



QZ-DALI-DT8

24V DC Power Supply - 96W

5 YEAR
WARRANTY

UL
LISTED

RoHS
COMPLIANT

FCC Declare.



- Class 2 LED power supply with DALI DT8 control capabilities
- Features up to 4 channel outputs that can power tunable white and dynamic color LED products
- Programmable with the QTL NFC App for reading and writing DALI Addresses and adjusting output voltage. Also programmable with DALI-2 controller.

1	2	3	4	5	6	7
PRODUCT	WATTAGE	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CONTROL	CHANNEL	COLOR
QZ	96W	UNV	24V	DALI-DT8		BK

Sample Part Number: **QZ-96W-UNV-24V-DALI-DT8-2CH-BK**

1

PRODUCT

QZ

2

WATTAGE

96W

3

PRIMARY VOLTAGE

UNV Universal

4

SECONDARY VOLTAGE

24V

5

CONTROL

DALI-DT8

6

CHANNEL

2CH2 Channel

3CH3 Channel

4CH4 Channel

7

COLOR

BK

Black Powder Coat Finish

COMPATIBLE LEDS

STATIC WHITE

SW24/1.5-4.0	
SW24/5.0, SW-HE, SW-HE+	
SD-SW24/1.0-4.0	
SD-SW24/6.0	
SW-1A	
SW-XT	

OTHER

DW-HE Tunable Applications	✓	2CH
DW-HE Warm Dim Applications	✓	2CH
WD		
SC		
RGB	✓	3CH
RGBW, RGBW-HE	✓	4CH

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 DT8 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



QZ-DALI-DT8

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VOLTAGE DROP CHART

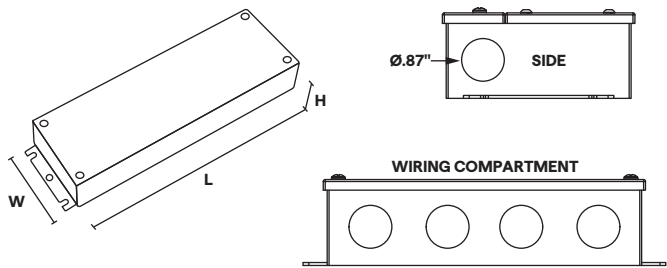
Wiring from power supply to light fixture must be single multiconductor cable

VDC	Load Wattage (W)	Distance from PS for 5% Voltage Drop								
		10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	913	574	361	227	143	90	57	36	22
	30	457	287	181	114	71	45	28	18	11
	60	228	144	90	57	36	23	14	9	6
	80	171	108	68	43	27	17	11	7	4
	96	143	90	56	36	22	14	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
CH2	96W	100-277V	24VDC	2X2A	DW-HE
CH3	96W	100-277V	24VDC	3X1.33 A	RGB
CH4	96W	100-277V	24VDC	4X1A	RGBW, RGBW-HE



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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	TW	RGB	RGBW
Output Voltage, nom (V)	24	24	24
Output Current per channel (A)	2	1.33	1
Total Output Power (Wmax)	96	96	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 Protection (OTP)
- I/P-O/P:1.88KVAC
- I/P-O/P:100MΩ/500VDC/77°F/70%RH

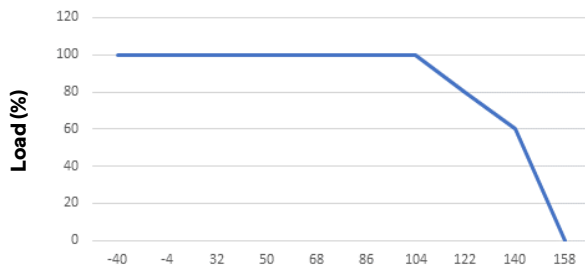
7 COLOR



COMPLIANCE/SAFETY

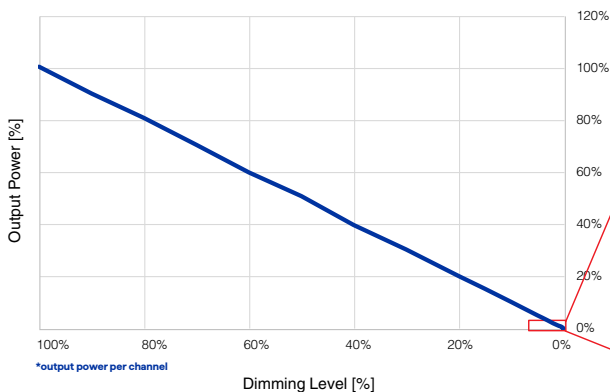
- EMI/RFI
 - FCC 47 CFR Part 15 Subpart B
- Certified
 - UL8750

Derating Curve



Ambient Temperature (°F)

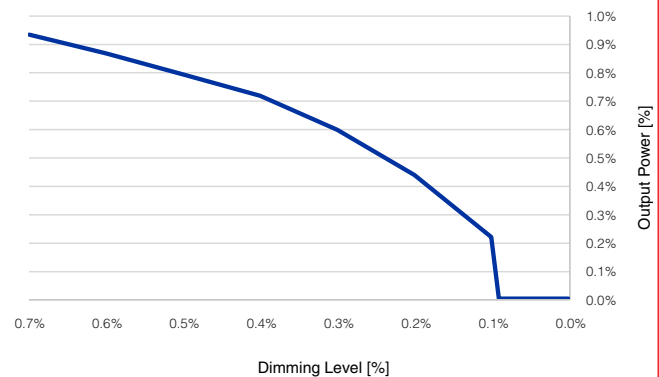
QZ-DALI Dimming Curve



*output power per channel

QZ-DALI Dimming Curve

Exploded View

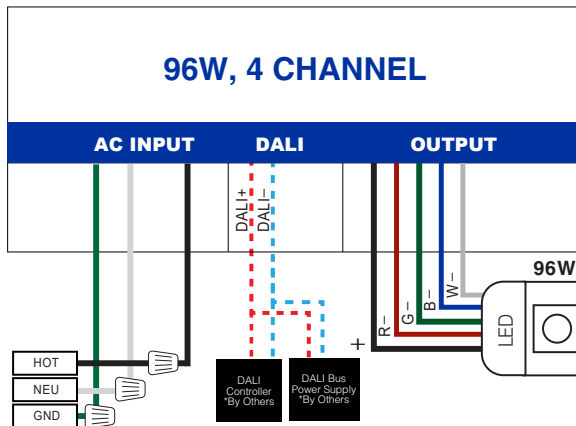
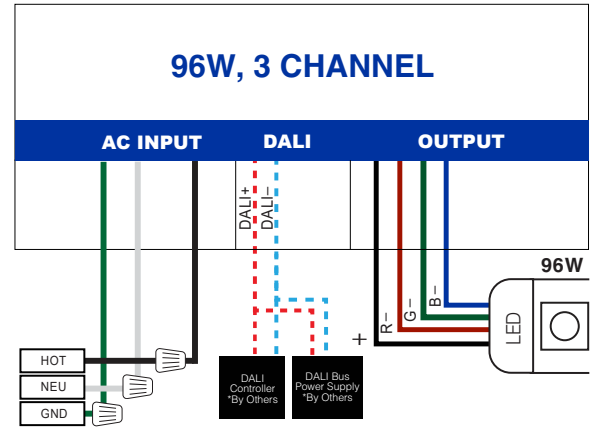
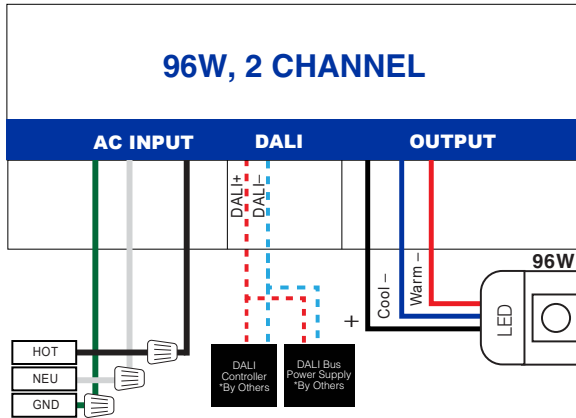




QZ-DALI-DT8

24V DC Power Supply - 96W

WIRING DIAGRAM



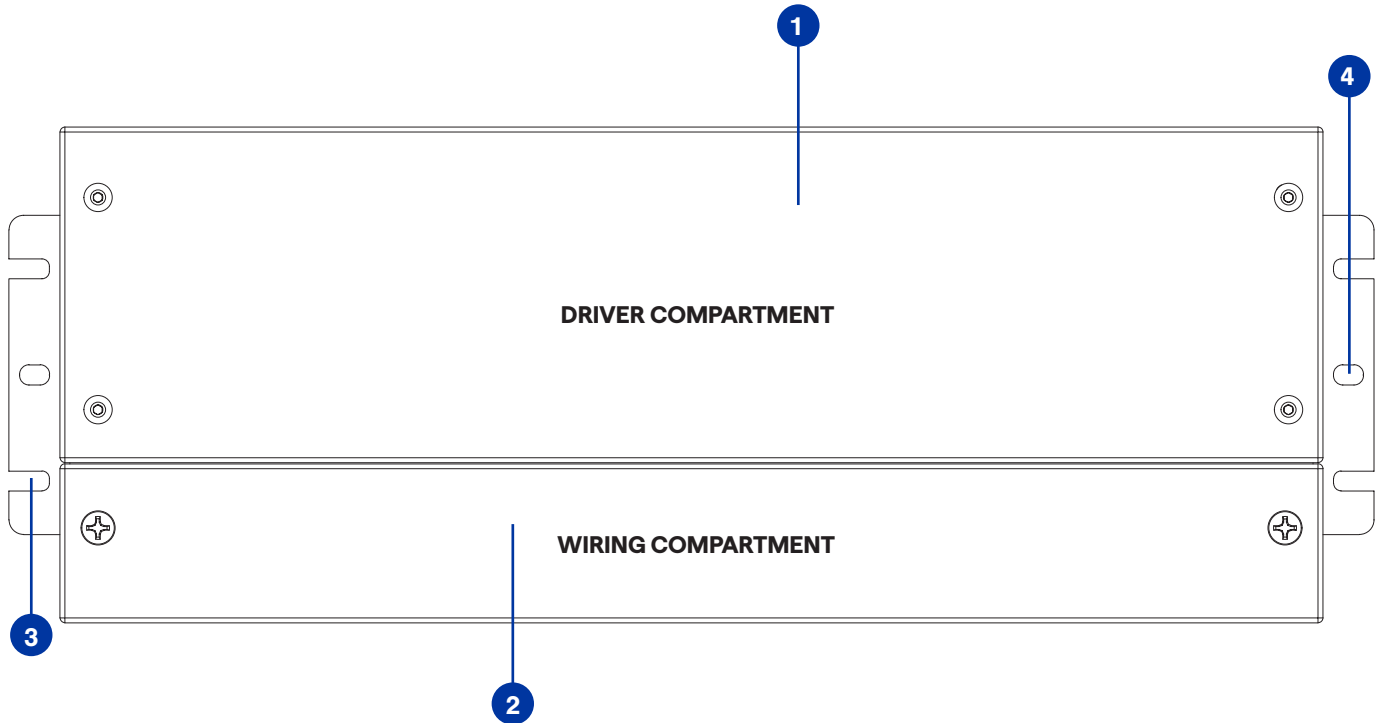
- Default DALI address for the driver is #1 and default output voltage is 24V.
- Wiring from power supply to light fixture must be single multiconductor cable.



QZ-DALI

Installation Instructions

TOP VIEW



QZ Components

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

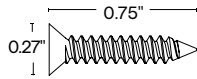


QZ-DALI

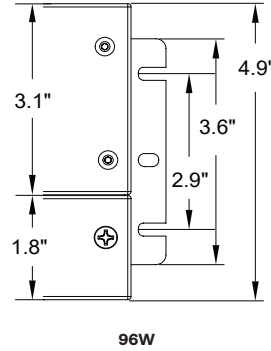
Installation Instructions

Required Hardware

#6 Flat head screw



Mounting Foot:

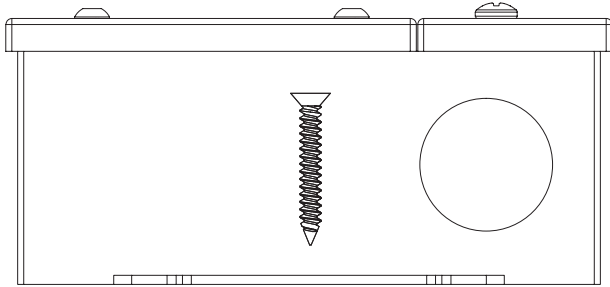


Mounting

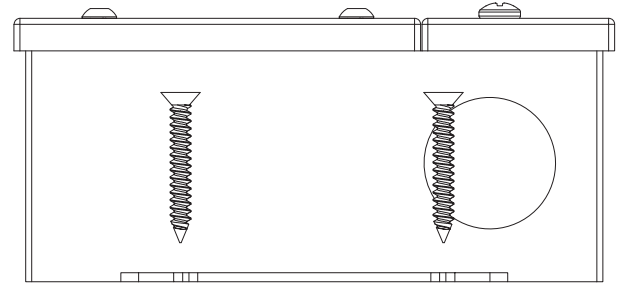
1

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



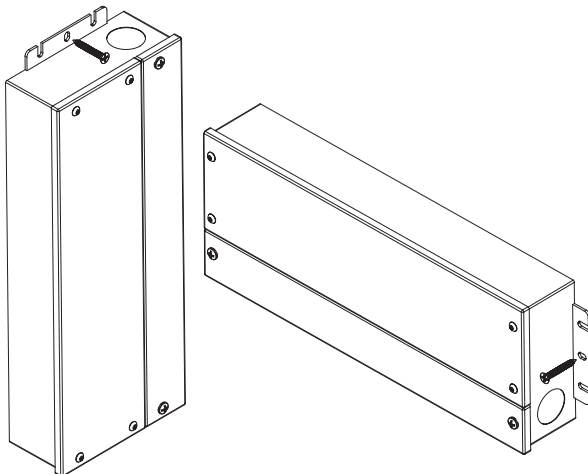
SIDE SLOTS



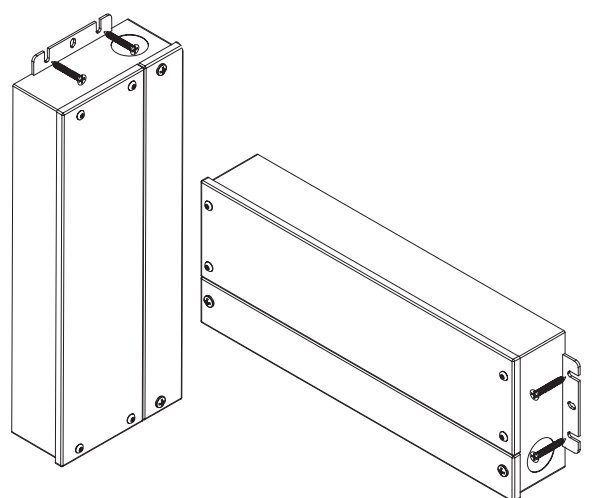
2

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



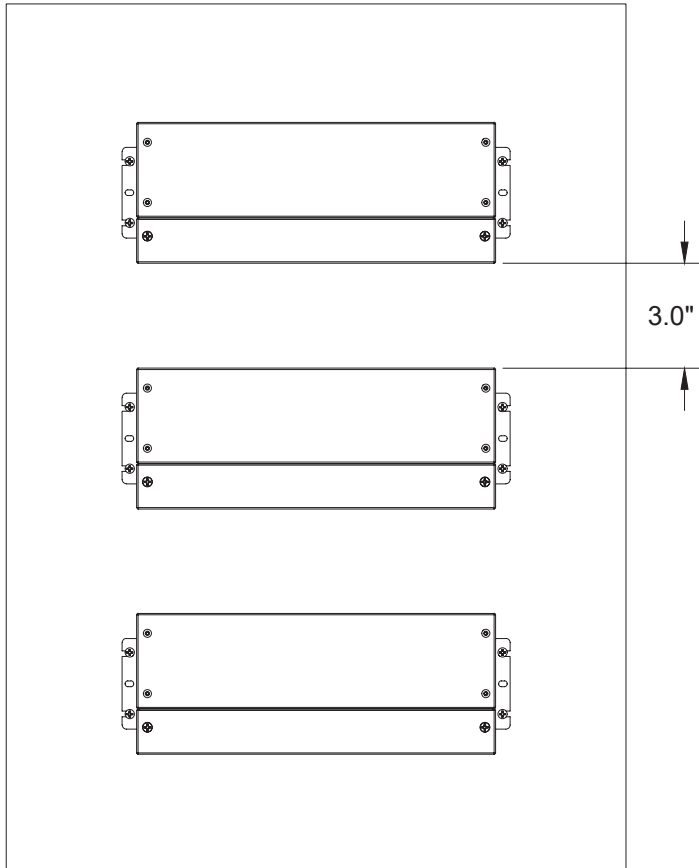


QZ-DALI

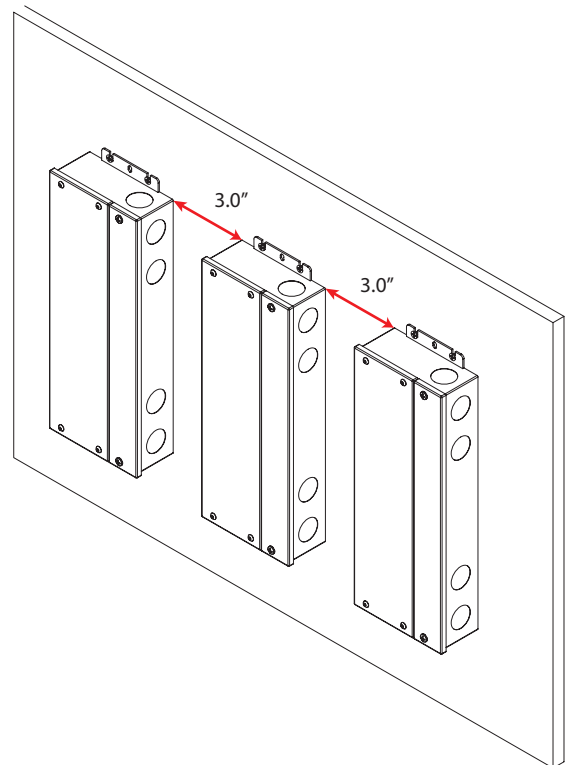
Installation Instructions

3

When installing multiple QZ-DALI power supplies, separate 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

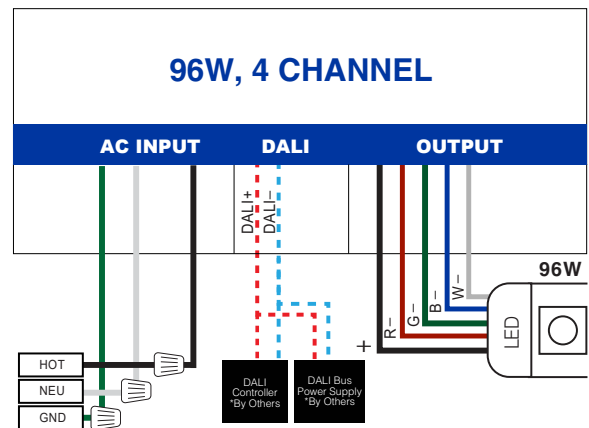
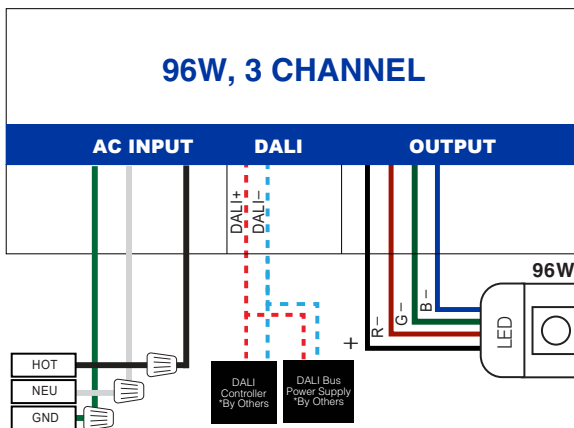
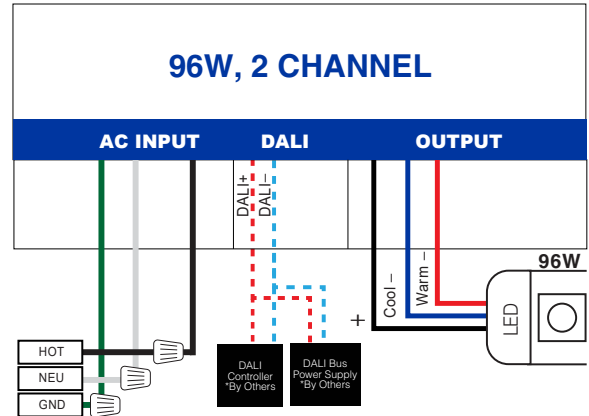
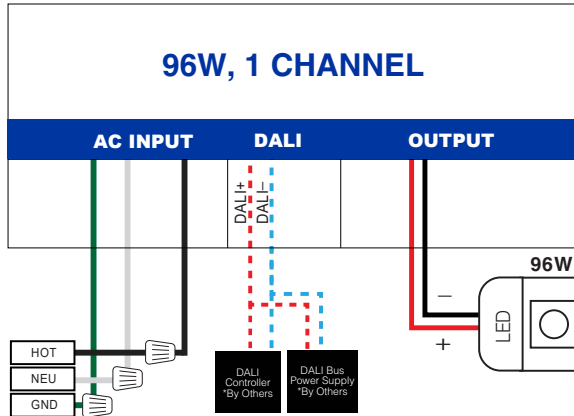


QZ-DALI

Installation Instructions

4

Wiring diagram



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

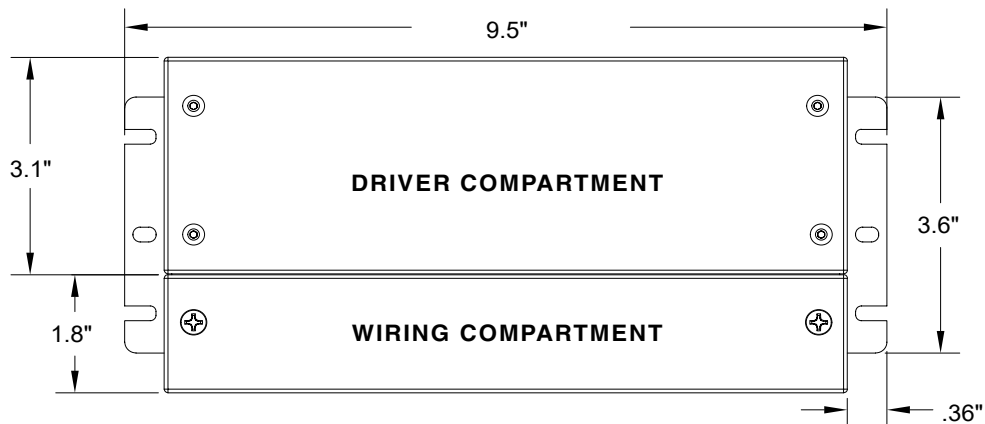


QZ-DALI

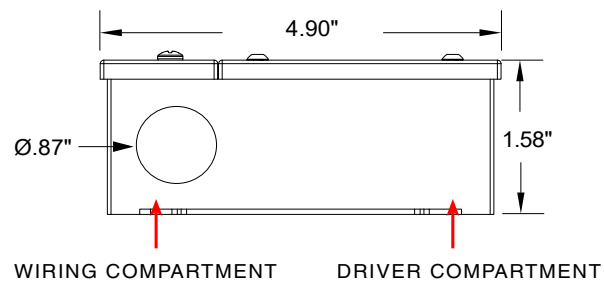
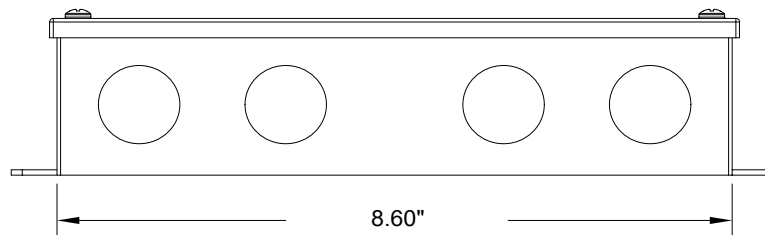
Installation Instructions

QZ-DALI 96W

TOP VIEW



WIRING COMPARTMENT VIEW



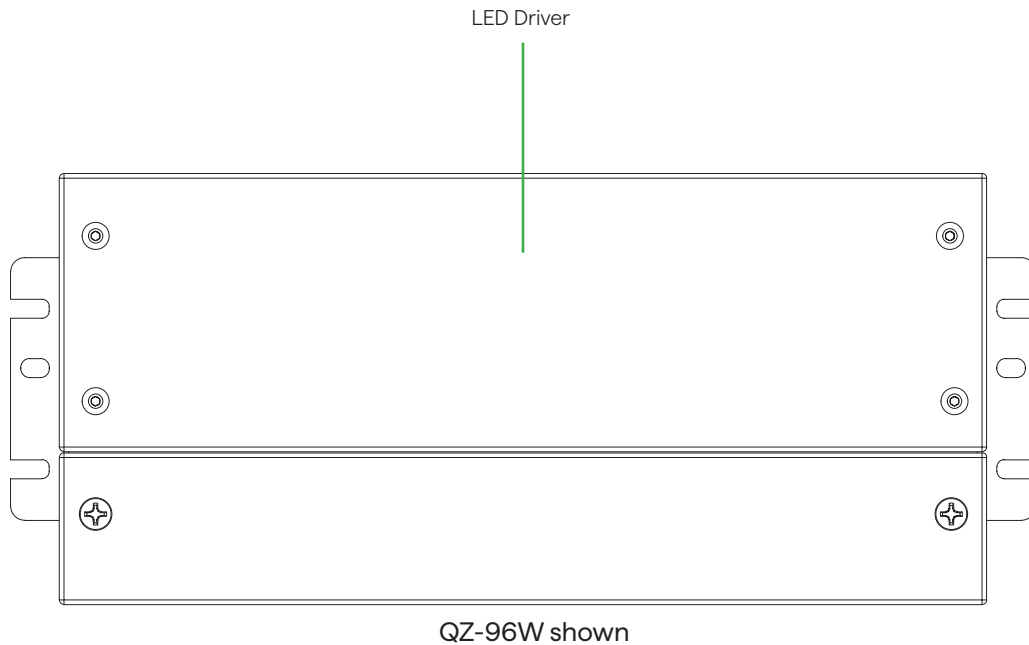


MATERIAL RECYCLING

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.



LED Drivers