QZ-DALI-DT8

24V DC Power Supply - 96W



- DALI-2 certified DT8 control gear
- Class 2 LED driver with 96W, 24V output
- Powers Tunable White, RGB and RGBW 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	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

2CH 2 Channel
3CH 3 Channel
4CH 4 Channel

7 COLOR

BK Black Powder Coat Finish

COMPATIBLE LEDS

STATIC WHITE

SW24/1.5-4.0 SW-DR24/1.5-4.0 SHLD-SW24/1.5-4.0 SW-SCOB24/1.5-4.0	
SW24/5.0, SW-HE, SW-HE+ SW-DR24/5.0, SW-HE-DR SHLD-SW24/5.0, SHLD-SW-HE SW-SCOB24/5.0	
SW-SD24/1.0-4.0	
SW-SD24/6.0	
SW-IA	
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	✓	2CH
Q-SHEETS DW Warm Dim Applications	✓	2CH
Q-SHEETS RGB	✓	3CH
Q-SHEETS RGBW	✓	4CH

If using a DW LED, wattage must be doubled

MICRO 5

MICRO 5 SW		
MICRO 5 DW Tunable Applications	✓	2CH
MICRO 5 DW Warm Dim Applications	✓	2CH
MICRO 5 RGB	✓	3CH

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

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QZ-DALI-DT8

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VOLTAGE DROP CHART

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

VOLTAGE DROP

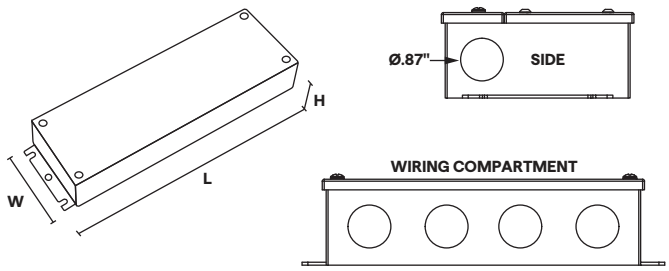
Distance from PS for 1% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	192	121	76	48	30	19	12	7	5
24	30	96	60	38	24	15	9	6	4	2
24	45	64	40	25	16	10	6	4	2	2
24	60	48	30	19	12	8	5	3	2	1
24	80	36	23	14	9	6	4	2	1	1
24	96	30	19	12	7	5	3	2	1	1

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

QZ-DALI-DT8

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	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 Protecton (OTP)
- I/P-O/P:1.88KVAC
- I/P-O/P:100MΩ/500VDC/77°F/70%RH

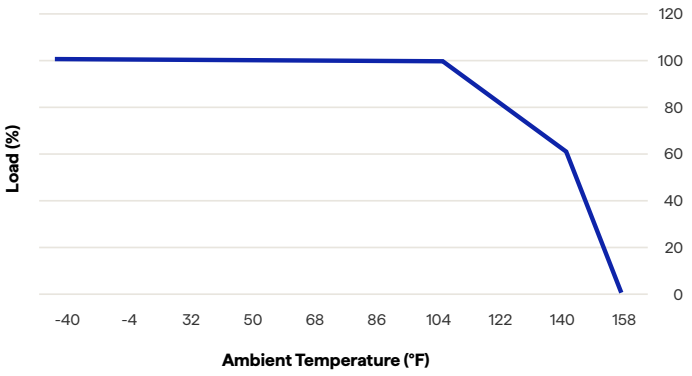
COMPLIANCE/SAFETY

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

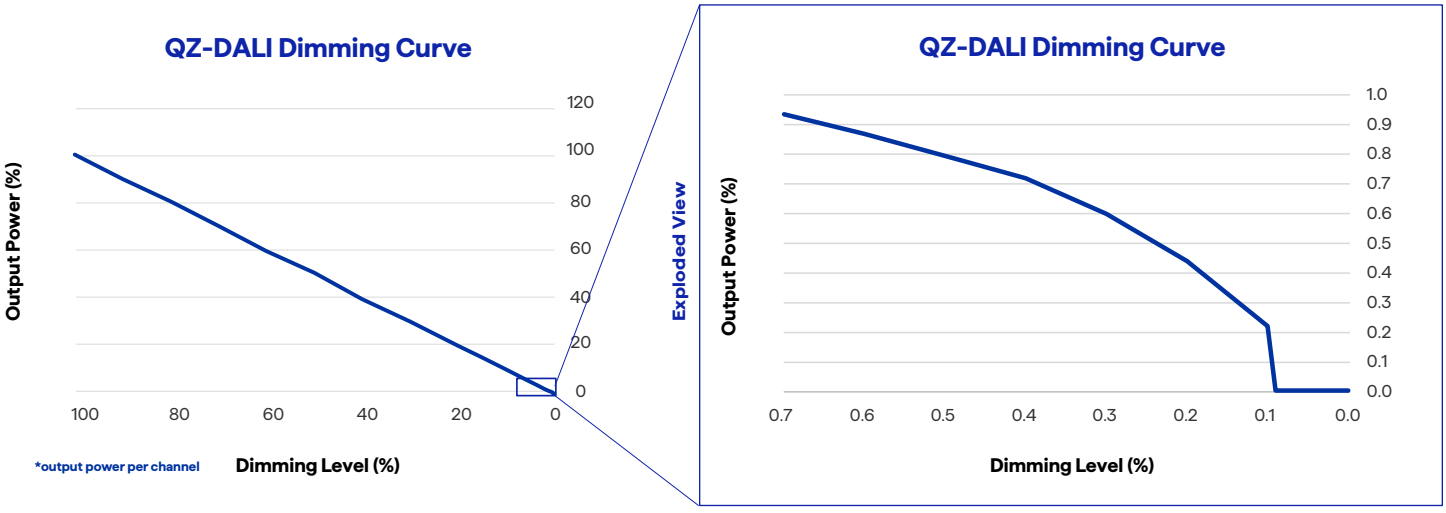
7 COLOR

Black Powder Coat Finish

Derating Curve



QZ-DALI Dimming Curve



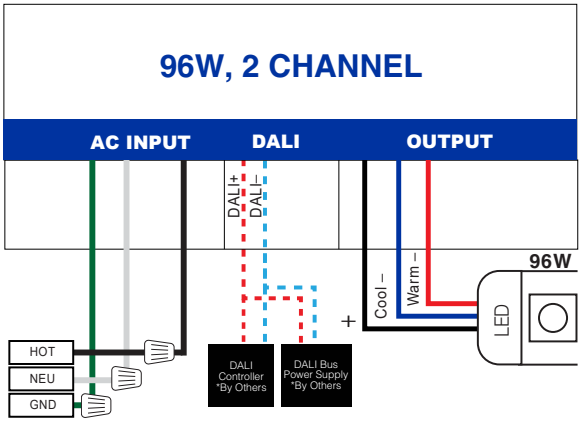
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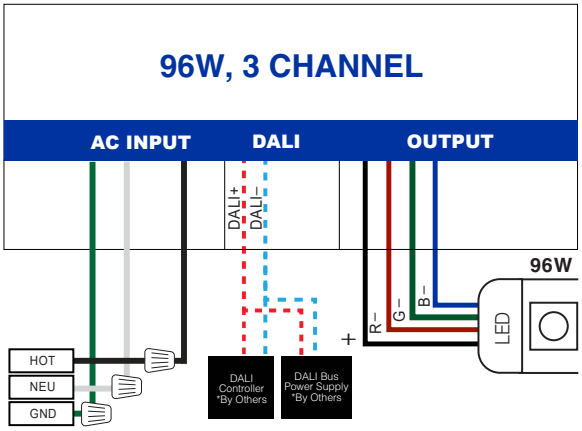
Specification subject to change. Rev-08-24-26

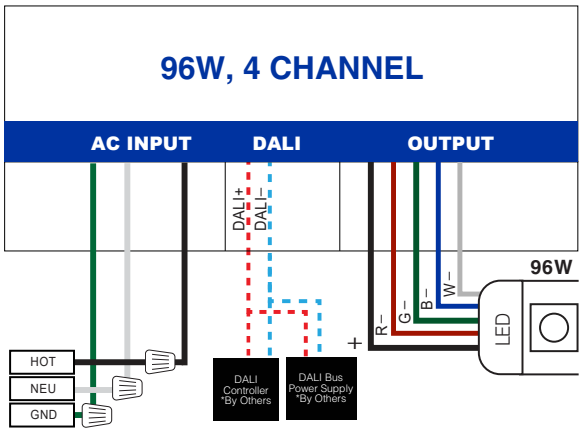
QZ-DALI-DT8

24V DC Power Supply - 96W

WIRING DIAGRAM







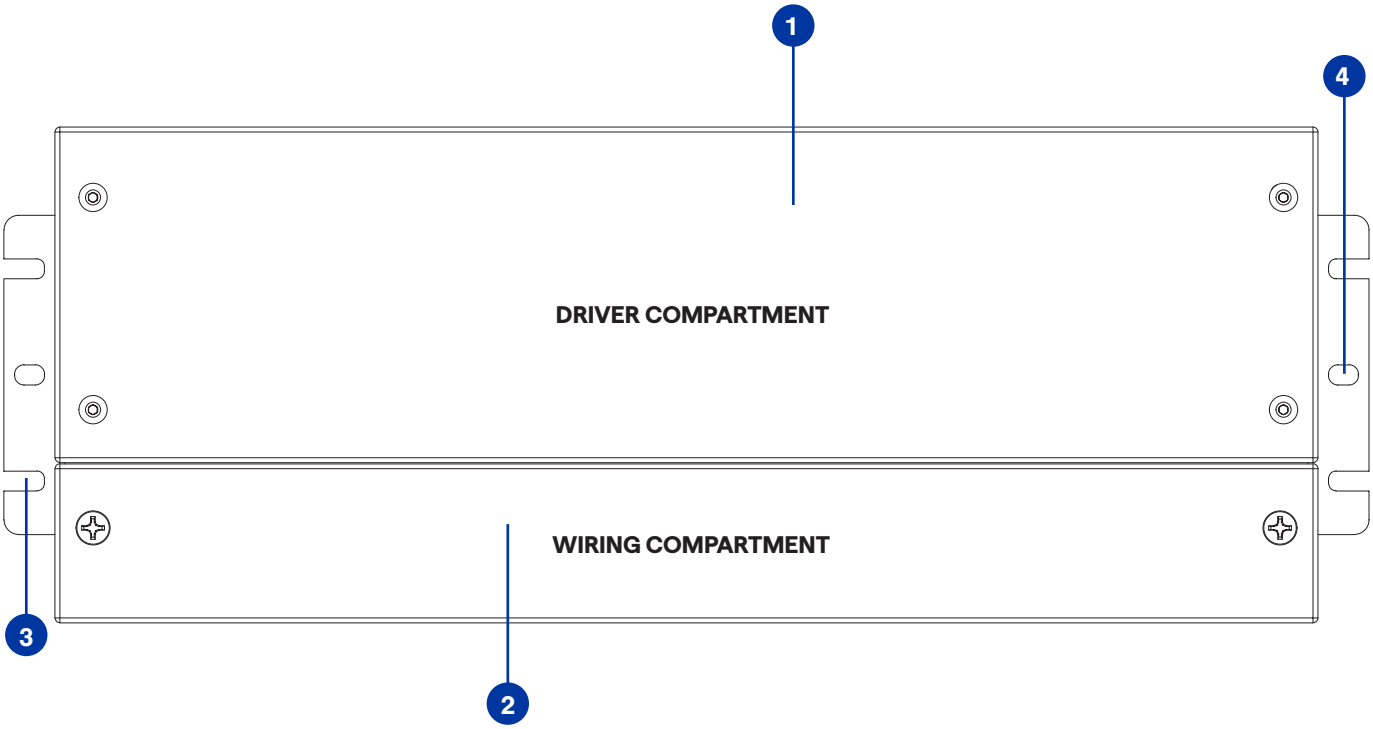
- Default DALI address for the driver is #1 and default output voltage is 24V.
- Wiring from power supply to light fixture must be single multiconductor cable.

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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

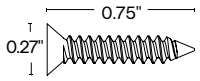
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Specification subject to change. Rev-03-08-24

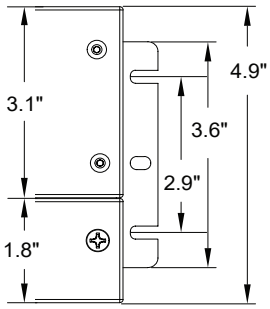
QZ-DALI

Installation Instructions

Required Hardware

#6 Flat head screw	

Mounting Foot:

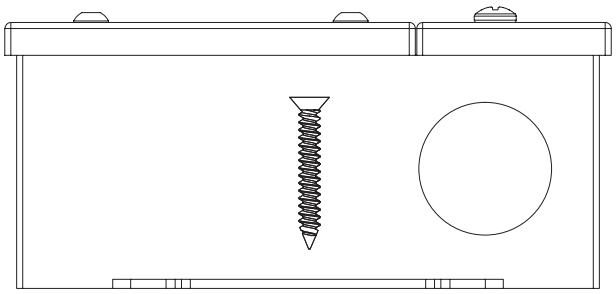


96W

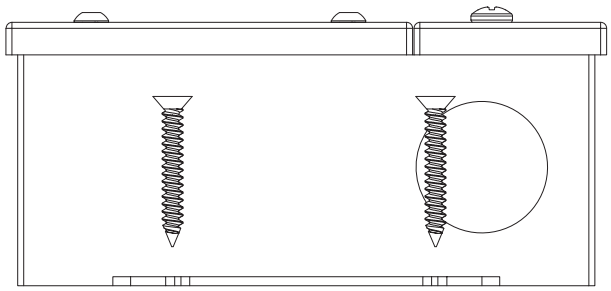
Mounting

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

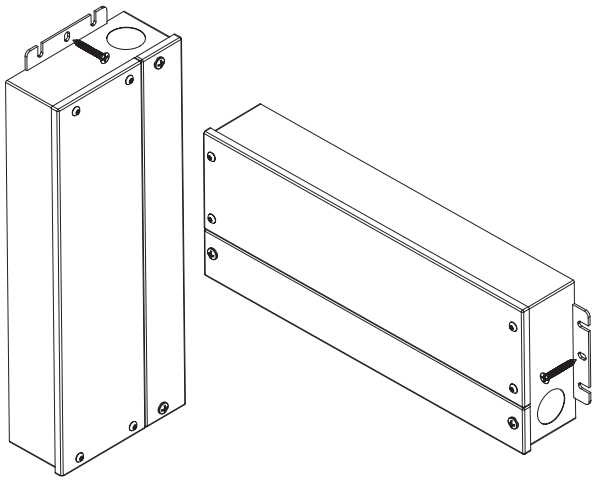


SIDE SLOTS

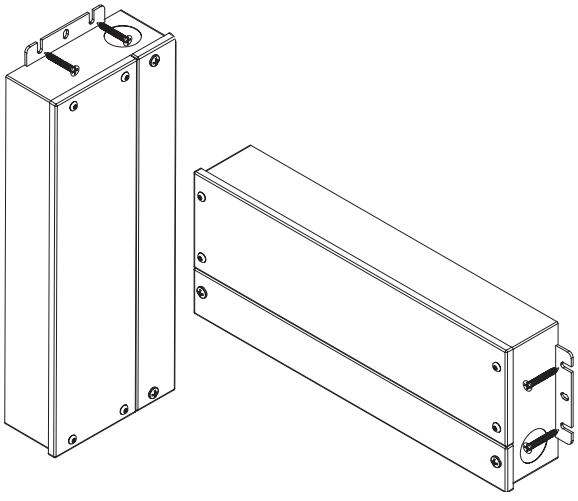


2. The QZ-DALI must be mounted into a stud for sufficient support, using either the center holes or the slots of each mounting tab

CENTER HOLE



SIDE SLOTS



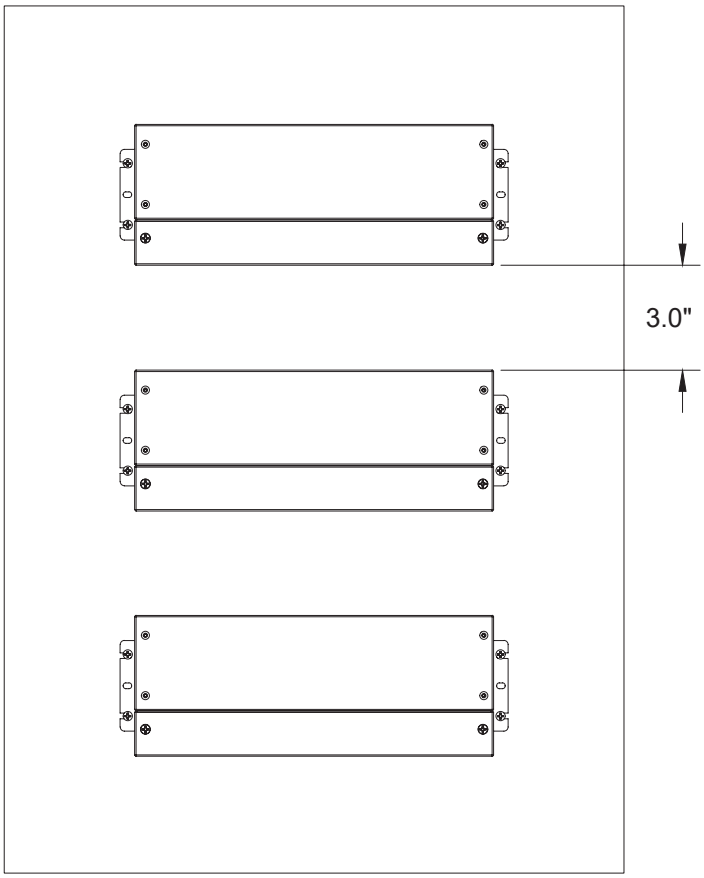
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Specification subject to change. Rev-03-08-24

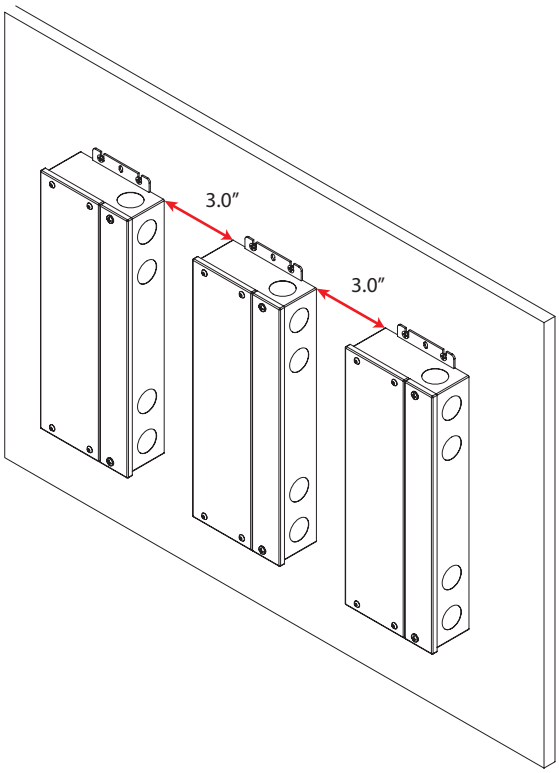
QZ-DALI

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



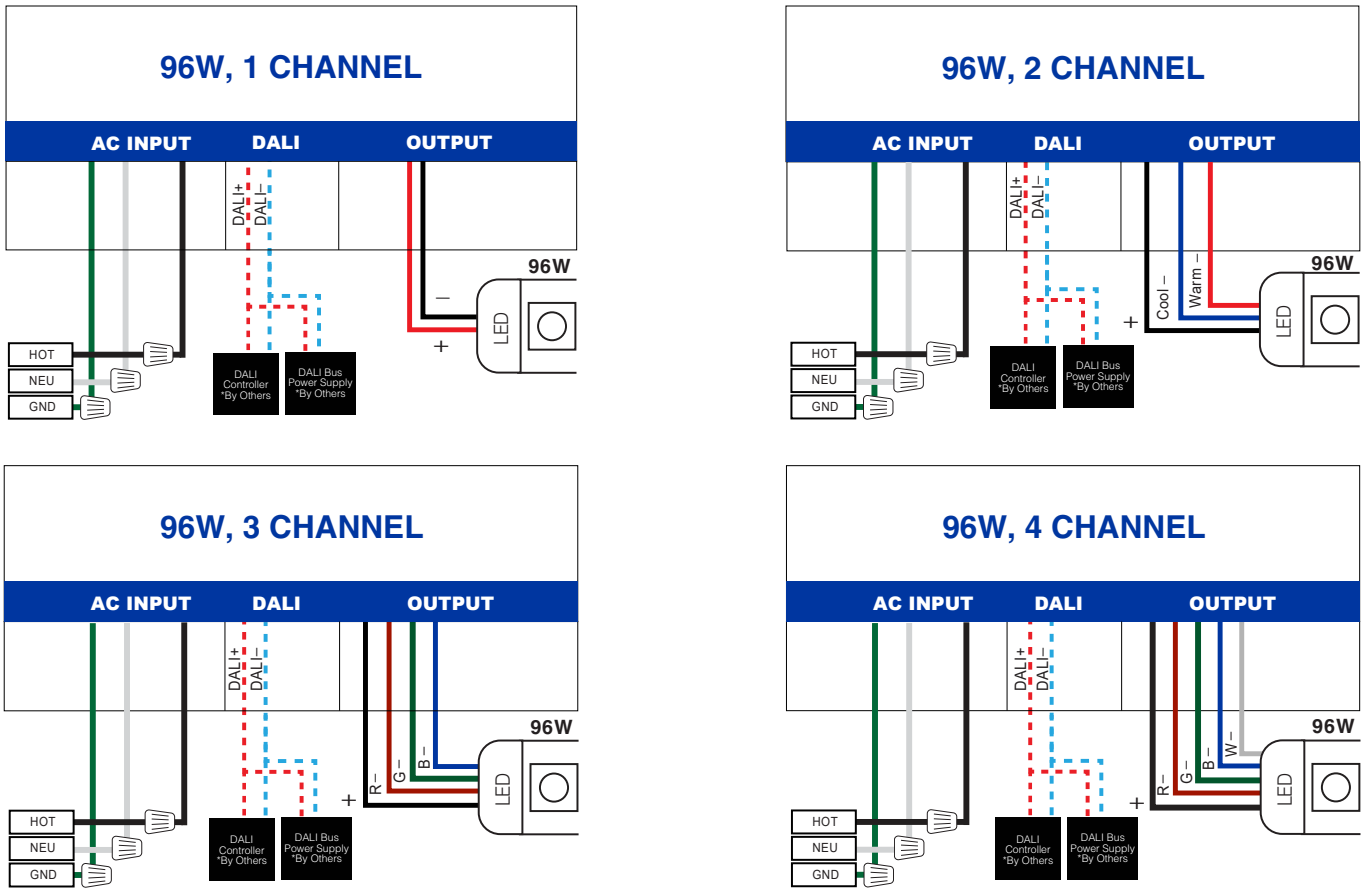
Vertical mount illustrated above

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QZ-DALI

Installation Instructions

4 Wiring diagram



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

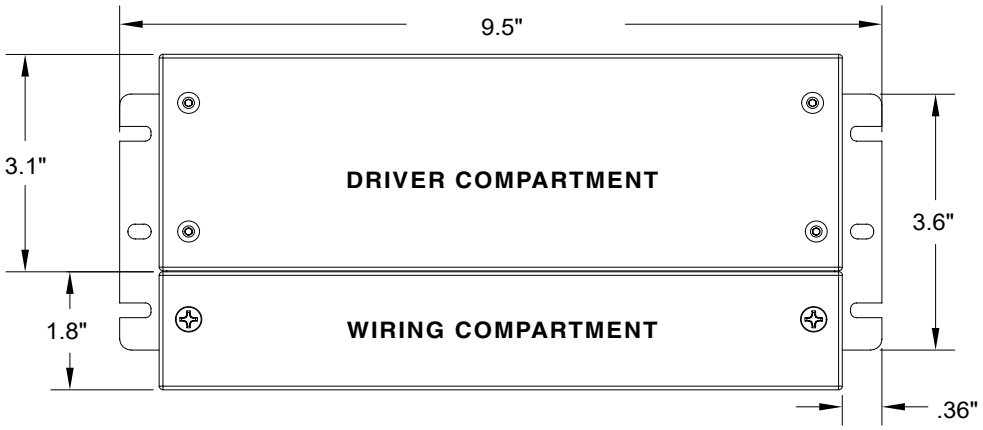
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QZ-DALI

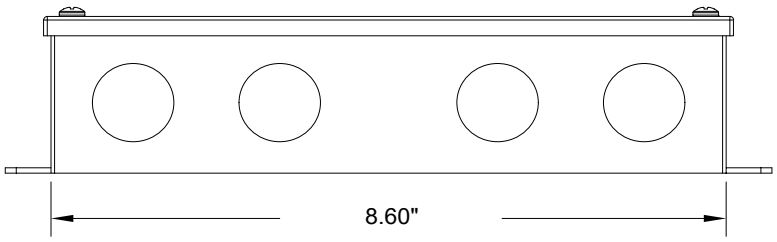
Installation Instructions

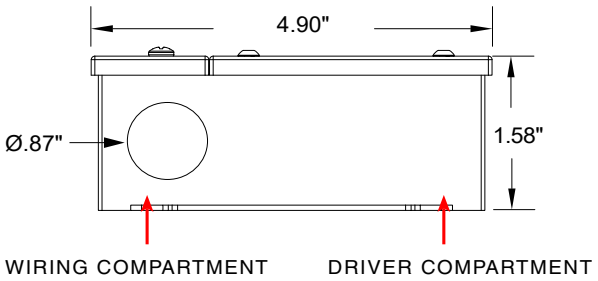
QZ-DALI 96W

TOP VIEW



WIRING COMPARTMENT VIEW





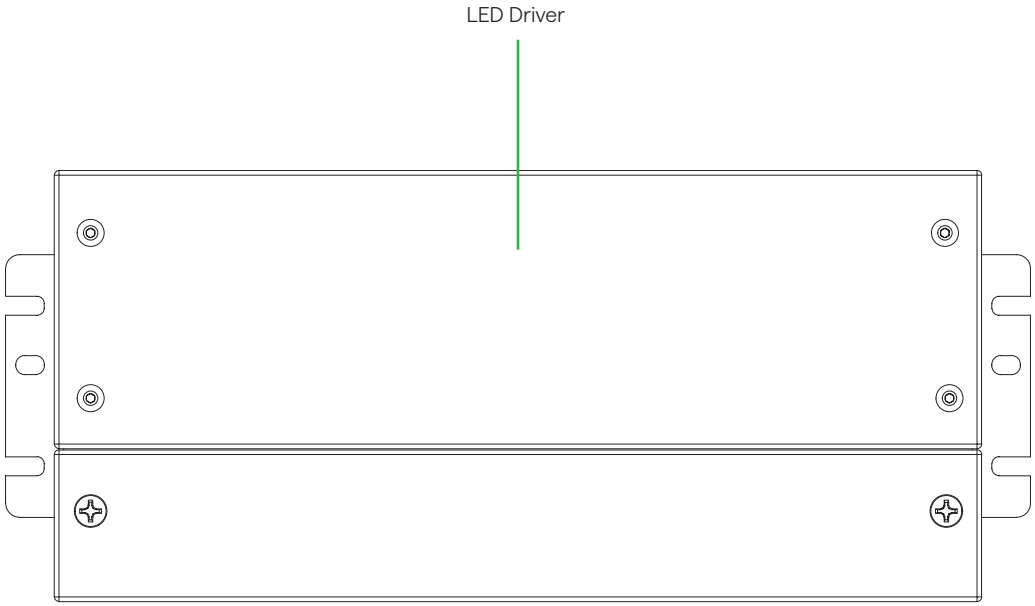
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MATERIAL RECYCLING

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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