# QZ-DALI-DT6

24V DC Power Supply - 96W



- DALI-2 certified DT6 control gear
- Class 2 LED driver with 96W, 24V output
- Powers Static White, Static Color and Warm-Dim LED products
- QTL NFC App available for iOS and Android platforms
- DALI address configurable from NFC
- Output voltage adjustable from NFC
- Output voltage adjustable from NFC
- Features Test Mode for easier commissioning

| 1 PRODUCT | 2 WATTAGE | 3 PRIMARY VOLTAGE | 4 SECONDARY VOLTAGE | 5 CONTROL | 6 CHANNEL | 7 COLOR |
|---|---|---|---|---|---|---|
| QZ | 96W | UNV | 24V | DALI-DT6 | 1CH | BK |

Sample Part Number: **QZ-96W-UNV-24V-DALI-DT6-1CH-BK**

**1 PRODUCT**

**QZ**

**2 WATTAGE**

**96W**

**3 PRIMARY VOLTAGE**

**UNV** Universal

**4 SECONDARY VOLTAGE**

**24V**

**5 CONTROL**

**DALI-DT6**

**6 CHANNEL**

**1CH** 1 Channel

**7 COLOR**

**BK** Black Powder Coat Finish

## COMPATIBLE LEDS

**STATIC WHITE**

| | |
|---|---|
| SW24/1.5-4.0<br>SW-DR24/1.5-4.0<br>SHLD-SW24/1.5-4.0<br>SW-SCOB24/1.5-4.0 | ✓ |
| SW24/5.0, SW-HE, SW-HE+<br>SW-DR24/5.0, SW-HE-DR<br>SHLD-SW24/5.0, SHLD-SW-HE<br>SW-SCOB24/5.0 | ✓ |
| SW-SD24/1.0-4.0 | ✓ |
| SW-SD24/6.0 | ✓ |
| SW-IA | |
| SW-XT | ✓ |

**OTHER**

| | |
|---|---|
| DW-HE Tunable Applications | |
| DW-HE Warm Dim Applications | |
| WD | ✓ |
| SC | ✓ |
| RGB | |
| RGBW, RGBW-HE | |

If using a DW LED, wattage must be doubled

**SHEETS**

| | |
|---|---|
| Q-SHEETS SW | ✓ |
| Q-SHEETS DW Tunable Applications | |
| Q-SHEETS DW Warm Dim Applications | |
| Q-SHEETS RGB | |
| Q-SHEETS RGBW | |

If using a DW LED, wattage must be doubled

**MICRO 5**

| | |
|---|---|
| MICRO 5 SW | ✓ |
| MICRO 5 DW Tunable Applications | |
| MICRO 5 DW Warm Dim Applications | |
| MICRO 5 RGB | |

If using a DW LED, wattage must be doubled

## PRODUCT INFORMATION

- Vertical or horizontal surface mount
- Constant voltage output
- DALI 2 DT6 control
- NFC App for addressing & voltage adjustment
- Adjustable output voltage - Range: 24V-26V
- DALI dimming down to 0.2%
- WET listed
- Suitable for dry, damp and wet locations
- Suitable for indoor & outdoor use
- Primary voltage - universal (100-277V)
- Wide operating temperature range: -40˚F to +140˚F
- UL, cUL listed
- Type HL rated
- Compliant to FCC 47 CFR Part 15 Subpart B
- 5 year warranty

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# QZ-DALI-DT6

24V DC Power Supply - 96W

## VOLTAGE DROP CHART

Wiring from power supply to light fixture must be single multiconductor cable

VOLTAGE DROP

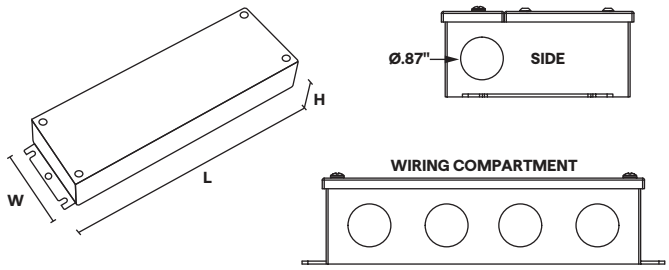
| Distance from PS for 1% Voltage Drop | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VDC | Load (W) | 10 AWG | 12 AWG | 14 AWG | 16 AWG | 18 AWG | 20 AWG | 22 AWG | 24 AWG | 26 AWG |
| 24 | 15 | 192 | 121 | 76 | 48 | 30 | 19 | 12 | 7 | 5 |
| 24 | 30 | 96 | 60 | 38 | 24 | 15 | 9 | 6 | 4 | 2 |
| 24 | 45 | 64 | 40 | 25 | 16 | 10 | 6 | 4 | 2 | 2 |
| 24 | 60 | 48 | 30 | 19 | 12 | 8 | 5 | 3 | 2 | 1 |
| 24 | 80 | 36 | 23 | 14 | 9 | 6 | 4 | 2 | 1 | 1 |
| 24 | 96 | 30 | 19 | 12 | 7 | 5 | 3 | 2 | 1 | 1 |

| Distance from PS for 3% Voltage Drop | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VDC | Load (W) | 10 AWG | 12 AWG | 14 AWG | 16 AWG | 18 AWG | 20 AWG | 22 AWG | 24 AWG | 26 AWG |
| 24 | 15 | 577 | 362 | 228 | 143 | 90 | 57 | 36 | 22 | 14 |
| 24 | 30 | 288 | 181 | 114 | 72 | 45 | 28 | 18 | 11 | 7 |
| 24 | 45 | 192 | 121 | 76 | 48 | 30 | 19 | 12 | 7 | 5 |
| 24 | 60 | 144 | 91 | 57 | 36 | 23 | 14 | 9 | 6 | 4 |
| 24 | 80 | 108 | 68 | 43 | 27 | 17 | 11 | 7 | 4 | 3 |
| 24 | 96 | 90 | 57 | 36 | 22 | 14 | 9 | 6 | 4 | 2 |

| Distance from PS for 5% Voltage Drop | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VDC | Load (W) | 10 AWG | 12 AWG | 14 AWG | 16 AWG | 18 AWG | 20 AWG | 22 AWG | 24 AWG | 26 AWG |
| 24 | 15 | 961 | 604 | 380 | 239 | 150 | 95 | 59 | 37 | 24 |
| 24 | 30 | 480 | 302 | 190 | 120 | 75 | 47 | 30 | 19 | 12 |
| 24 | 45 | 320 | 201 | 127 | 80 | 50 | 32 | 20 | 12 | 8 |
| 24 | 60 | 240 | 151 | 95 | 60 | 38 | 24 | 15 | 9 | 6 |
| 24 | 80 | 180 | 113 | 71 | 45 | 28 | 18 | 11 | 7 | 4 |
| 24 | 96 | 150 | 94 | 59 | 37 | 23 | 15 | 9 | 6 | 4 |

## 1 PRODUCT - DIMENSIONS

| Wattage | Length (in) | Width (in) | Height (in) |
|---|---|---|---|
| 96W | 9.5 | 4.9 | 1.6 |




## 2 TECHNICAL INFORMATION

| Channel | Wattage | Primary Voltage | Secondary Voltage | Secondary Current | Compatible Light Engine |
|---|---|---|---|---|---|
| CH1 | 96W | 100-277V | 24VDC | 1X4A | SW, SW-HE, SW-HE+, SC, WD |

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Specification subject to change. **Rev-08-24-26**

# QZ-DALI-DT6

24V DC Power Supply - 96W

## SPECIFICATIONS

| Input | |
|---|---|
| Input Voltage (Vrms) | 100-277V |
| Input Current, max (Arms) | 1.25A @ 100V |
| Inrush Current, max* (Apk) | 51.2A @ 277V |
| Input Frequency (Hz) | 50/60 |
| Input Power (W) | 118 |

| Output | |
|---|---|
| Output Voltage, nom (V) | 24 |
| Output Current (A) | 4 |
| Output Power (Wmax) | 96 |

| Environmental | Min | Nom | Max |
|---|---|---|---|
| THD (%) | - | - | 15 |
| PF (%) | 0.95 | - | - |
| Working Temp (°F) | - | - | 140 |

*-200us event

## PROTECTIONS

- Short Circuit Protection (SCP)
- Over Loading Protection (OLP)
- Over Temperature Protecton (OTP)
- I/P-O/P:1.88KVAC
- I/P-O/P:100MΩ/500VDC/77°F/70%RH

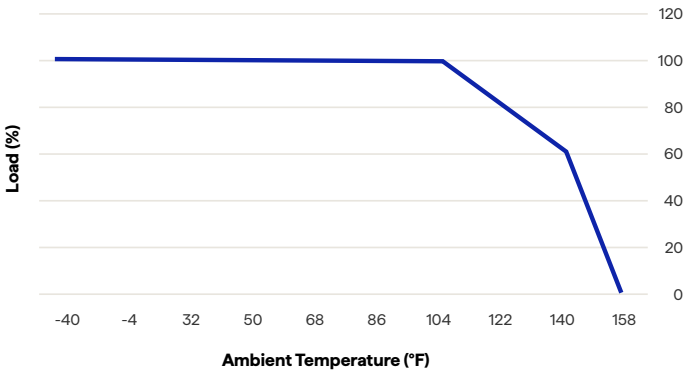
## COMPLIANCE/SAFETY

- EMI/RFI
  - FCC 47 CFR Part 15 Subpart B
- Certified
  - UL8750

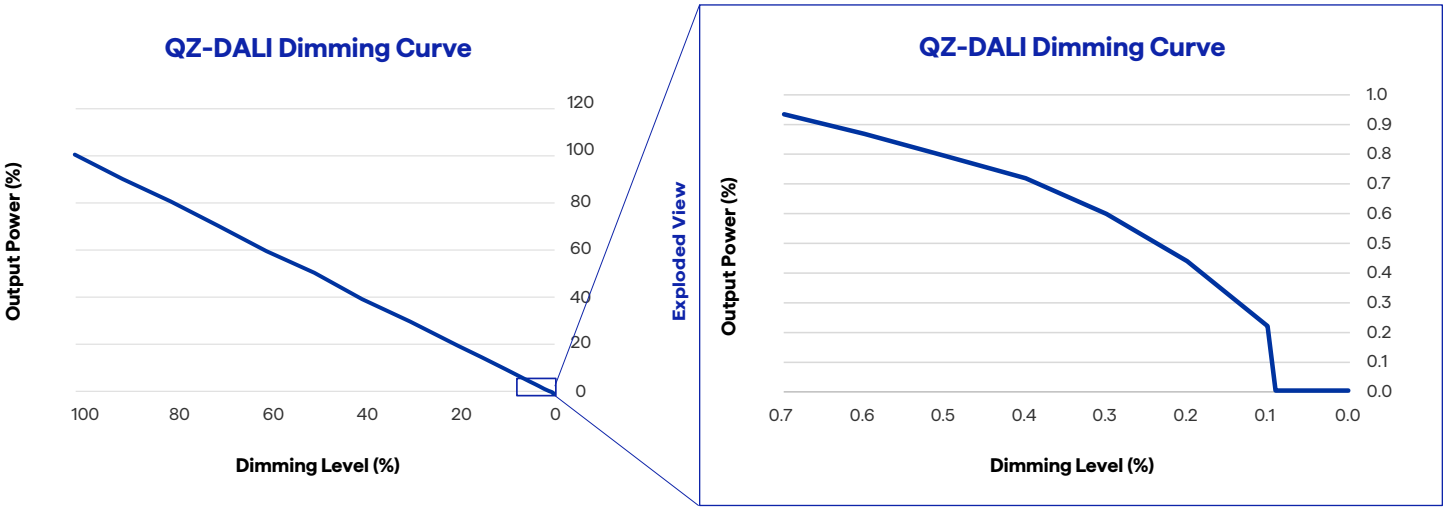
## 7 COLOR

Black Powder Coat Finish

### Derating Curve




### QZ-DALI Dimming Curve



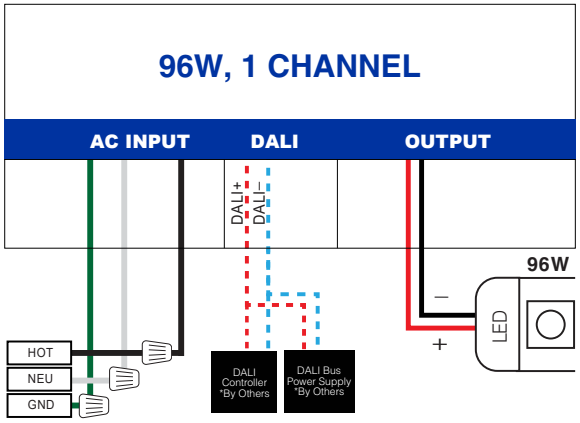

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# QZ-DALI-DT6

24V DC Power Supply - 96W

## WIRING DIAGRAM



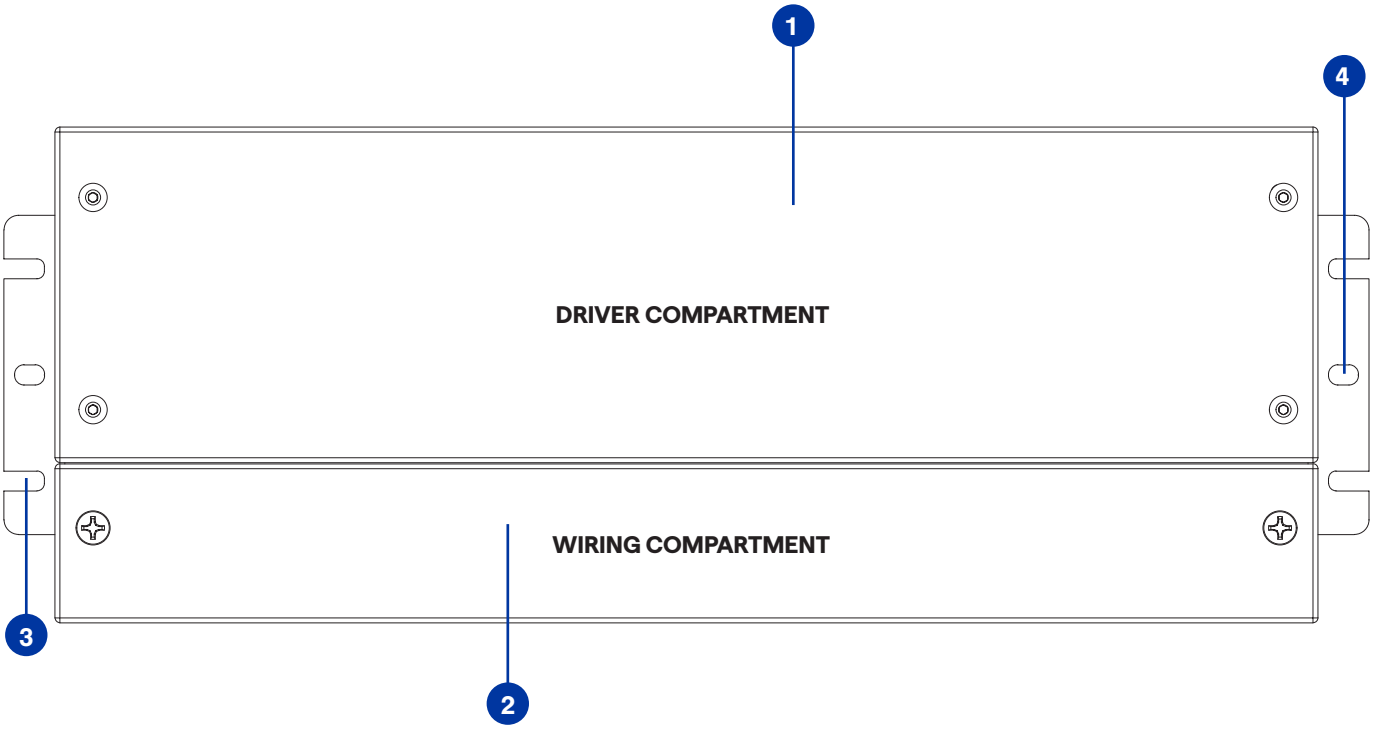

- Default DALI address for the driver is #1 and default output voltage is 24V.
- Wiring from power supply to light fixture must be single multiconductor cable.

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# QZ-DALI

Installation Instructions

**TOP VIEW**




## QZ Components

1 Driver Compartment
2 Wiring Compartment
3 Mounting Tab Slots
4 Mounting Tab Holes

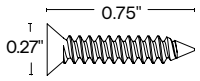
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Specification subject to change. Rev-03-08-24

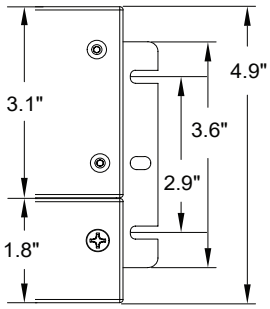
# QZ-DALI

Installation Instructions

## Required Hardware

| | |
|---|---|
| #6 Flat head screw |   |

## Mounting Foot:

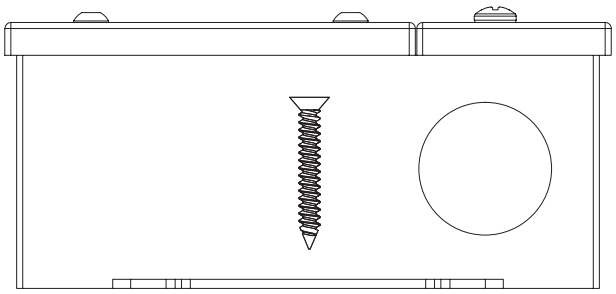



96W

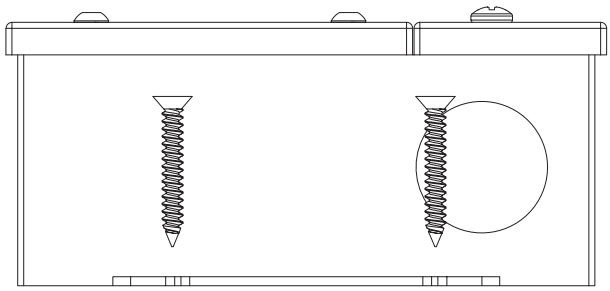
## Mounting

1 The QZ-DALI can be mounted either vertically or horizontally, utilizing the supplied screws and the mounting tabs on the bottom of the enclosure

**CENTER HOLE**

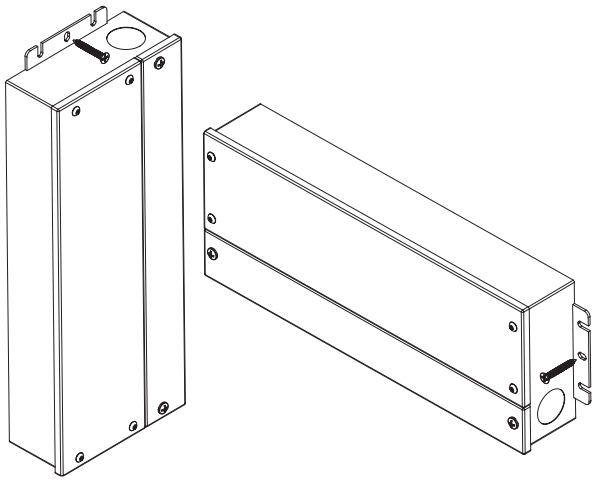


**SIDE SLOTS**

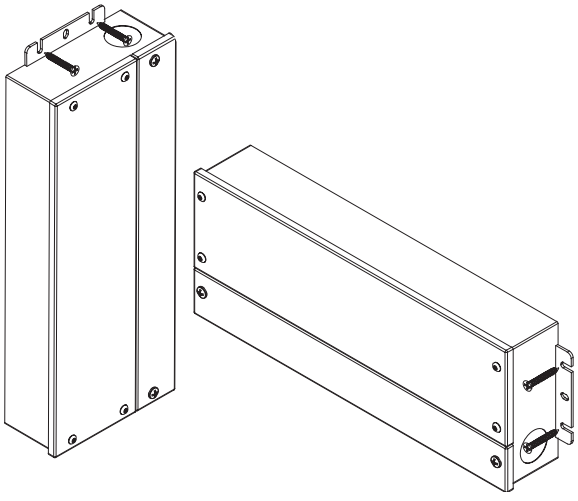


2 The QZ-DALI must be mounted into a stud for sufficient support, using either the center holes or the slots of each mounting tab

**CENTER HOLE**



**SIDE SLOTS**



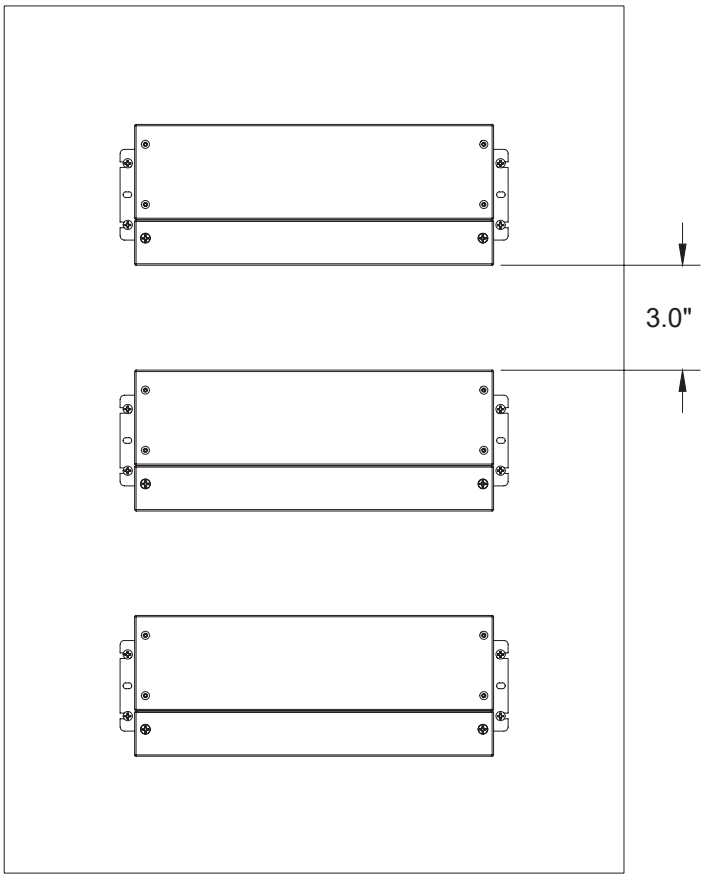
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Specification subject to change. Rev-03-08-24

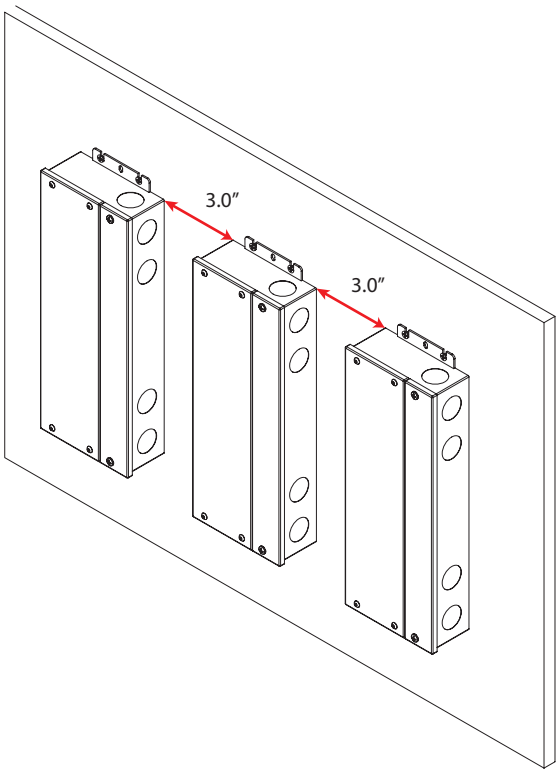
# QZ-DALI

Installation Instructions

**3** When installing multiple QZ-DALI power supplies, seperate the enclosures by 3" of space from edge to edge. This prevents the rise of ambient temperature between the power supplies.




**Horizontal mount illustrated above**



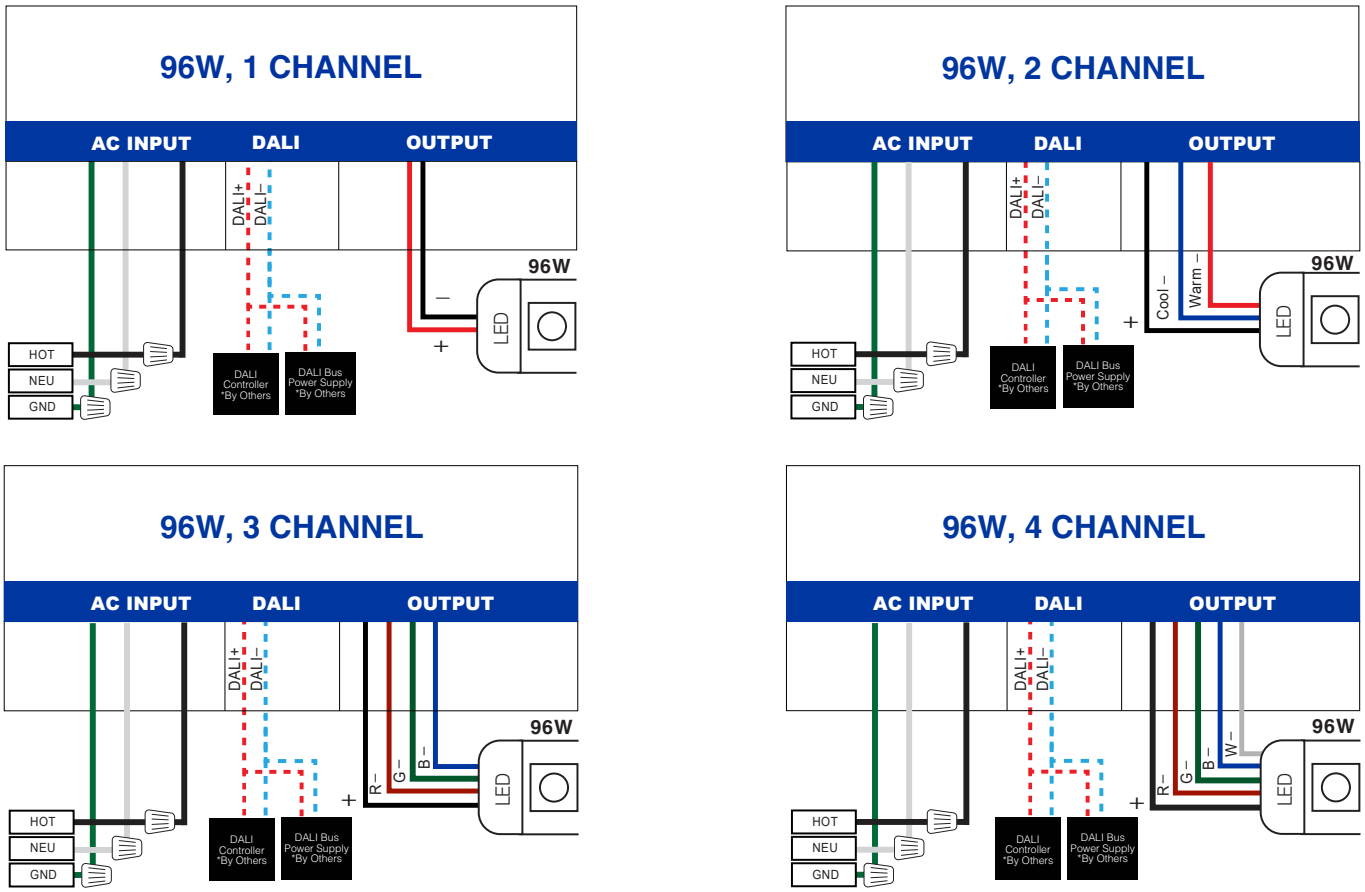

**Vertical mount illustrated above**

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# QZ-DALI

Installation Instructions

## 4 Wiring diagram




**Wiring from power supply to light fixture must be single multiconductor cable**

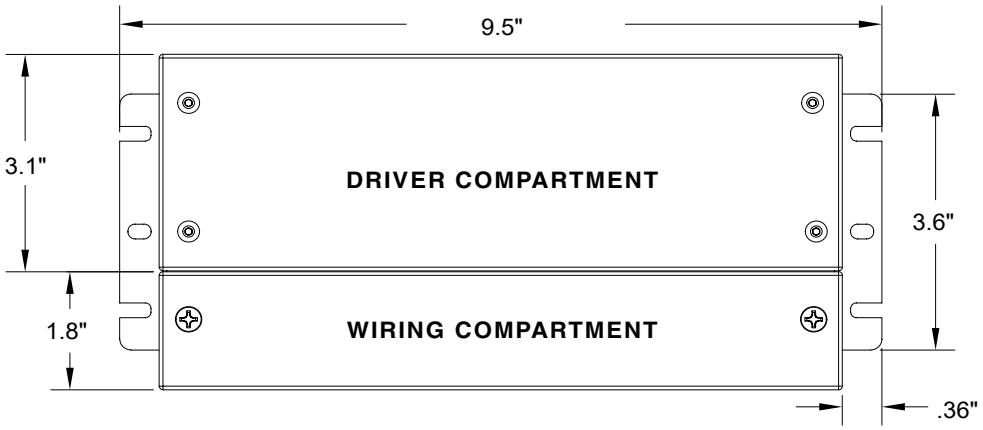
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# QZ-DALI

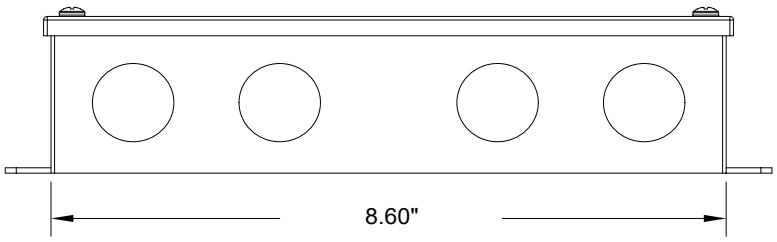
Installation Instructions

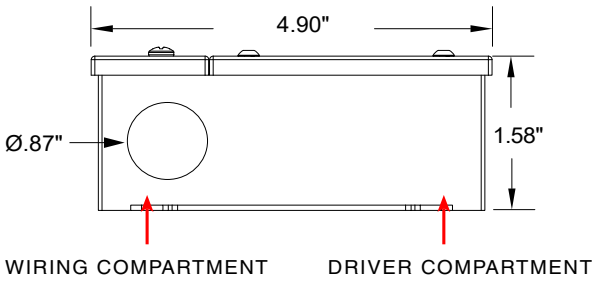
## QZ-DALI 96W

**TOP VIEW**




**WIRING COMPARTMENT VIEW**



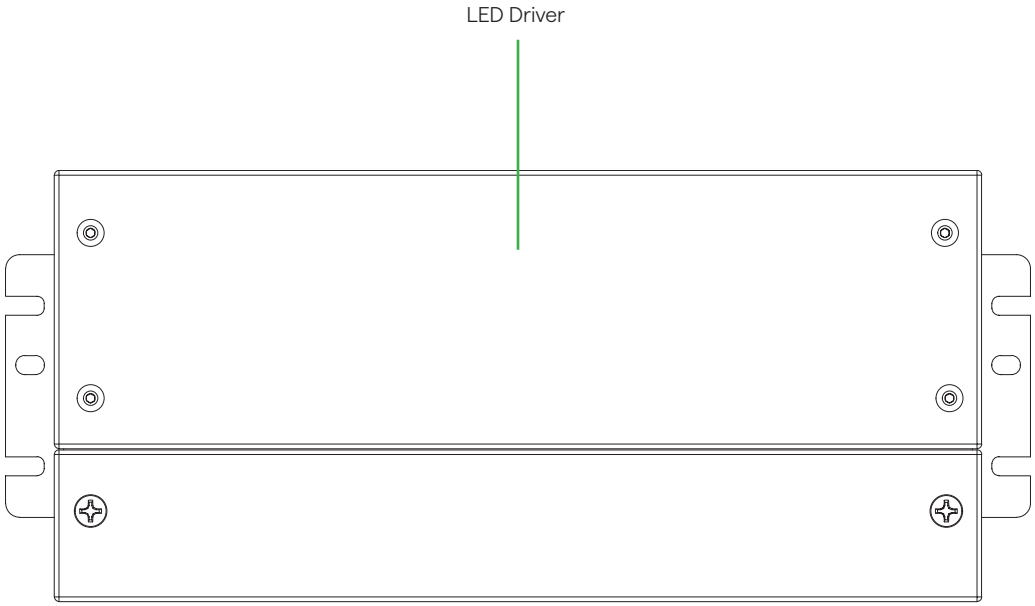

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# MATERIAL RECYCLING

QZ FAMILY

You may be done with your products, but chances are they still have more to give. Follow these instructions to break down and sort recyclable components. Check with local recycling collection to ensure they accept the materials listed below.

Additionally, Q-Tran offers a Takeback Program. Contact factory for information.




QZ-96W shown

E

LED Drivers

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