QZ-DMX

24V DC Power Supply - 96W



- Class 2 LED power supply with DMX control capabilities
- Features up to 4 channel outputs that can power static white, static color, warm dim and dynamic color LED products
- Compatible with the QTL NFC App for reading and writing DMX Addresses and adjusting output voltage

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

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

1 PRODUCT

QZ

2 WATTAGE

96W

3 PRIMARY VOLTAGE

UNV Universal

4 SECONDARY VOLTAGE

24V

5 CONTROL

DMX

6 CHANNEL

1CH 1 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	✓	1CH
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	✓	1CH
SW-SD24/1.0-4.0	✓	1CH
SW-SD24/6.0	✓	1CH
SW-IA		
SW-XT	✓	1CH

OTHER

DW-HE Tunable Applications	✓	2CH
DW-HE Warm Dim Applications		2CH
WD	✓	1CH
SC	✓	1CH
RGB	✓	3CH
RGBW, RGBW-HE	✓	4CH

If using a DW LED, wattage must be doubled

SHEETS

Q-SHEETS SW	✓	1CH
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	✓	1CH
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
- 8 Bit DMX Control
- RDM addressing
- NFC App for addressing & Voltage adjust
- Adjustable output voltage - Range: 24V-26V
- DMX dimming down to 0.1%
- 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-DMX

24V DC Power Supply - 96W

VOLTAGE DROP CHART

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

VOLTAGE DROP

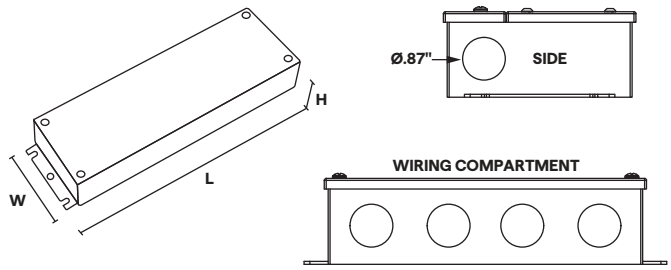
Distance from PS for 1% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	192	121	76	48	30	19	12	7	5
24	30	96	60	38	24	15	9	6	4	2
24	45	64	40	25	16	10	6	4	2	2
24	60	48	30	19	12	8	5	3	2	1
24	80	36	23	14	9	6	4	2	1	1
24	96	30	19	12	7	5	3	2	1	1

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	4.5	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
CH2	96W	100-277V	24VDC	2X2.08A	DW, DW-HE
CH3	96W	100-277V	24VDC	3X1.39 A	RGB
CH4	96W	100-277V	24VDC	4X1.04A	RGBW

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

QZ-DMX

24V DC Power Supply - 96W

SPECIFICATIONS

Input	
Input Voltage (Vrms)	110-277V
Input Current, max (Arms)	1.25A @ 100V
Inrush Current, max* (Apk)	48.5A @ 277V
Input Frequency (Hz)	50/60
Input Power (W)	125

Output	
Output Voltage, nom (V)	24
Output Current (A)	4.17A @ 24V
Output Power (Wmax)	96W

Environmental	Min	Nom	Max
THD (%)	-	-	20
PF (%)	0.94	-	-
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

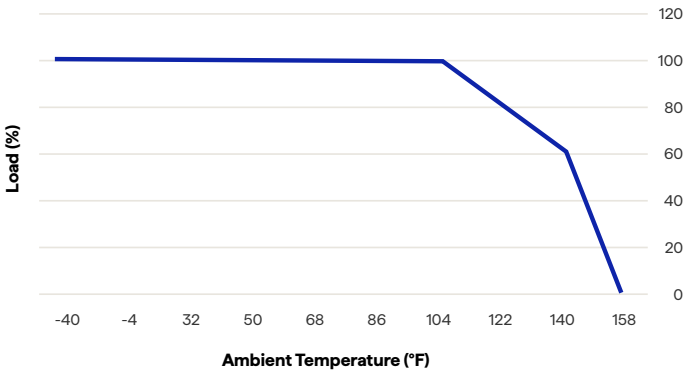
COMPLIANCE/SAFETY

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

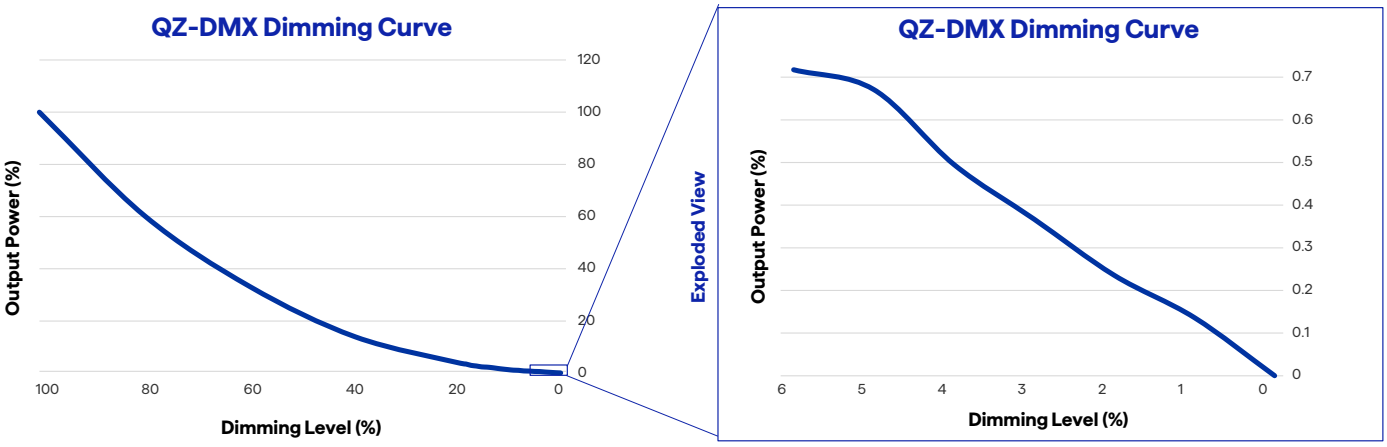
7 COLOR

Black Powder Coat Finish

Derating Curve



QZ-DMX Dimming Curve



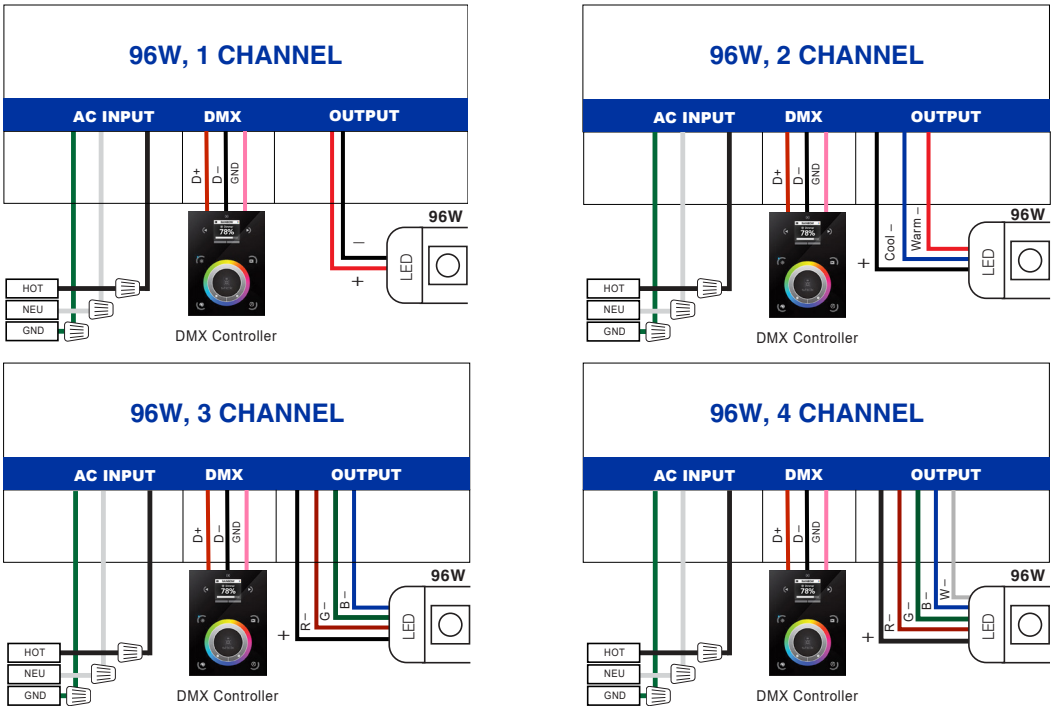
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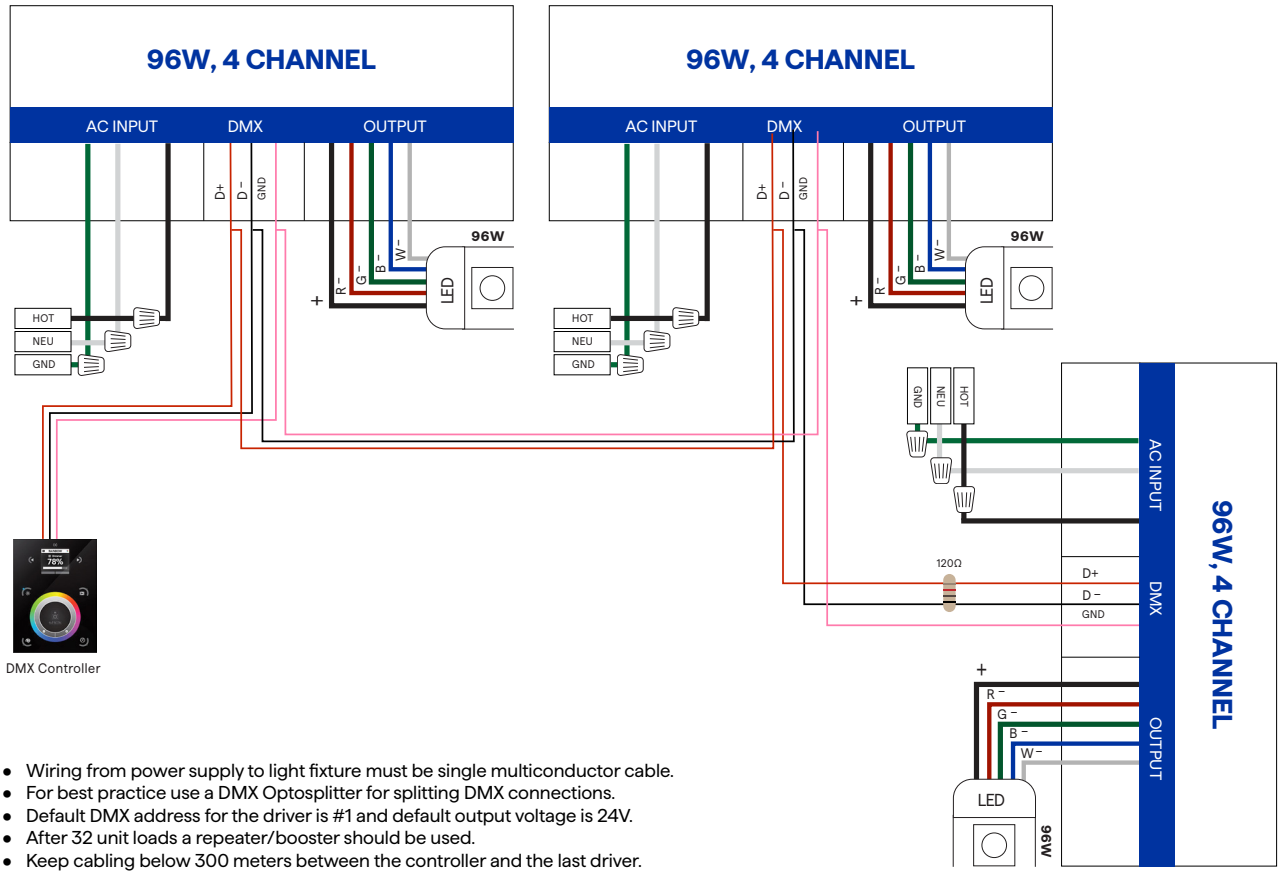
Specification subject to change. Rev-08-24-26

QZ-DMX

24V DC Power Supply - 96W

WIRING DIAGRAM





- Wiring from power supply to light fixture must be single multiconductor cable.
- For best practice use a DMX Optosplitter for splitting DMX connections.
- Default DMX address for the driver is #1 and default output voltage is 24V.
- After 32 unit loads a repeater/booster should be used.
- Keep cabling below 300 meters between the controller and the last driver.

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

QZ-DMX

24V DC Power Supply - 96W

COMPATIBLE CONTROL ACCESSORIES

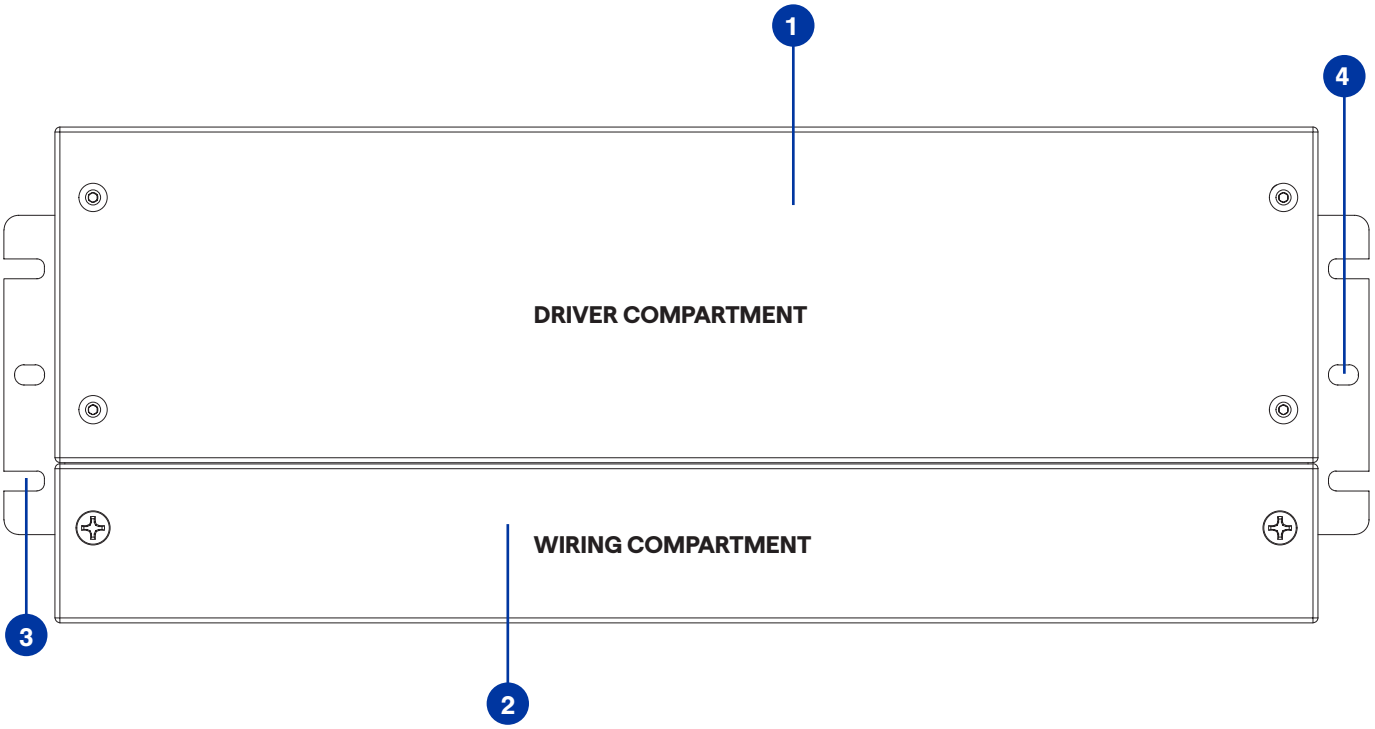
DMX-US1	DMX-US3	UX8	iQ-DMX-STICK-GA2	iQ-DMX-STICK-DE3	iQ-DMX-STICK-CW4
					
DMX-based controller	DMX-based controller	Easy-to-use DMX-based controller	DMX controller for changing color & dimming	DMX controller for changing color & dimming	DMX controller for changing color & dimming

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LED POWER SUPPLY - QZ-DMX

Installation Instructions

TOP VIEW



- **Must be installed by licensed electrician.**
- **Installation must be in accordance with DMX512-A standard**
- **DMX Shield must be grounded to Earth Ground at a single point external to power supply**

QZ Components

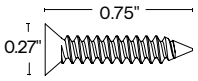
1 Driver Compartment 2 Wiring Compartment 3 Mounting Tab Slots 4 Mounting Tab Holes

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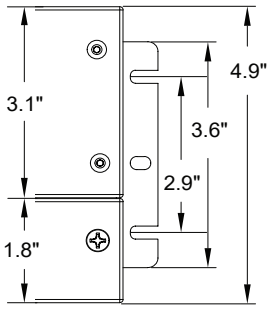
LED POWER SUPPLY - QZ-DMX

Installation Instructions

Required Hardware

#6 Flat head screw	

Mounting Foot:

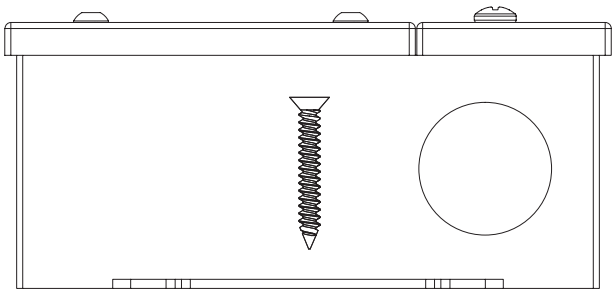


96W

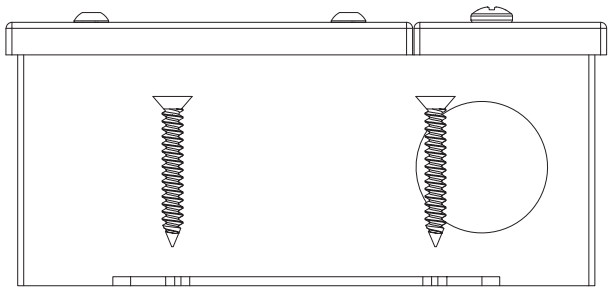
Mounting

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

CENTER HOLE

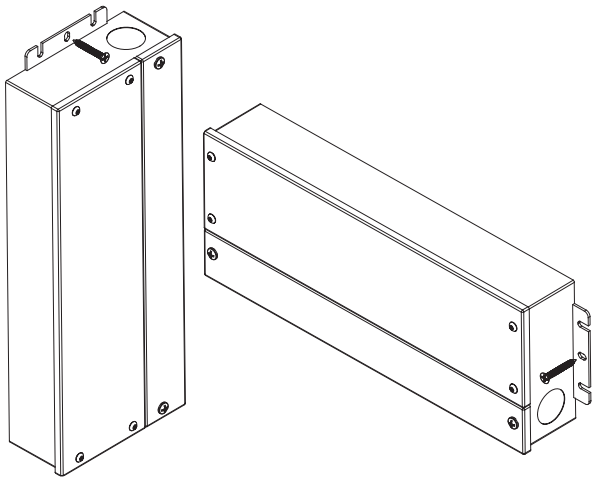


SIDE SLOTS

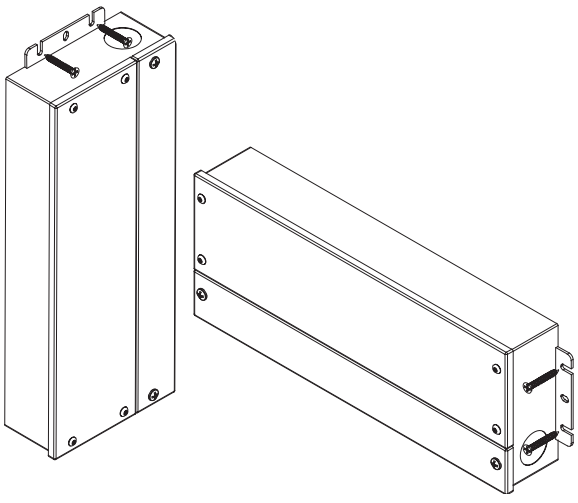


2. The QZ must be mounted into a stud for sufficient support, using either the center holes or the slots of each mounting tab

CENTER HOLE



SIDE SLOTS

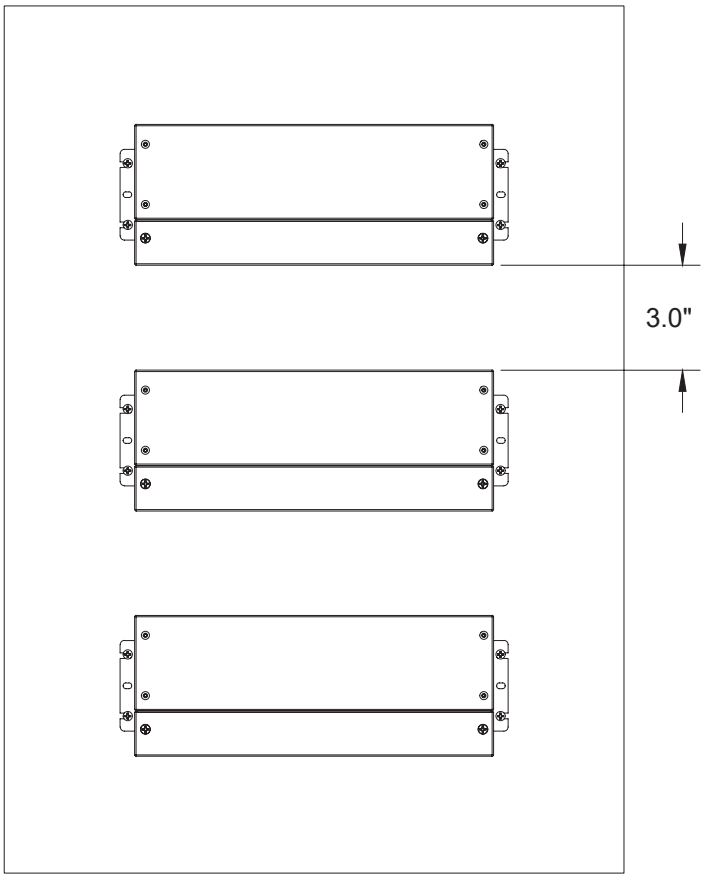


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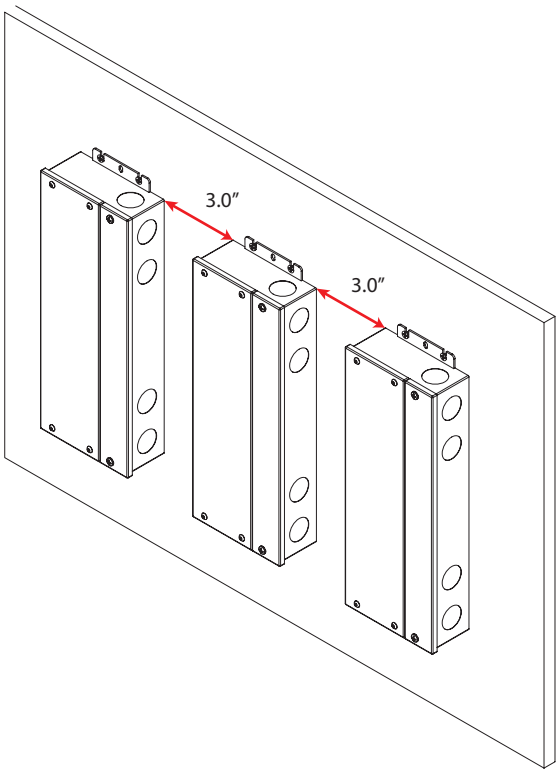
LED POWER SUPPLY - QZ-DMX

Installation Instructions

3 When installing multiple QZ 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



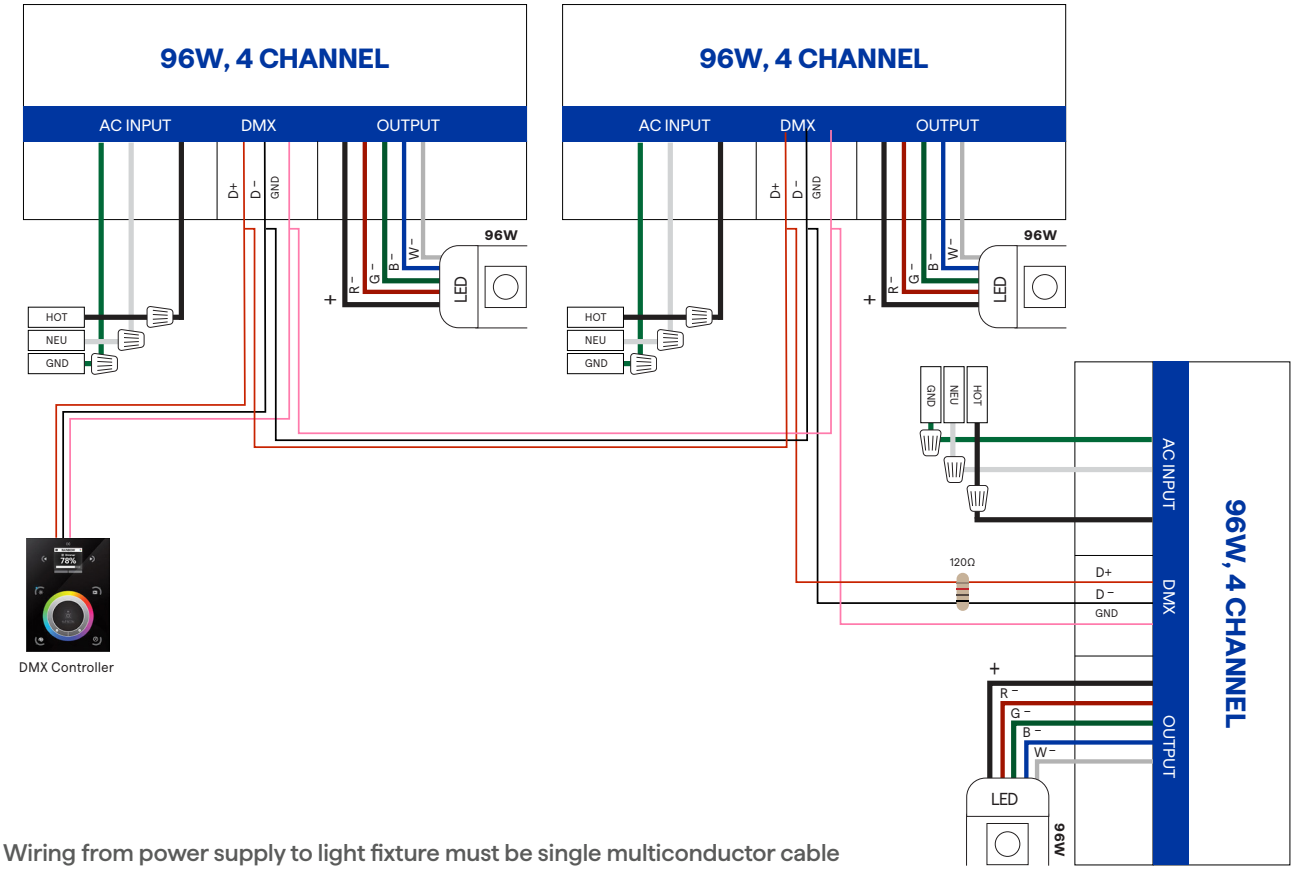
Vertical mount illustrated above

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LED POWER SUPPLY - QZ-DMX

Installation Instructions

4 Wiring diagram



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

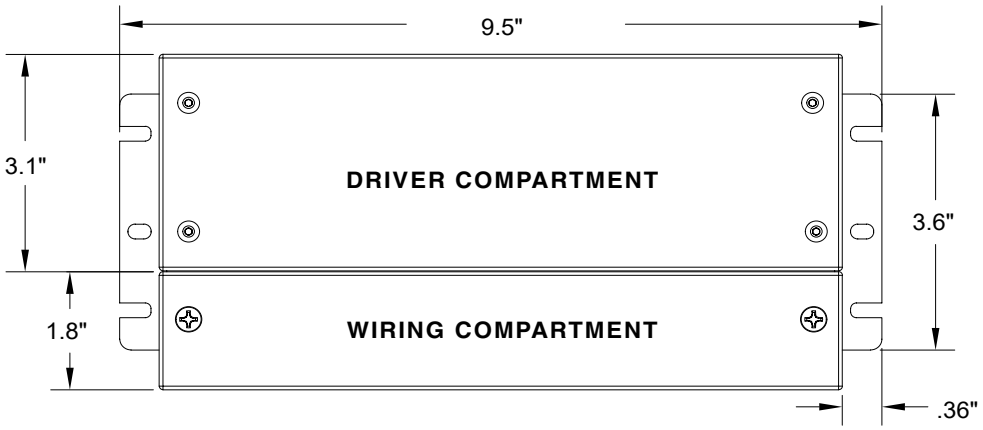
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LED POWER SUPPLY - QZ-DMX

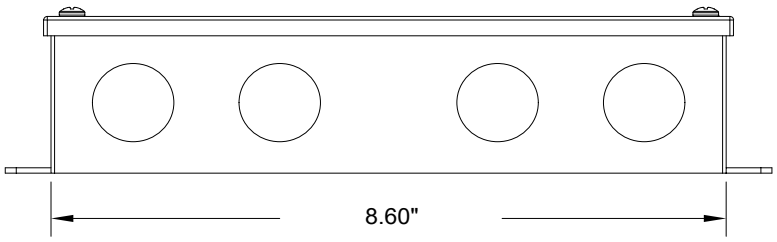
Installation Instructions

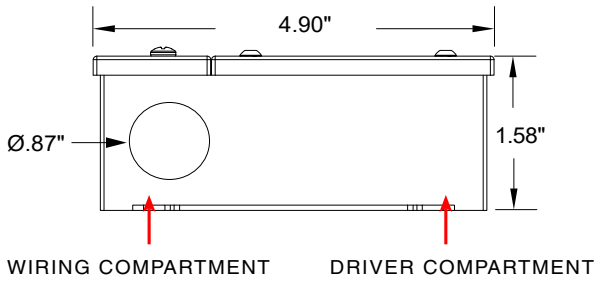
QZ-DMX 96W

TOP VIEW



WIRING COMPARTMENT VIEW





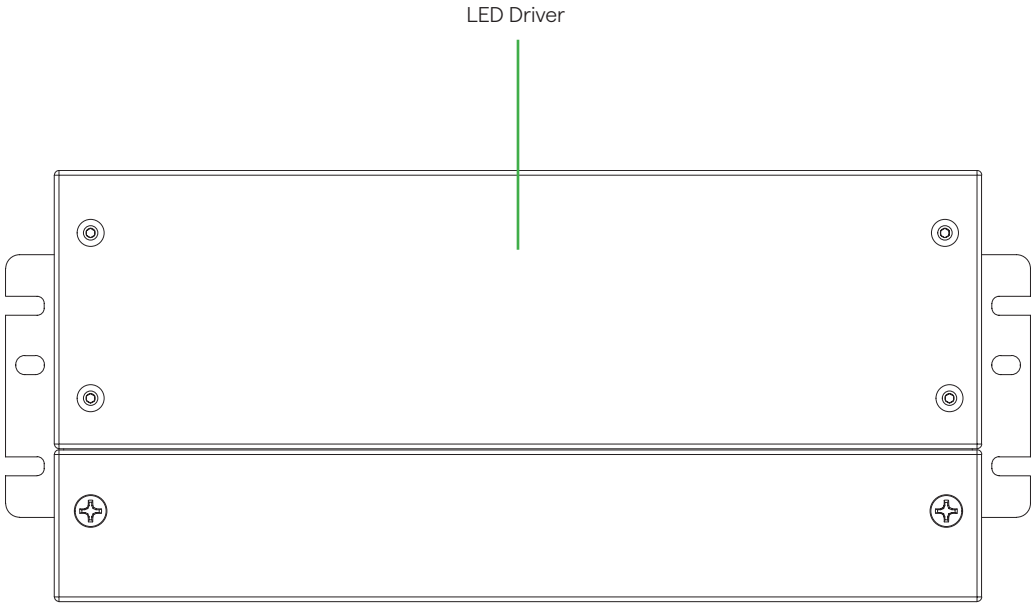
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MATERIAL RECYCLING

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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