24VDC	24VDC
Rated Power (W)	60W	100W	150W	200W	300W
Output Current Range	2.5A	4.17A	6.25A	8.34A	12.5A
Voltage Tolerance	±0.5V	±0.2V	±0.2V	±0.2V	±0.2V
Load Regulation	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%
Standby Power Consumption	≤0.5W	≤0.5W	≤0.5W	≤0.5W	≤0.5W
Voltage Range	110-277VAC	110-277VAC	110-277VAC	110-277VAC	110-277VAC
Frequency Range	47～63Hz	47～63Hz	47～63Hz	47～63Hz	47～63Hz
Power Factor (Typ) (277VAC)	PF≥0.92	PF≥0.95	PF≥0.95	PF≥0.95	PF≥0.90
THD (Typ.) (277VAC)	<15%	<15%	<15%	<15%	<15%
Efficiency (Typ.) (277VAC)	88%	89%	91%	91%	90%
Leakage Current	<0.5mA	<0.5mA	<0.5mA	<0.5mA	<0.5mA
AC Current (110VAC)	0.8A	1.3A	1.65A	2.3A	3.5A
Short Circuit	Hiccup mode recovers automatically after the fault condition is removed	Hiccup mode recovers automatically after the fault condition is removed	Hiccup mode recovers automatically after the fault condition is removed	Hiccup mode recovers automatically after the fault condition is removed	Hiccup mode recovers automatically after the fault condition is removed
Overload	≤120% Hiccup mode, recovers automatically after the fault condition is removed	≤120% Hiccup mode, recovers automatically after the fault condition is removed	≤120% Hiccup mode, recovers automatically after the fault condition is removed	≤120% Hiccup mode, recovers automatically after the fault condition is removed	≤120% Hiccup mode, recovers automatically after the fault condition is removed
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Warranty	5 years	5 years	5 years	5 years	5 years

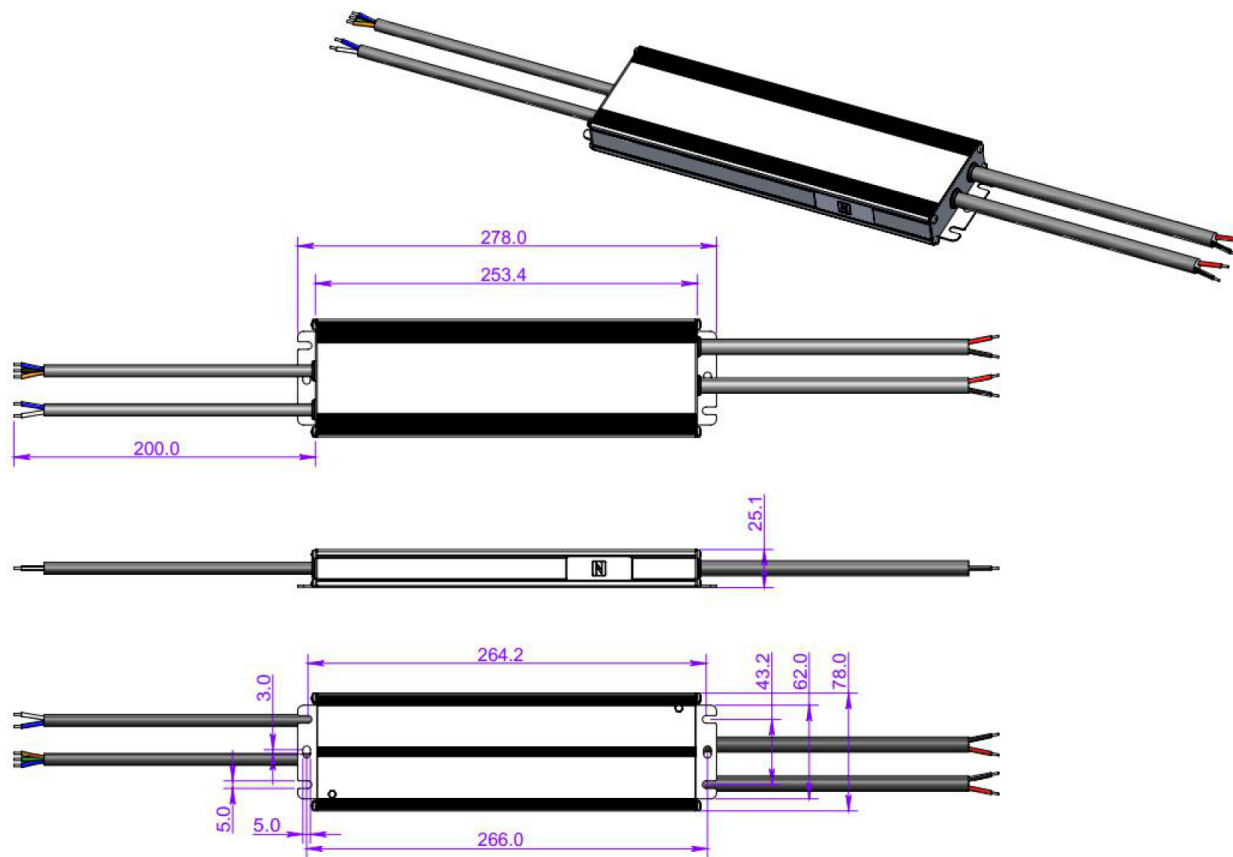## Mechanical Specifications:
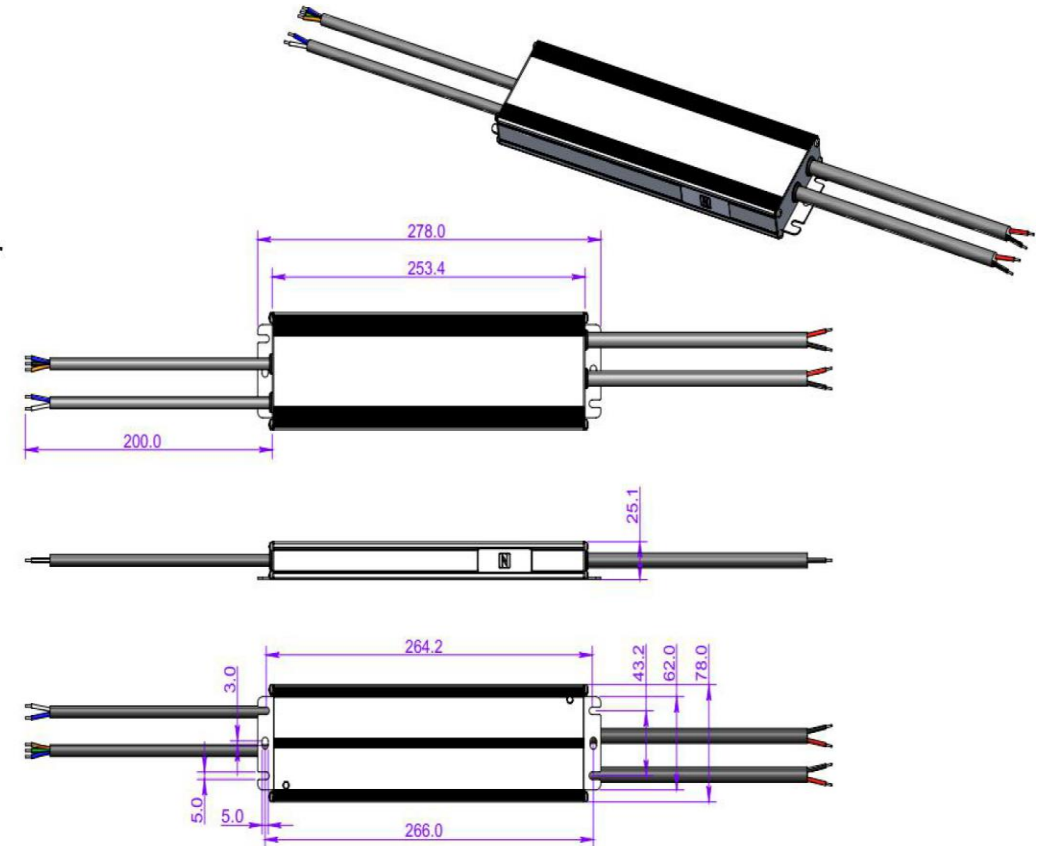
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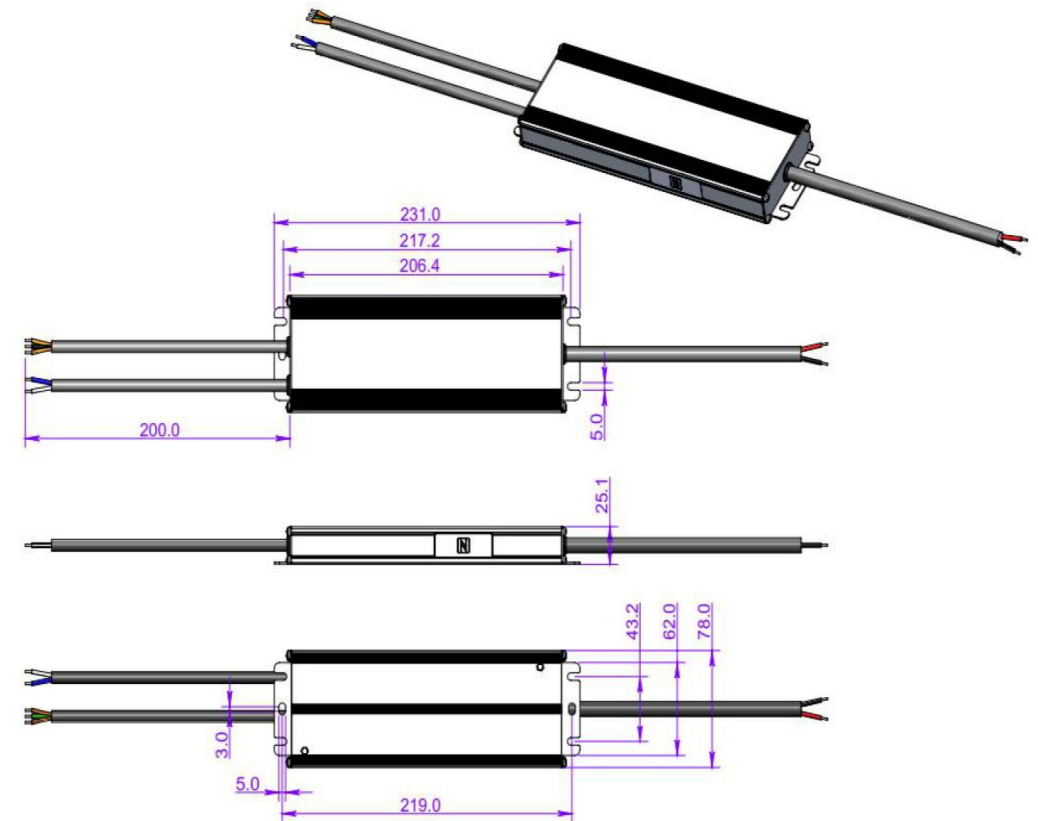
ADR007DA/ADR008DA

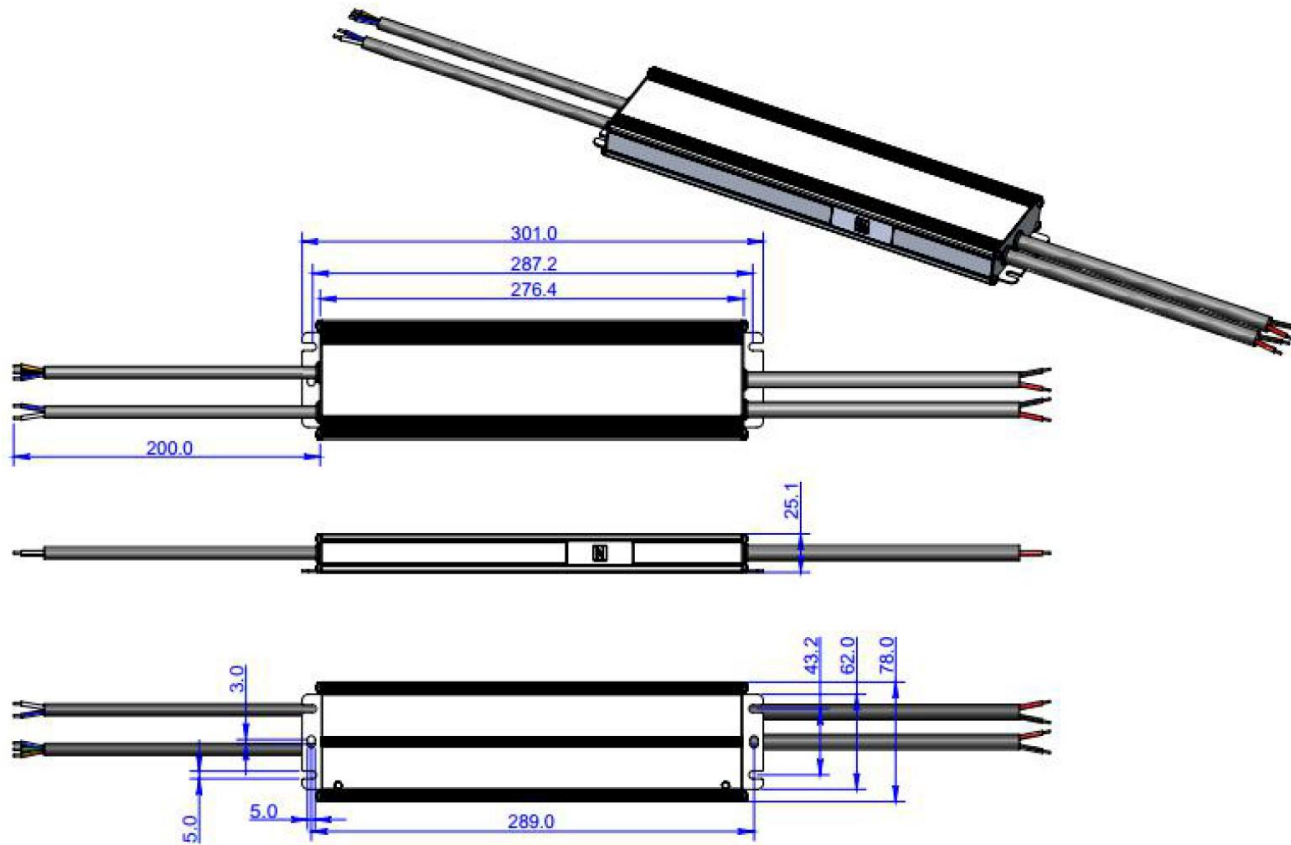## Mechanical Specifications:

ADR009DA/ADR010DA

ADR011DA/ADR012DA

Mechanical Specifications:

ADR015DA/ADR016DA

Dimming Operation:

- Use a 2 × 1.0mm^2 dimming rubber cable for wiring.

- For DALI functionality: Connect the blue (DA/N) and white (DA/L) wires to the DALI BUS. These connections are non-polar, ensuring ease of installation.

- For Push-DIM functionality:

  - Connect the blue (L) wire to the AC live line (L).

  - Connect the white (N) wire to the Push-DIM switch dimmer neutral (N).

⚠ Important: Ensure all connections are made accurately. Incorrect wiring may result in improper functionality or potential damage to the product.

DALI Dimming Wiring Diagram 1:
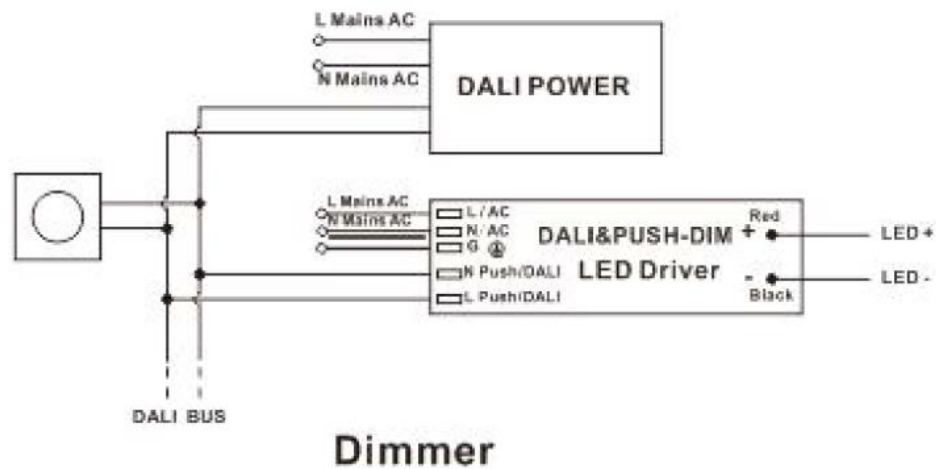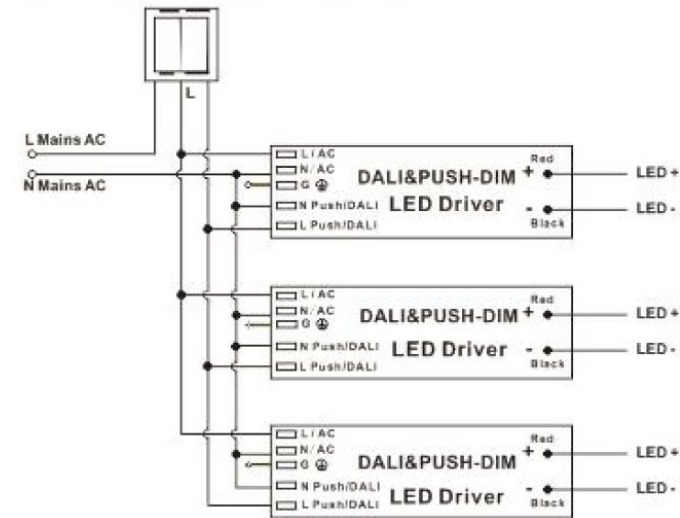

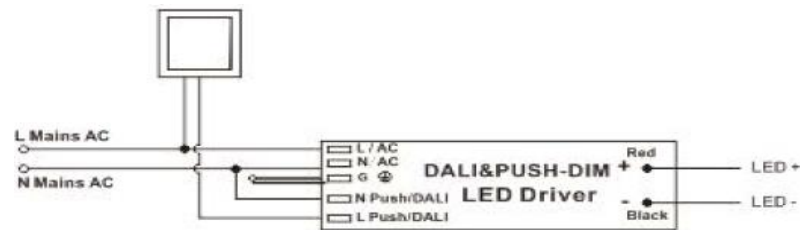## DALI Dimming Wiring Diagram 2:
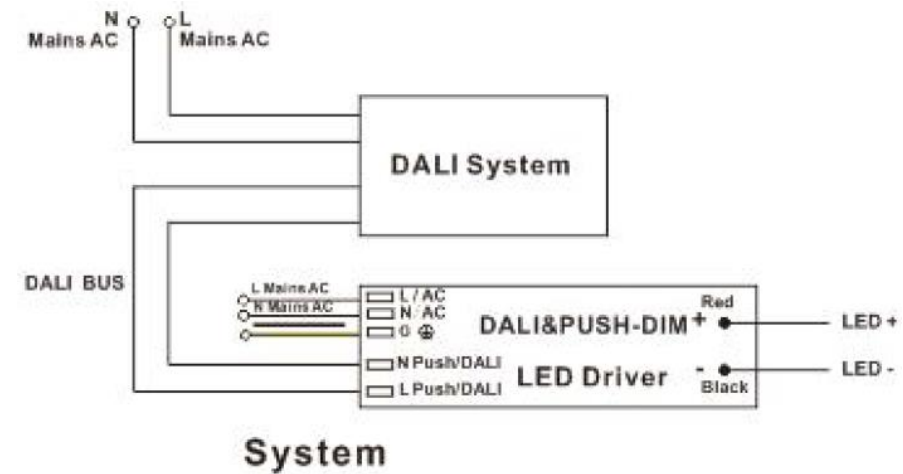
DALI Dimming Wiring Diagram 3:
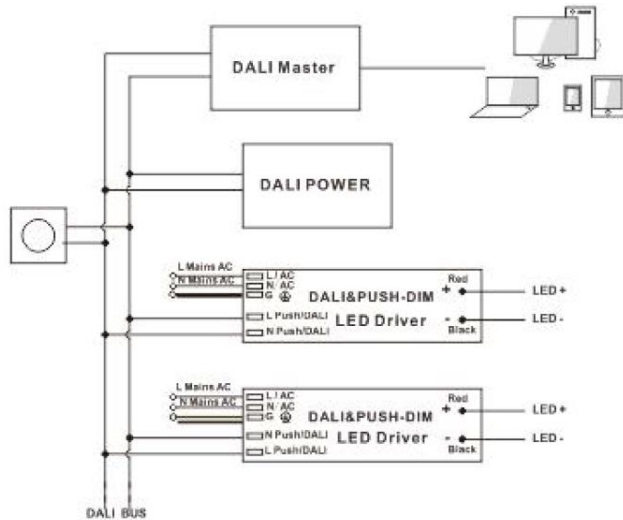
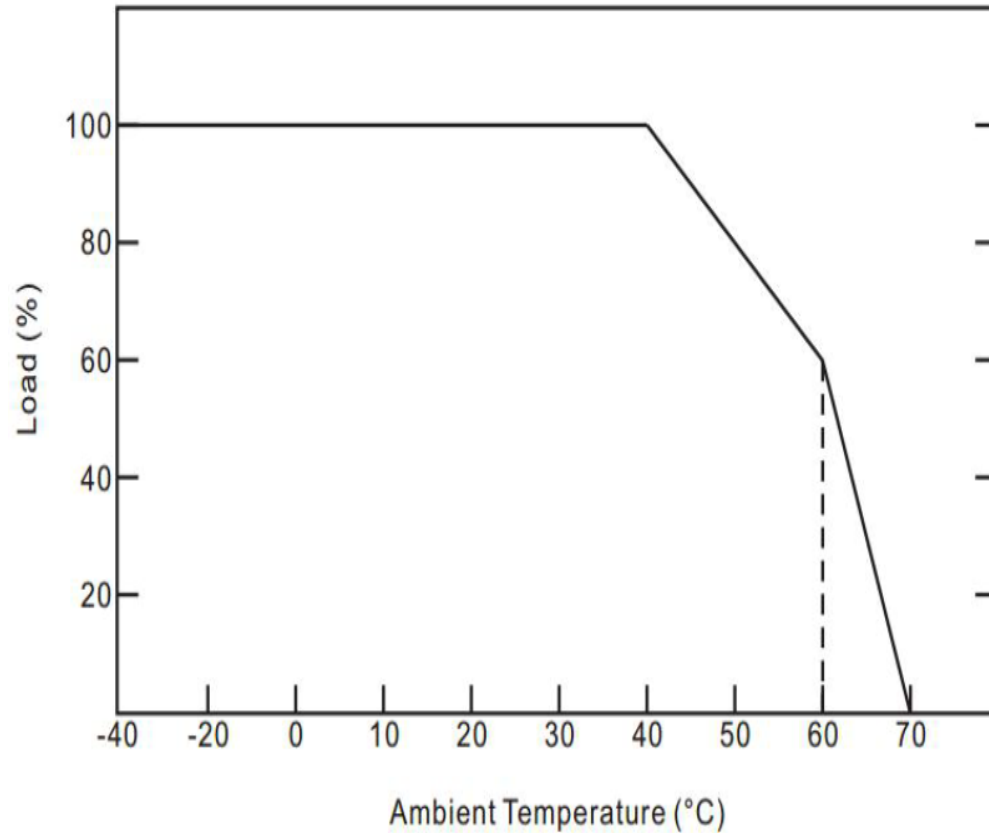

PC+DALI Master+DIMMER

Push-Dimming Wiring Diagram 1:

Dimmer (with ON/OFF function)
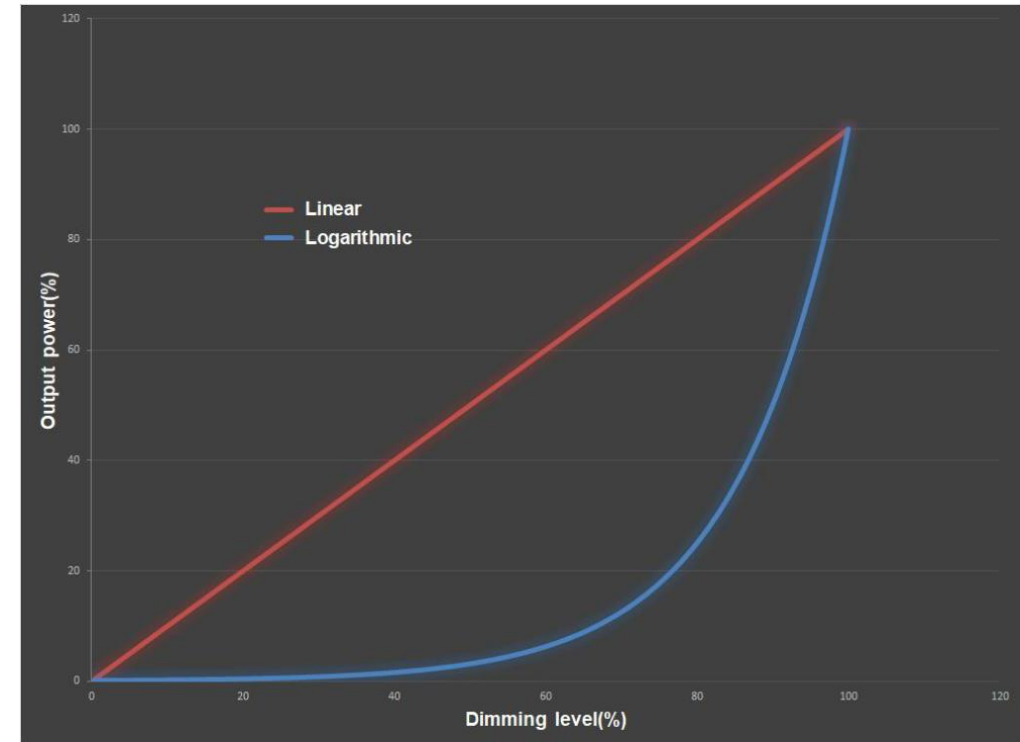
Push-Dimming Wiring Diagram 2:

Dimmer

Derating Curve:

Diming Curve:

Note: Dimming curve: Logarithmic (default) and Linear

Instructions:

✓ Ensure that the driver is installed by a qualified and professional technician for optimal performance and safety.

✓ Provide adequate ventilation around the driver during installation to facilitate proper heat dissipation.

✓ Verify all wiring connections before testing the system to prevent damage to the light and power supply.

✓ If the driver does not function properly, do not attempt private repairs. Contact us for support instead.

For any inquiries or assistance, please feel free to contact us.