# QZ-BOWTIE+DIMMER

24V DC Power Supply - 96W



- Versatile Class 2 LED driver controlled with phase (forward or reverse) dimming down to 0.1%
- Pulse Width Modulation (PWM) output provides smooth flicker-free dimming
- 24VDC constant voltage output
- Approved for indoor use only

| 1 PRODUCT | 2 WATTAGE | 3 PRIMARY VOLTAGE | 4 SECONDARY VOLTAGE | 5 TYPE | 6 DIM | 7 COLOR | 8 OUTPUT OPTIONS |
|---|---|---|---|---|---|---|---|
| QZ-BOWTIE | 96W | 120V | 24VDC | QD1 | | ST | |

Sample Part Number: **QZ-BOWTIE-96W-120V-24VDC-QD1-CP-ST-N/A**

### 1 PRODUCT

**QZ-BOWTIE**

### 2 WATTAGE

**96W**

With cord and plug, UL Listed only up to 65W

### 3 PRIMARY VOLTAGE

**120V** 120V, 60Hz

### 4 SECONDARY VOLTAGE

**24VDC**

### 5 TYPE

**QD1**

### 6 DIM

| | |
|---|---|
| **ND** | No Dimmer (For field installed dimmer) |
| **CP** | Caseta Pro (PD-10NXD) |
| **MS** | Maestro (MACL-153M) |
| **MSV** | Maestro Vive Enabled (MRF2S-6ELV120 |

### 7 COLOR

| | |
|---|---|
| **ST** | Satin |

### 8 OPTIONS

| | |
|---|---|
| **N/A-BRL** | Barrel |
| **N/A-CON6** | Connector 6" |
| **N/A-CON24** | Connector 24" |
| **N/A -N/A** | N/A |
| **C&P-BRL** | Cord & Plug \| Barrel |
| **C&P-CON6** | Cord & Plug \| Connector 6" |
| **C&P-CON24** | Cord & Plug \| Connector 24" |
| **C&P-N/A** | Cord & Plug \| N/A |

With cord and plug, UL Listed only up to 65W

## 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 | |

**SHEETS**

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

**MICRO 5**

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

## PRODUCT INFORMATION

- Integral wiring compartments for reduced installation costs
- Vertical or horizontal surface mount
- Constant voltage output
  - Phase dimming: works with forward phase / leading edge, MLV and Reverse phase / trailing edge, ELV, TRIAC dimmers
  - Dimming range: 0.1% - 100%
  - Flicker-free dimming
  - PWM (high frequency) output reduces visible flicker
- IP20 Rated
- Follows recommended practices of IEEE standard P1789 to mitigate flicker-induced health risks
- Suitable for dry, damp locations
- Suitable for indoor use
- Primary voltage - universal (100-277V)
- Wide operating temperature range: -40˚F to +140˚F
- UL, cUL listed
- Type HL rated
- Compliant to FCC Part 15B
- 5 year warranty
- 8x 0.875" knockouts, 4x each junction box

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## VOLTAGE DROP CHART

This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved

Wiring from power supply to light fixture must be two conductor cable.

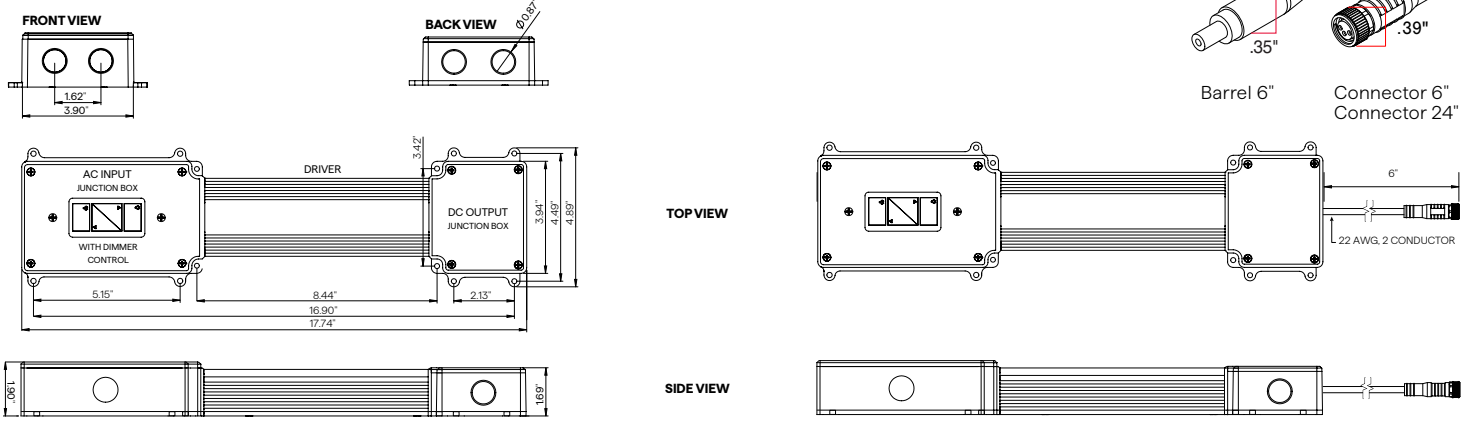
VOLTAGE DROP

| 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




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

# QZ-BOWTIE+DIMMER

24V DC Power Supply - 96W

## 2 TECHNICAL INFORMATION

**NOTE:** The LED drivers provide a constant voltage output for operating LED systems requiring 24VDC

| MODEL # | CHANNEL OUTPUT | OUTPUT | | | | | MAX OUTPUT POWER PER CHANNEL (W) | RATED OUTPUT POWER |
|---|---|---|---|---|---|---|---|---|
| 100-277VAC INPUT | | VOUT (VDC) | Loading Current (w/dimmer) per channel (A) | | Loading Current (w/out) per channel (A) | | | |
| | | | MIN | MAX | MIN | MAX | | MAX |
| QZ-BOWTIE | 1 | 24 | 0.42 | 4.0 | 0.40 | 4.0 | 96 | 96 |

## SPECIFICATIONS

| Input | |
|---|---|
| Input Voltage (Vrms) | 100-277V |
| Input Current, max (Arms) | 1.3A @ 100V |
| Inrush Current, max* (Apk) | 43A@277V |
| Input Frequency (Hz) | 50/60 |
| Input Power (W) | 130 |

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

| Environmental | Min | Nom | Max |
|---|---|---|---|
| THD (%) | - | - | 20 |
| PF (%) | 0.94 | - | - |
| Working Temp (°F) | - | - | 140 |
| IP Rating | 20 | - | - |

*-200us event

## PROTECTIONS

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

## COMPLIANCE/SAFETY

- EMI/RFI
  - FCC part 15 Class B
- Safety
  - UL 8750
- IP Rating - IP20

## 7 COLOR

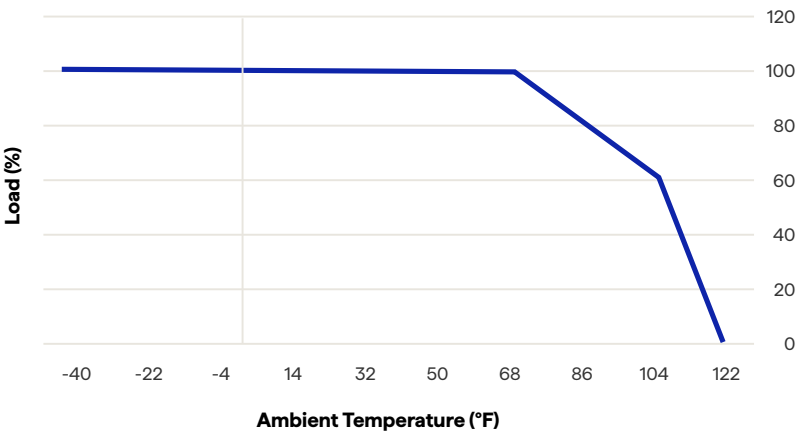
**HOUSING**

Satin

**END CAP**

White

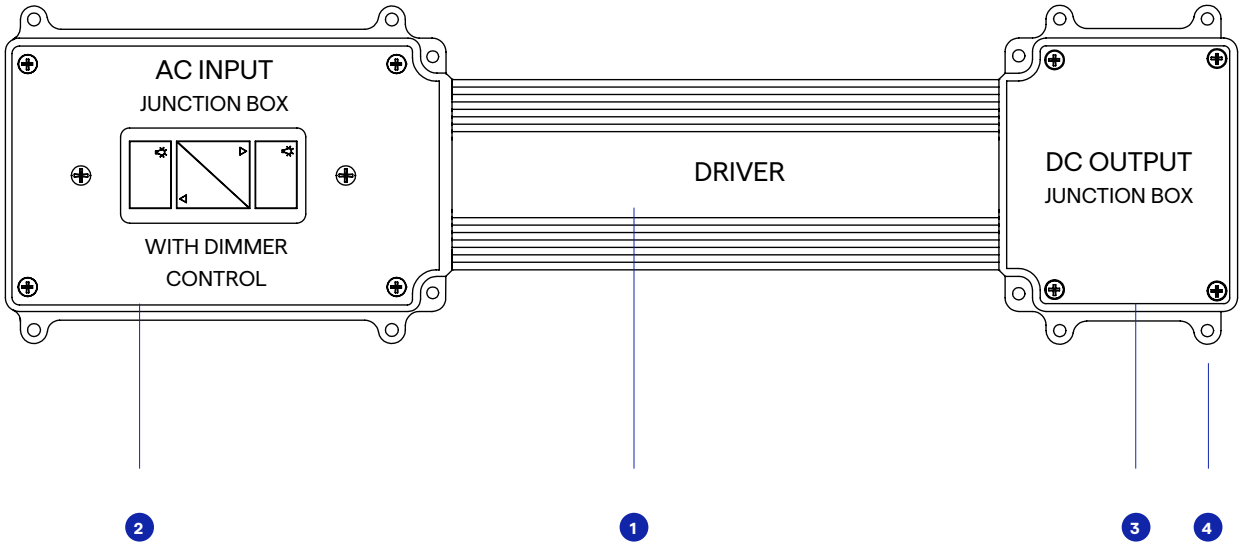
### Derating Curve




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# QZ-BOWTIE+DIMMER

LED Power Supply Installation Instructions



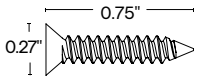

**QZ-BOWTIE+DIMMER Components**

| | | | |
|---|---|---|---|
| 1 Driver Compartment | 2 AC INPUT Junction box with dimmer control | 3 DC OUTPUT Junction box | 4 Mounting Tab Holes |

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# QZ-BOWTIE+DIMMER
LED Power Supply Installation Instructions

## REQUIRED HARDWARE

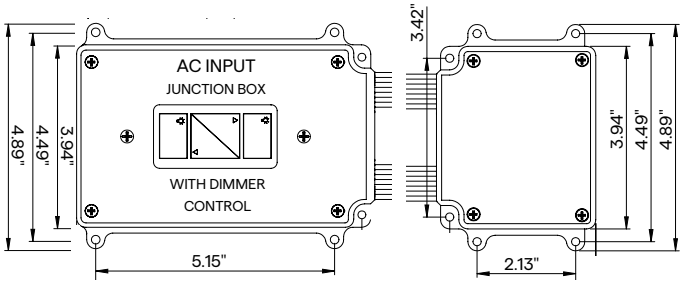
| | |
|---|---|
| #6 Flat head screw |  |



## MOUNTING FOOT: 96W

**AC INPUT:** DIMMER CONTROL SIDE

DC OUTPUT SIDE

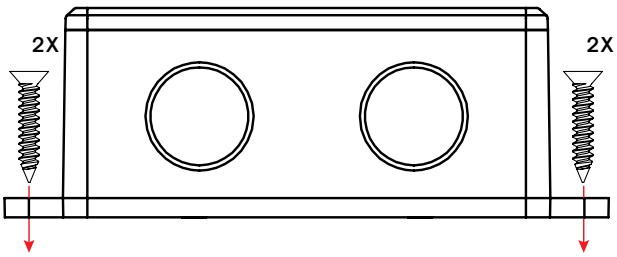




## MOUNTING

1. The QZ-BOWTIE+DIMMER can be mounted either vertically or horizontally, utilizing the supplied screws and the mounting tabs on the side of the enclosure

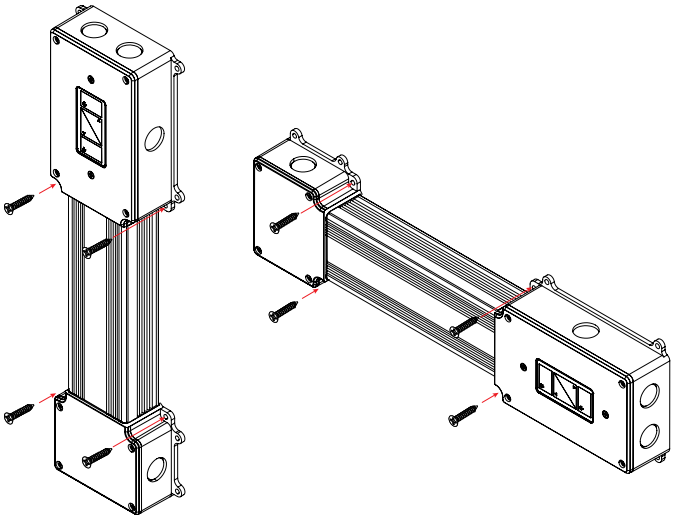
SIDE SLOTS





2. The QZ-BOWTIE+DIMMER must be mounted into a stud for sufficient support, using the holes of each mounting tab

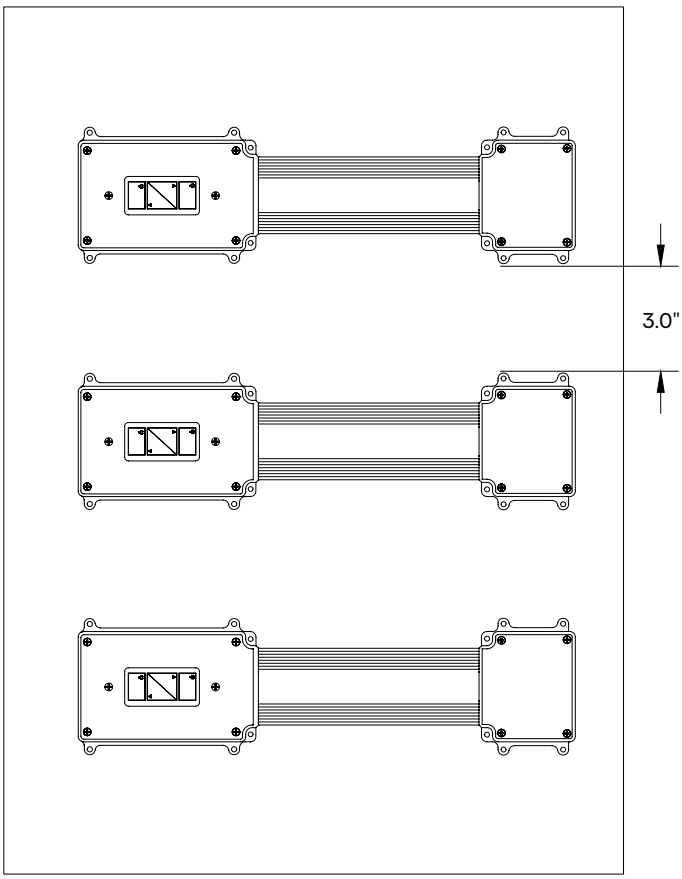
SIDE SLOTS



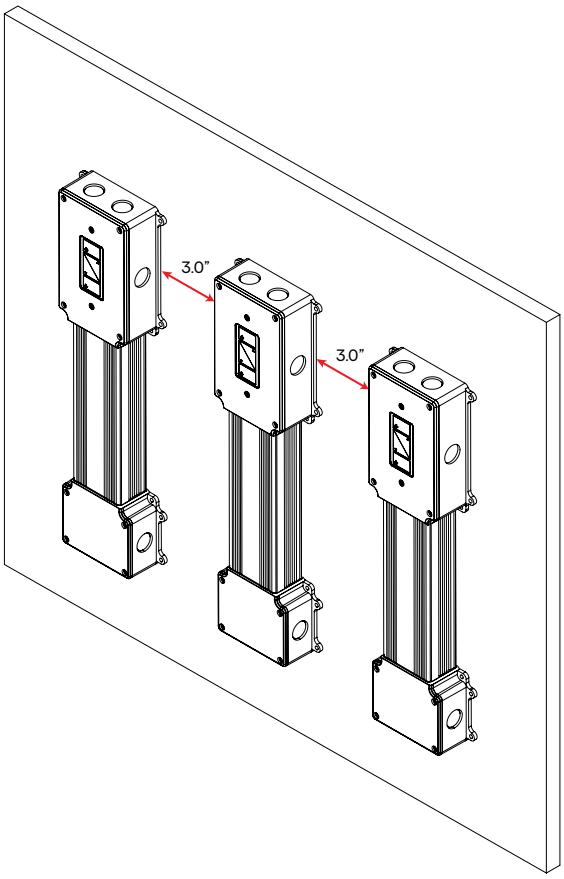
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# QZ-BOWTIE+DIMMER
LED Power Supply Installation Instructions

3 When installing multiple QZ-BOWTIE+DIMMER 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

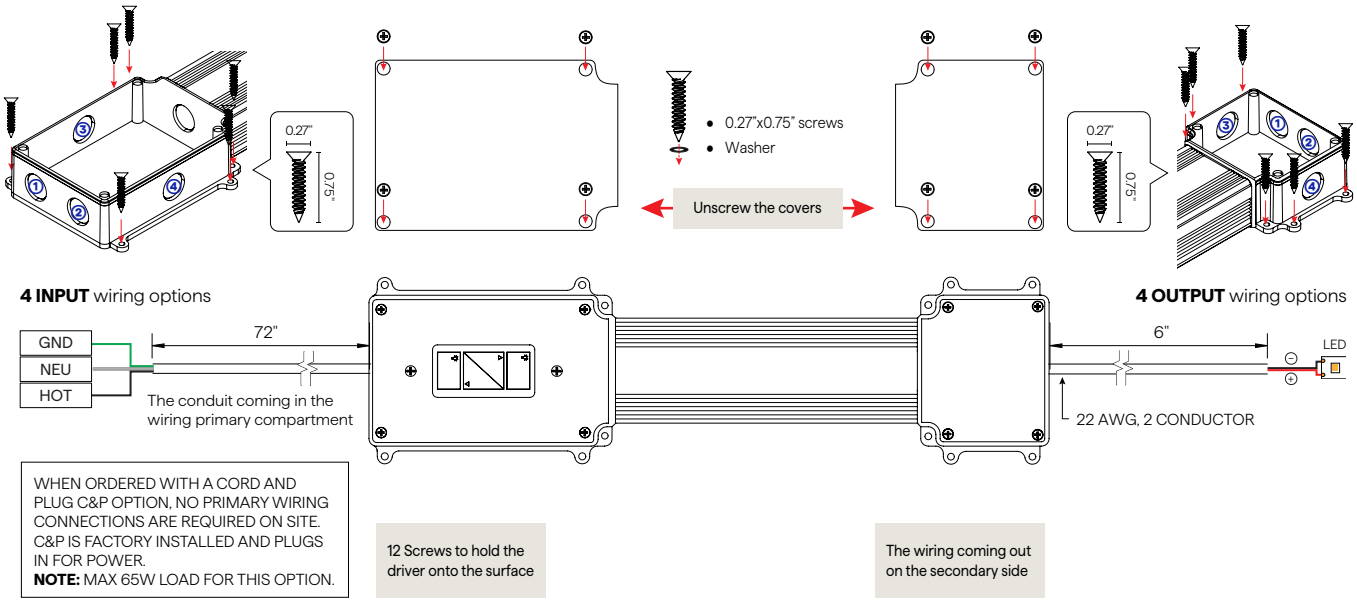



Vertical mount illustrated above

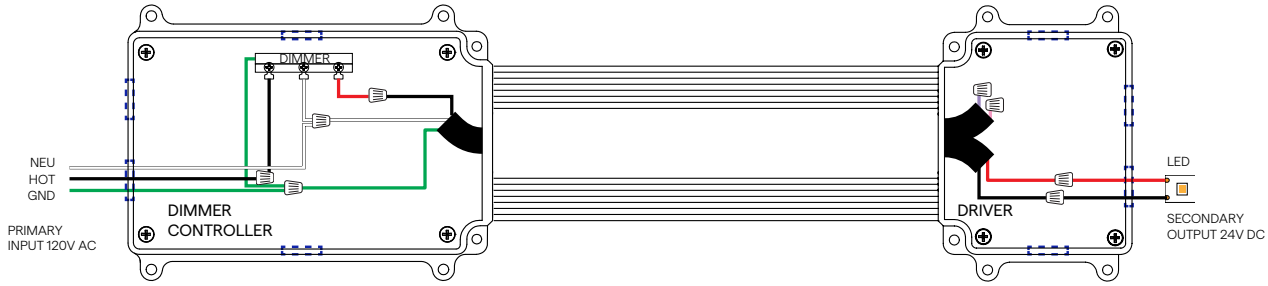
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# QZ-BOWTIE+DIMMER
LED Power Supply Installation Instructions

## 4 Wiring diagram



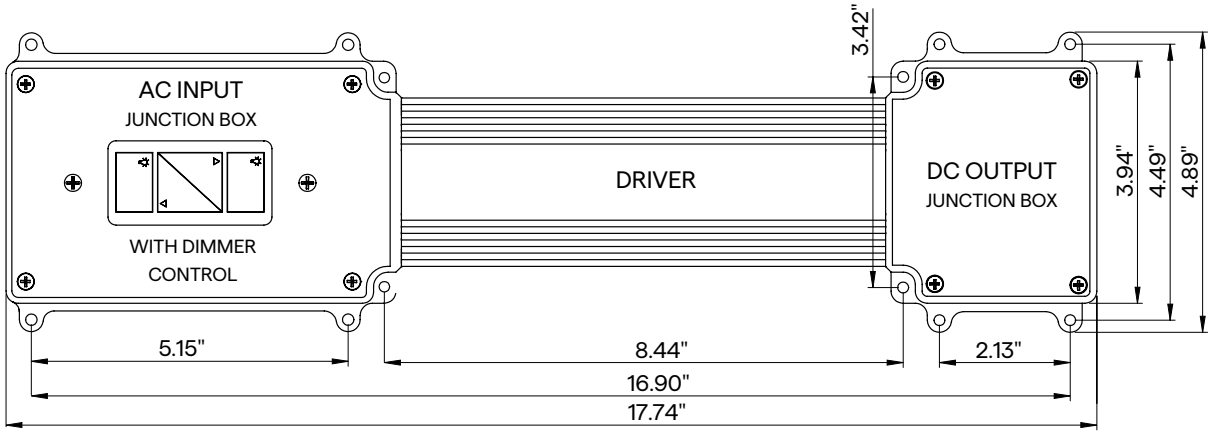

Wiring from power supply to light fixture must be two conductor cable




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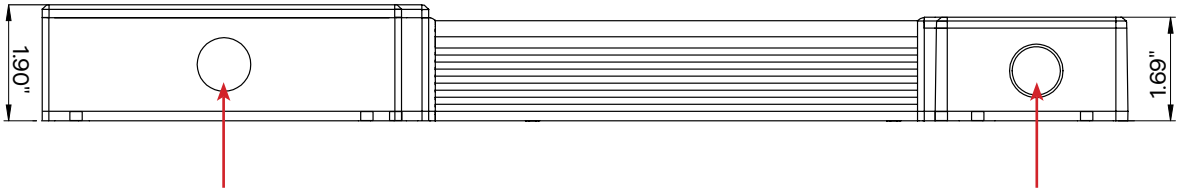
## QZ-BOWTIE+DIMMER 96W

TOP VIEW




WIRING COMPARTMENT VIEW

SIDE VIEW



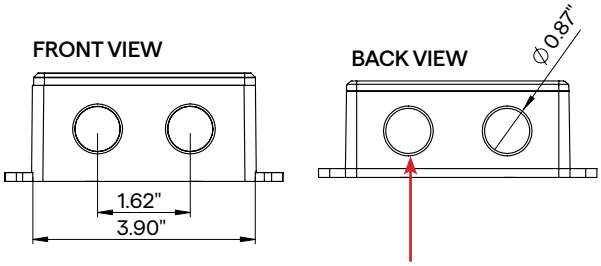

SIDE VIEW

WIRING COMPARTMENT

WIRING COMPARTMENT

FRONT VIEW

BACK VIEW




WIRING COMPARTMENT

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