QZ-STICK-PH/0-10V

24V DC Power Supply - 96W



- A slender and versatile Class 2 LED power supply.
- Can be controlled through phase dimming (forward or reverse) or 0-10V dimming methods.
- The PWM output ensures smooth and flicker-free dimming.
- Recommended to use a dimmer with a neutral wire when using phase control.
- The driver provides a constant voltage output of 24VDC.
- Available in a power capacity of 96 watts.
- The QZ-STICK is listed for interior use.

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE	5 CONTROL	6 COLOR
QZ-S	96W	UNV	24V	PH/010	WH

Sample Part Number: **QZ-S-96W-UNV-24V-PH/010-WH**

1 PRODUCT

QZ-S	

2 WATTAGE

96W	

3 PRIMARY VOLTAGE

UNV	Universal (120-277V)

4 SECONDARY VOLTAGE

24V	

5 CONTROL

PH/010	Phase or 0-10V dimming

6 COLOR

WH	White

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	
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

- Vertical or horizontal surface mount
- Constant voltage output
- PH/010 Dimming:
  - Phase dimming: works with forward phase / leading edge, MLV and Reverse phase / trailing edge, ELV, TRIAC dimmers
  - Dimming range: 0.1% - 100%
  - 0-10V dimming
  - 1-10V dimming
  - 10V PWM
  - Potentiometer
  - 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 and damp locations
- Suitable for indoor use
- Primary voltage - universal (110-277V)
- Wide operating temperature range: -40˚F to +140˚F
- UL, cUL listed
- Type HL rated
- Compliant to FCC Part 15B
- 5 year warranty

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QZ-STICK-PH/0-10V

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VOLTAGE DROP CHART

Wiring from power supply to light fixture must be two conductor cable. To calculate the wire lengths at specific loads, use QTL's online voltage drop calculator at https://www.qtl.lighting/voltage-drop-calculator/

VOLTAGE DROP

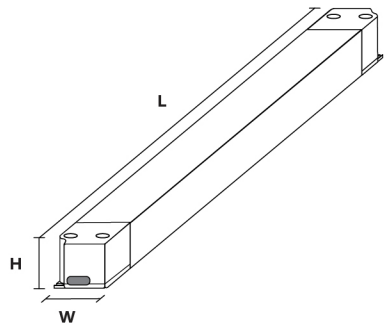
Distance from PS for 1% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	192	121	76	48	30	19	12	7	5
24	30	96	60	38	24	15	9	6	4	2
24	45	64	40	25	16	10	6	4	2	2
24	60	48	30	19	12	8	5	3	2	1
24	80	36	23	14	9	6	4	2	1	1
24	96	30	19	12	7	5	3	2	1	1

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	13.0	1.18	0.88



2 TECHNICAL INFORMATION

Wattage	Primary Voltage	Secondary Voltage	Secondary Current
96W	110-277V	24VDC	1x4 A

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QZ-STICK-PH/0-10V

24V DC Power Supply - 96W

SPECIFICATIONS

Input	
Input Voltage (Vrms)	100-277V
Input Current, max (Arms)	1.3A @ 110V
Inrush Current, max* (Apk)	27A@277V
Input Frequency (Hz)	50/60
Input Power (W)	130

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

Environmental	Min	Nom	Max
THD (%)	-	-	15
PF (%)	0.987	-	-
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

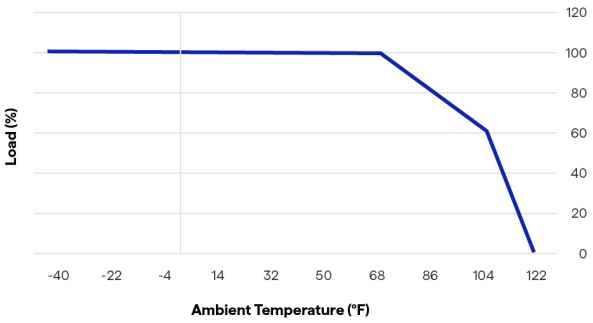
COMPLIANCE

- EMI Spec
  - FCC 47 CFR Part 15
- Subpart B
- CSA Certified
  - UL-8750

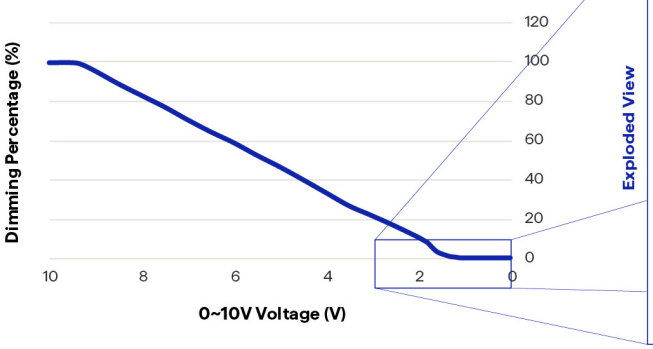
6 COLOR

White

Derating Curve

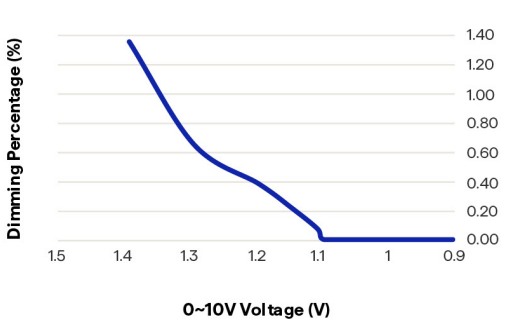


PH-010 QZ Dimming Curve



Exploded View

QZ Dimming Curve

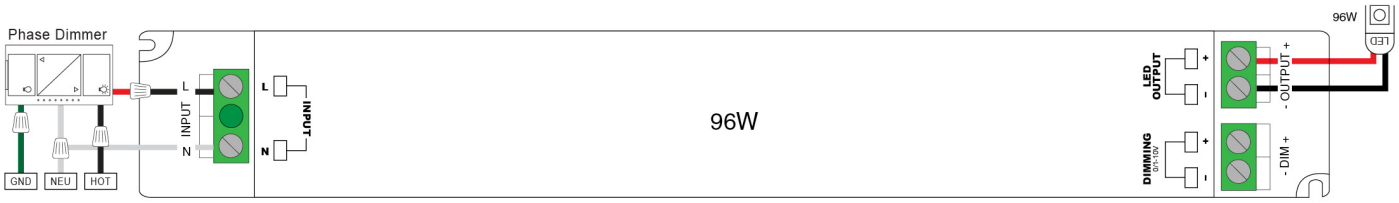


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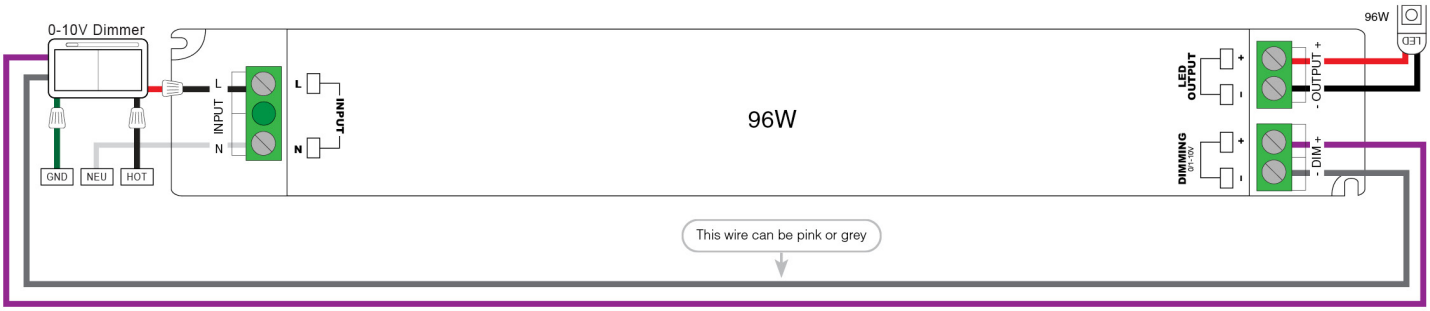
QZ-STICK-PH/0-10V

24V DC Power Supply - 96W

PHASE DIMMING



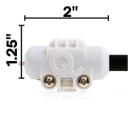
0-10V DIMMING



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

COMPATIBLE WIRING ACCESSORIES

Q-mini-J



UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

CON FOUR-FER



Splits lead from one to four LED Con connectors DRY/DMP/WET

CON120-EXT



10ft Con cable extender DRY/DMP/WET

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE



Wi-Fi or Bluetooth Connectivity

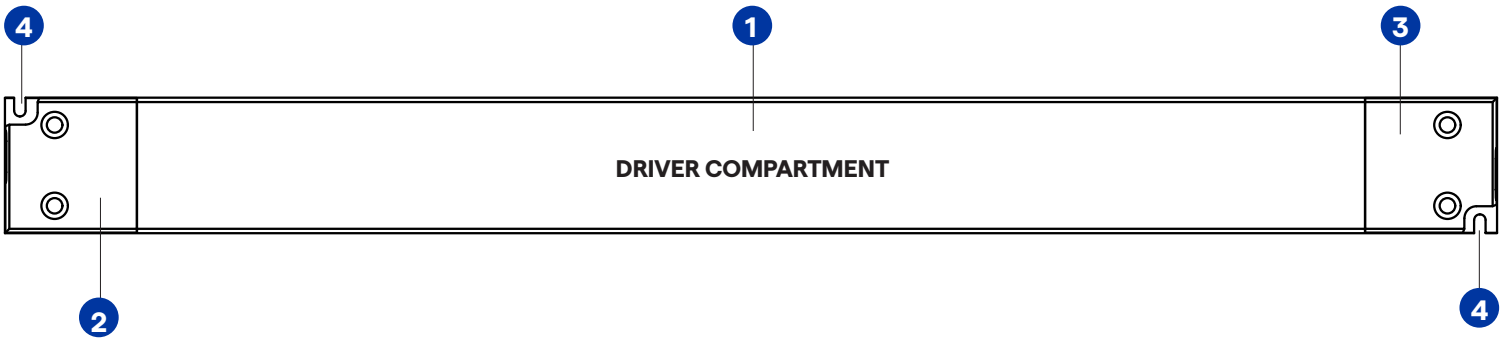
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Specification subject to change. Rev-08-24-26

QZ-STICK

Installation Instructions

TOP VIEW



QZ-STICK Components

1 Driver Compartment 2 Primary Compartment 3 Secondary Compartment 4 Mounting Tab Slots

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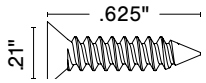
Specification subject to change. Rev-03-08-24

QZ-STICK

Installation Instructions

Required Hardware

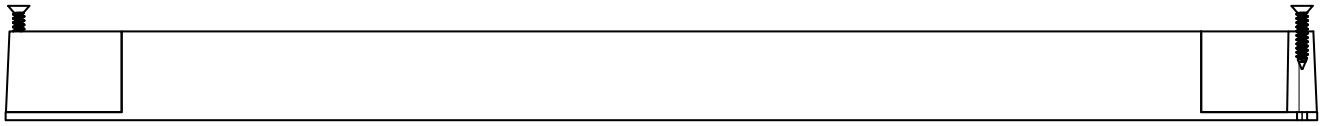
- #4 Flat head screw (not included)



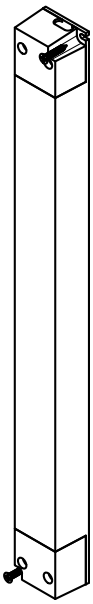
Mounting

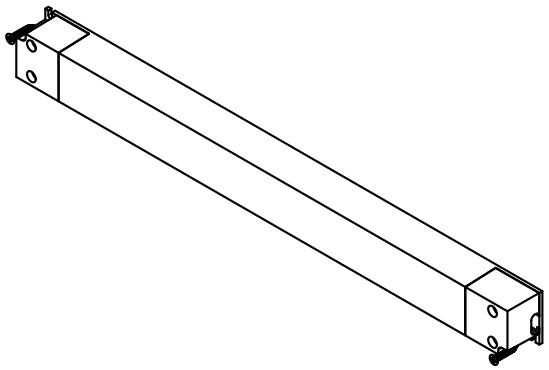
1. The QZ-STICK can be mounted either vertically or horizontally, utilizing the supplied screws and the mounting tabs on the bottom of the enclosure

SIDE SLOT



2. The QZ-STICK must be mounted into a stud for sufficient support, using the slots of each mounting tab



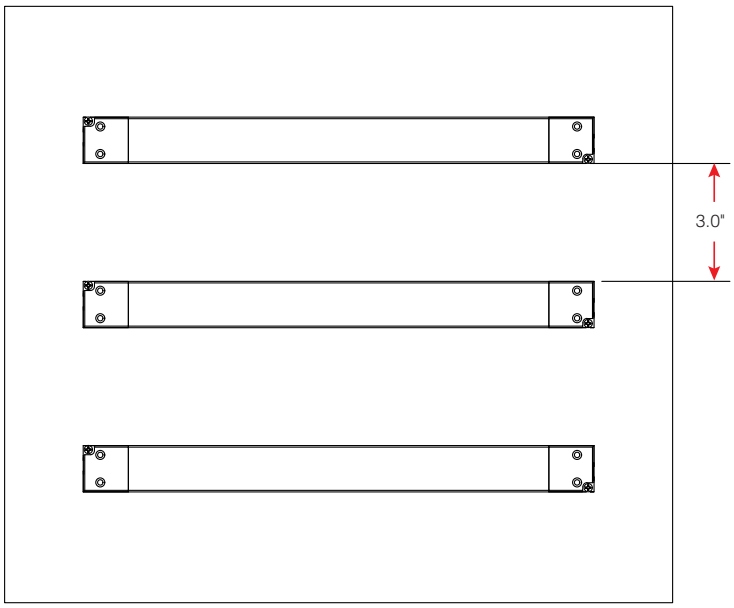


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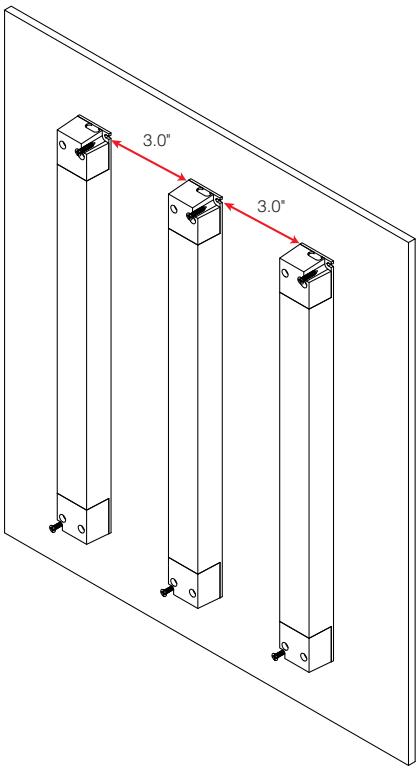
QZ-STICK

Installation Instructions

3 When installing multiple QZ-STICK 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

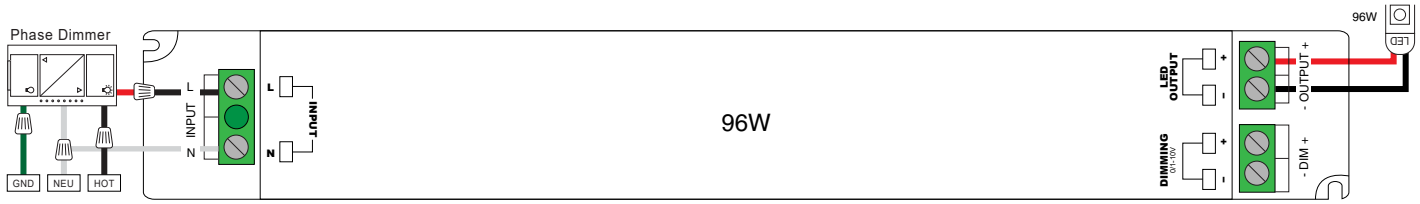
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QZ-STICK

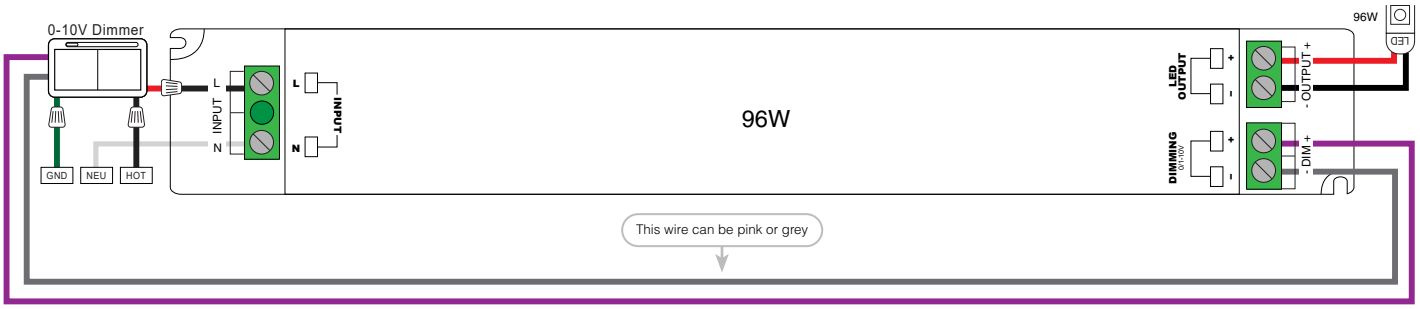
Installation Instructions

4 Wiring diagram

Phase Dimming



0-10v Dimming



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

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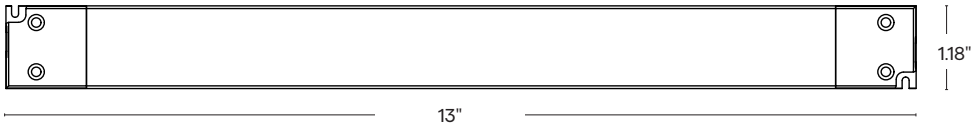
Specification subject to change. Rev-03-08-24

QZ-STICK

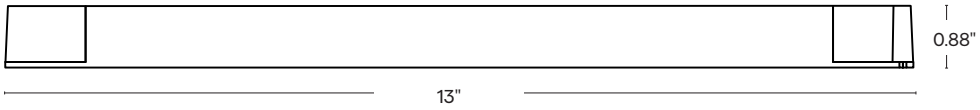
Installation Instructions

QZ-STICK 96W

TOP VIEW



SIDE VIEW



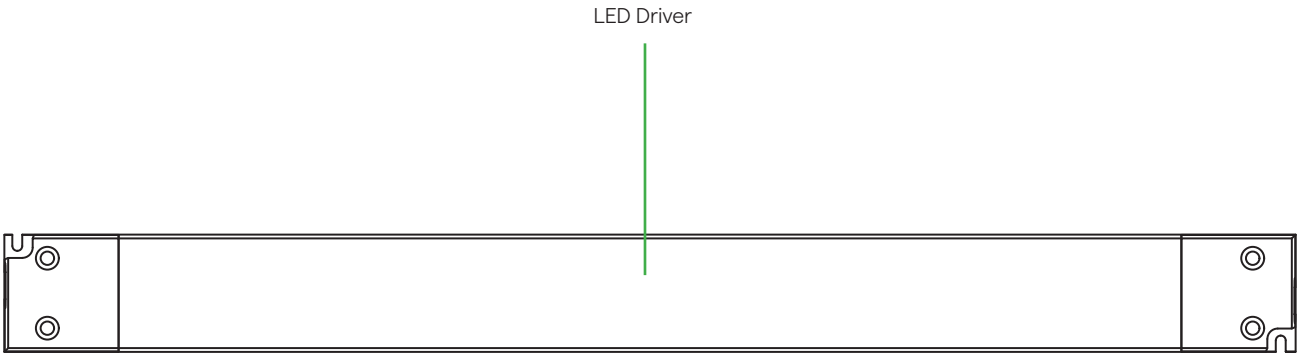
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MATERIAL RECYCLING

QZ STICK

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.



E

LED Drivers

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