QZ-PRO-PH/0-10V

24V DC Power Supply - 30W-288W



- Versatile Class 2 LED driver controlled with phase (forward or reverse) or 0-10V dimming, down to 0.1%
- Integrated potentiometer boosts output up to 26V to compensate for voltage drop, maintaining 24V at the fixture
- Adjust output locally as low as 17V to fine-tune brightness for each power supply and customize light level across multiple drivers on the same switch leg.
- Pulse Width Modulation (PWM) output provides smooth flicker-free dimming
- Available in various wattage options: 30W, 60W, 96W, 192W, and 288W
- Housing is listed for indoor or outdoor use

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

Sample Part Number: **QZ-PRO-60W-UNV-24V-PH/010-BK**

1 PRODUCT

QZ-PRO	

2 WATTAGE

30W	
60W	
96W	
192W	
288W	

3 PRIMARY VOLTAGE

UNV	Universal (120-277V)

4 SECONDARY VOLTAGE

24V	

5 CONTROL

PH/010	Phase or 0-10V dimming

6 COLOR

WH	White (Standard)
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	
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	

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QZ-PRO-PH/0-10V

24V DC Power Supply - 30W-288W

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
- Adjustable output voltage range: 17-26V. NOTE: Intent is to supply 24V at load input. Increase up to 26V specifically is to mitigate voltage drop over longer wire distances. Supplying voltage greater than 24V can result in LED failure and void warranty.
- Dimming down to 20% using integral potentiometer
- WET listed
- Follows recommended practices of IEEE standard P1789 to mitigate flicker-induced health risks
- Suitable for dry, damp and wet locations
- Suitable for indoor & outdoor 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

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/

Calculator distances reflect the maximum boost (26V output) for longest run length. Installer must measure voltage at the fixture and adjust the integrated potentiometer to deliver 24V. Use boost (above 24V) to compensate for voltage drop on long runs; reduce below 24V (down to 17V) to intentionally dim the fixture.

VOLTAGE DROP — 24V Source

Distance from PS for 1% Voltage Drop										
VDC	Load (W)	Wire Gauge (AWG)								
		10	12	14	16	18	20	22	24	26
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)	Wire Gauge (AWG)								
		10	12	14	16	18	20	22	24	26
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)	Wire Gauge (AWG)								
		10	12	14	16	18	20	22	24	26
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

VOLTAGE DROP — 25V Source

Distance from PS for 1% Voltage Drop										
VDC	Load (W)	Wire Gauge (AWG)								
		10	12	14	16	18	20	22	24	26
24	15	1034	650	409	257	162	102	64	40	25
24	30	517	325	205	129	81	51	32	20	13
24	45	345	217	136	86	54	34	21	13	8
24	60	259	163	102	64	40	25	16	10	6
24	80	194	122	77	48	30	19	12	8	5
24	96	162	102	64	40	25	16	10	6	4

Distance from PS for 3% Voltage Drop										
VDC	Load (W)	Wire Gauge (AWG)								
		10	12	14	16	18	20	22	24	26
24	15	1435	902	568	357	224	141	89	56	35
24	30	717	451	284	178	112	71	44	28	18
24	45	478	301	189	119	75	47	30	19	12
24	60	359	226	142	89	56	35	22	14	9
24	80	269	169	106	67	42	26	17	10	7
24	96	224	141	89	56	35	22	14	9	5

Distance from PS for 5% Voltage Drop										
VDC	Load (W)	Wire Gauge (AWG)								
		10	12	14	16	18	20	22	24	26
24	15	1835	1154	726	457	287	181	114	71	45
24	30	918	577	363	228	144	90	57	36	22
24	45	612	385	242	152	96	60	38	24	15
24	60	459	288	182	114	72	45	28	18	11
24	80	344	216	136	86	54	34	21	13	8
24	96	287	180	113	71	45	28	18	11	7

VOLTAGE DROP — 26V Source

Distance from PS for 1% Voltage Drop										
VDC	Load (W)	Wire Gauge (AWG)								
		10	12	14	16	18	20	22	24	26
24	15	1943	1222	769	483	304	191	120	76	48
24	30	972	611	385	242	152	96	60	38	24
24	45	648	407	256	161	101	64	40	25	16
24	60	486	305	192	121	76	48	30	19	12
24	80	364	229	144	91	57	36	23	14	9
24	96	304	191	120	76	48	30	19	12	7

Distance from PS for 3% Voltage Drop										
VDC	Load (W)	Wire Gauge (AWG)								
		10	12	14	16	18	20	22	24	26
24	15	2360	1484	934	587	369	232	146	92	58
24	30	1180	742	467	293	185	116	73	46	29
24	45	787	495	311	196	123	77	49	31	19
24	60	590	371	233	147	92	58	37	23	14
24	80	442	278	175	110	69	44	27	17	11
24	96	369	232	146	92	58	36	23	14	9

Distance from PS for 5% Voltage Drop										
VDC	Load (W)	Wire Gauge (AWG)								
		10	12	14	16	18	20	22	24	26
24	15	2776	1745	1099	691	434	273	172	108	68
24	30	1388	873	549	345	217	137	86	54	34
24	45	925	582	366	230	145	91	57	36	23
24	60	694	436	275	173	109	68	43	27	17
24	80	521	327	206	129	81	51	32	20	13
24	96	434	273	172	108	68	43	27	17	11

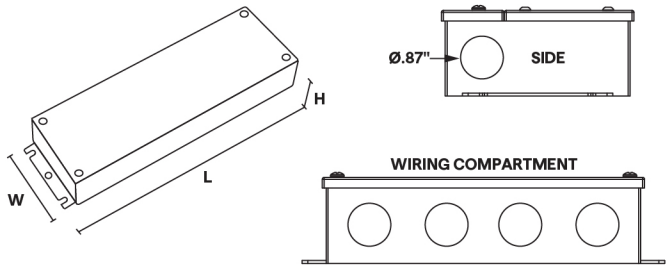
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QZ-PRO-PH/0-10V

24V DC Power Supply - 30W-288W

1 PRODUCT - DIMENSIONS

Size	Length (in)	Width (in)	Height (in)
30W	6.71	4.60	1.65
60W	7.73	4.09	1.58
96W	7.73	4.09	1.58
192W	9.13	4.59	1.57
288W	10.83	4.59	1.57



2 TECHNICAL INFORMATION

Wattage	Primary Voltage	Secondary Voltage	Secondary Current
30W	110-277V	24VDC	1.25 A
60W	110-277V	24VDC	2.5 A
96W	110-277V	24VDC	1x4 A
192W	110-277V	24VDC	2x4 A
288W	110-277V	24VDC	3x4 A

SPECIFICATIONS

Input	
Input Voltage (Vrms)	110-277V
Input Current, max (Arms)	2.9A @ 110V
Inrush Current, max* (Apk)	43A@277V
Input Frequency (Hz)	50/60
Input Power (W)	319

Output	
Output Voltage, nom (V)	24
Output Current (A)	288W, 3×4A @ 24V
Output Power (Wmax)	288W

Environmental	Min	Nom	Max
THD (%)	-	-	20
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

COMPLIANCE

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

6 COLOR

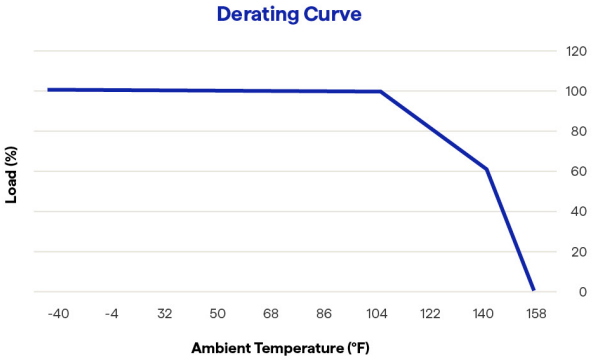
Black Powder Coat Finish

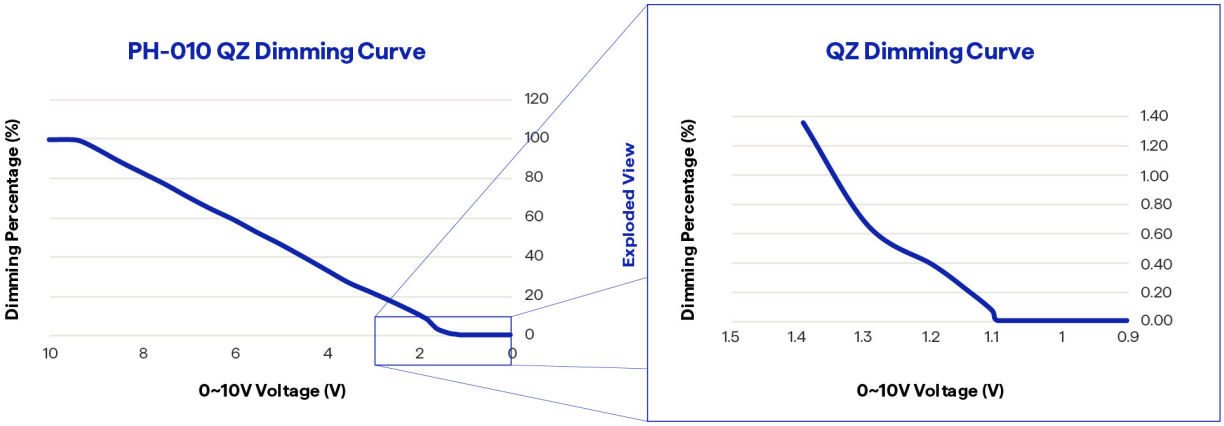
White (Standard)

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QZ-PRO-PH/0-10V

24V DC Power Supply - 30W-288W



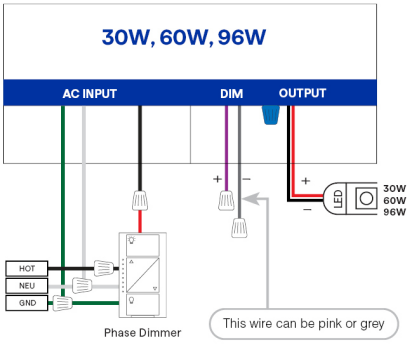


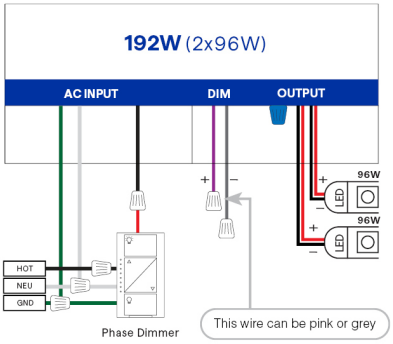
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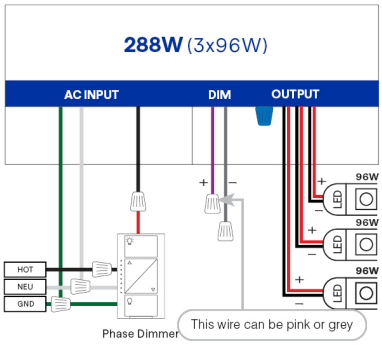
QZ-PRO-PH/0-10V

24V DC Power Supply - 30W-288W

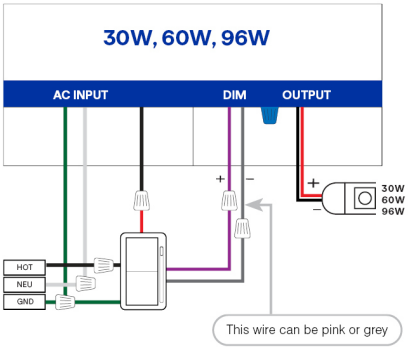
PHASE DIMMING

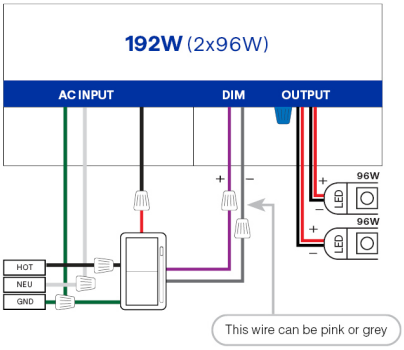


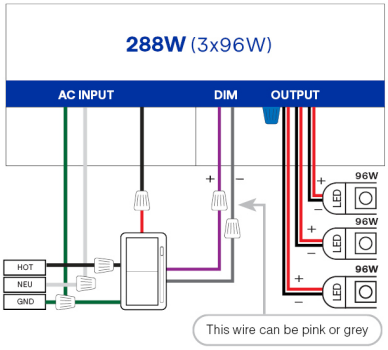




0-10V DIMMING







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

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

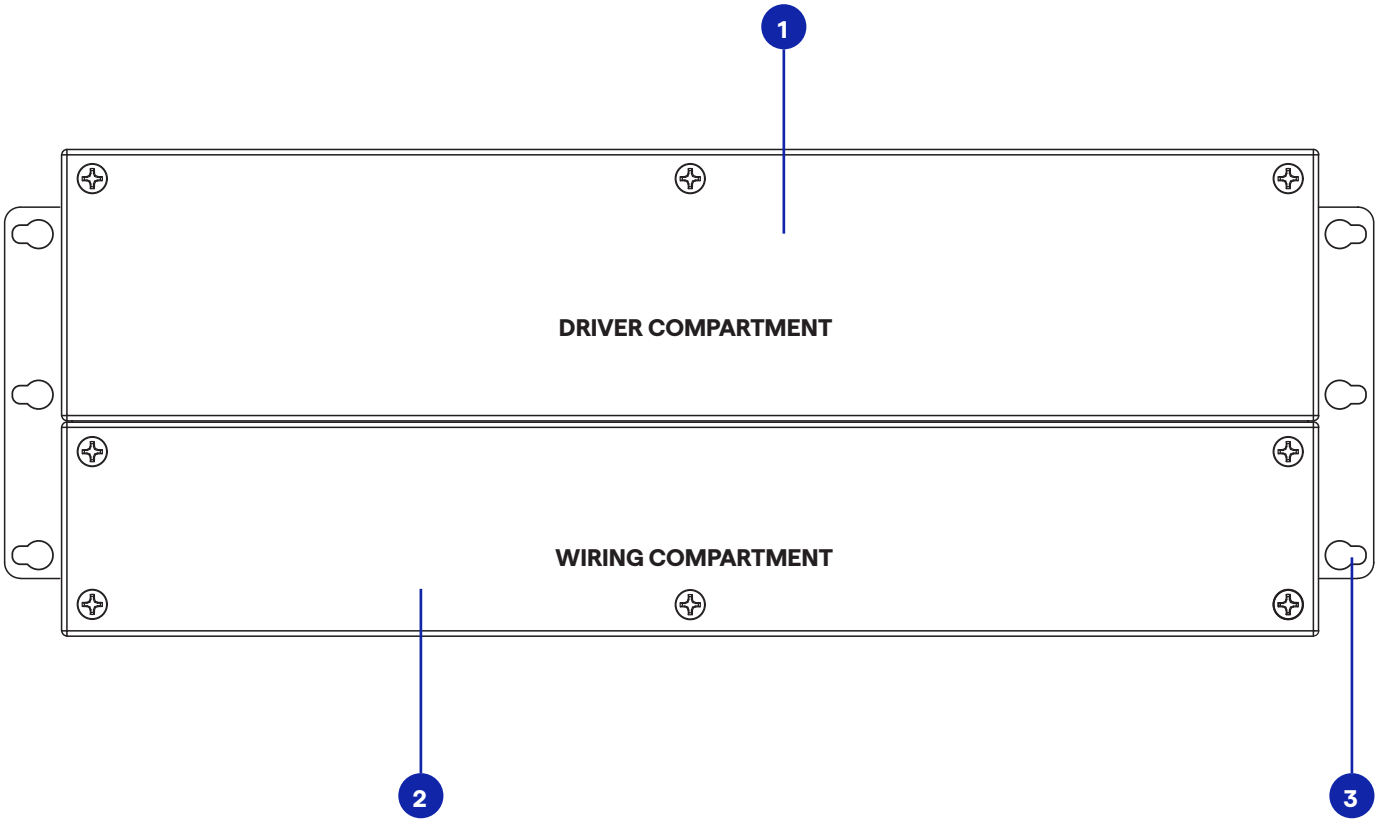
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Specification subject to change. Rev-08-24-26

QZ-PRO-PH/0-10V

Installation Instructions

TOP VIEW



QZ Components

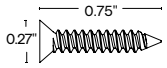
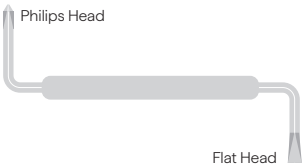
1 Driver Compartment 2 Wiring Compartment 3 Mounting Tab Slots

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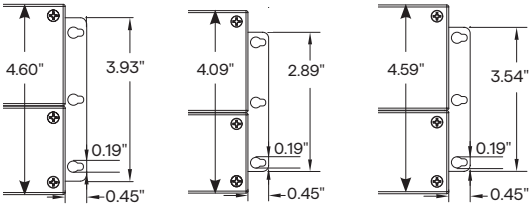
QZ-PRO-PH/0-10V

Installation Instructions

REQUIRED HARDWARE

#6 Flat head screw	
Z-Wrench	

MOUNTING FOOT:

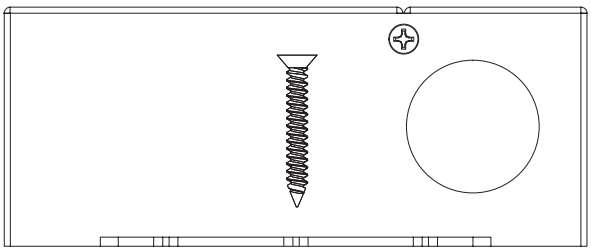


30W **60/96W** **192/288W**

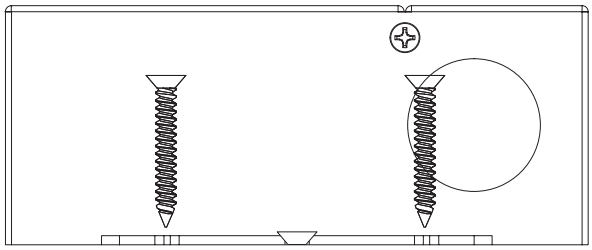
Mounting

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

CENTER HOLE

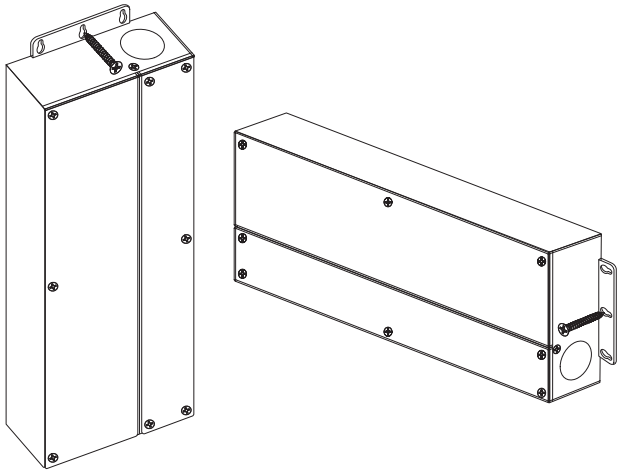


SIDE SLOTS

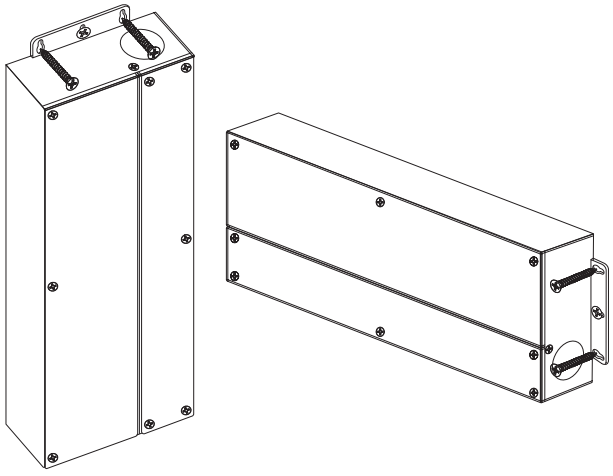


2. The QZ must be mounted into a stud for sufficient support, using either the center holes or the slots of each mounting tab

CENTER HOLE



SIDE SLOTS



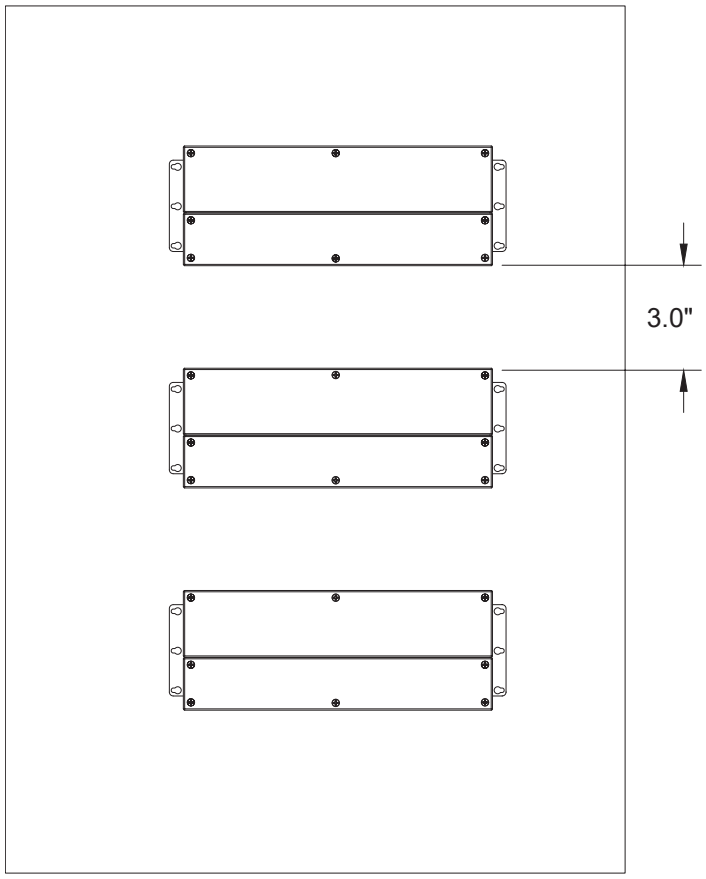
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Specification subject to change. Rev-05-04-26

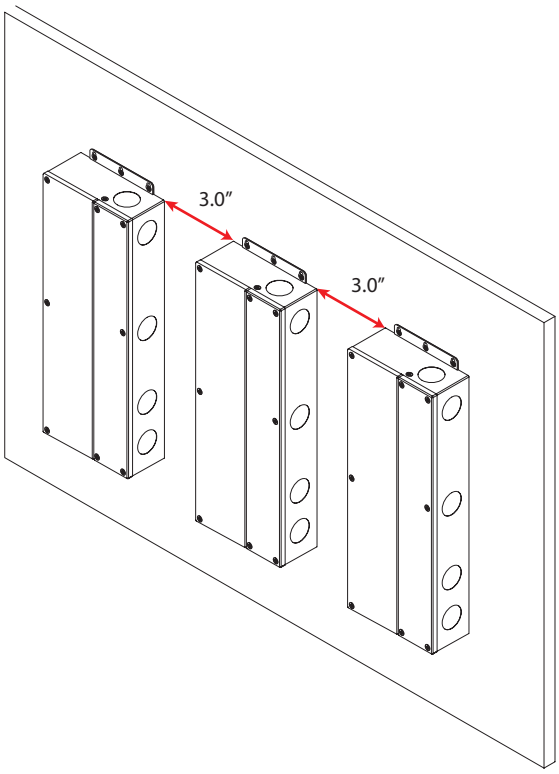
QZ-PRO-PH/0-10V

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

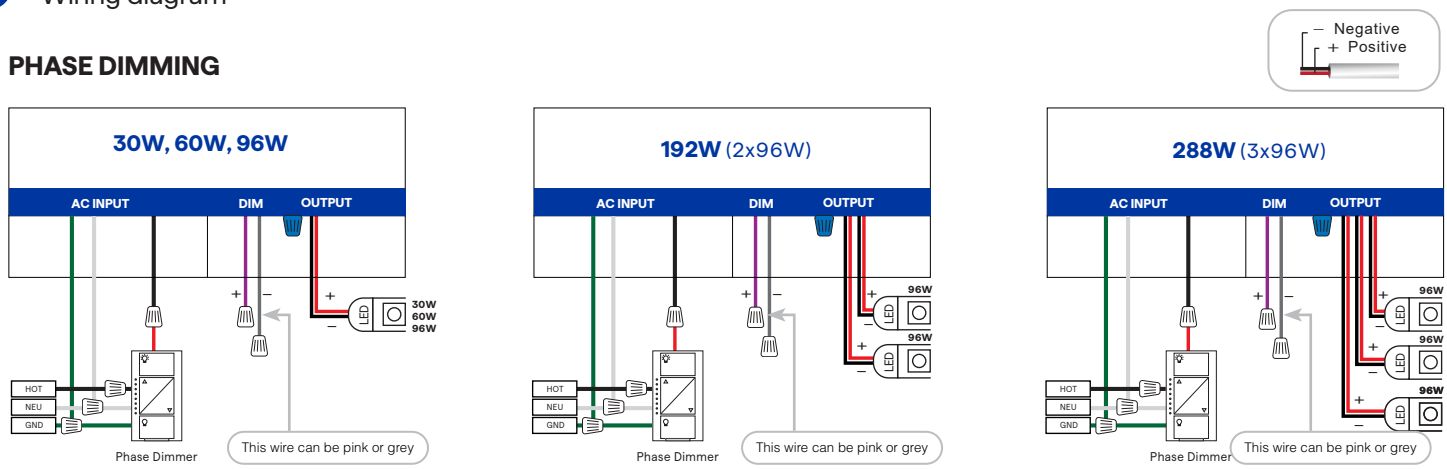
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QZ-PRO-PH/0-10V

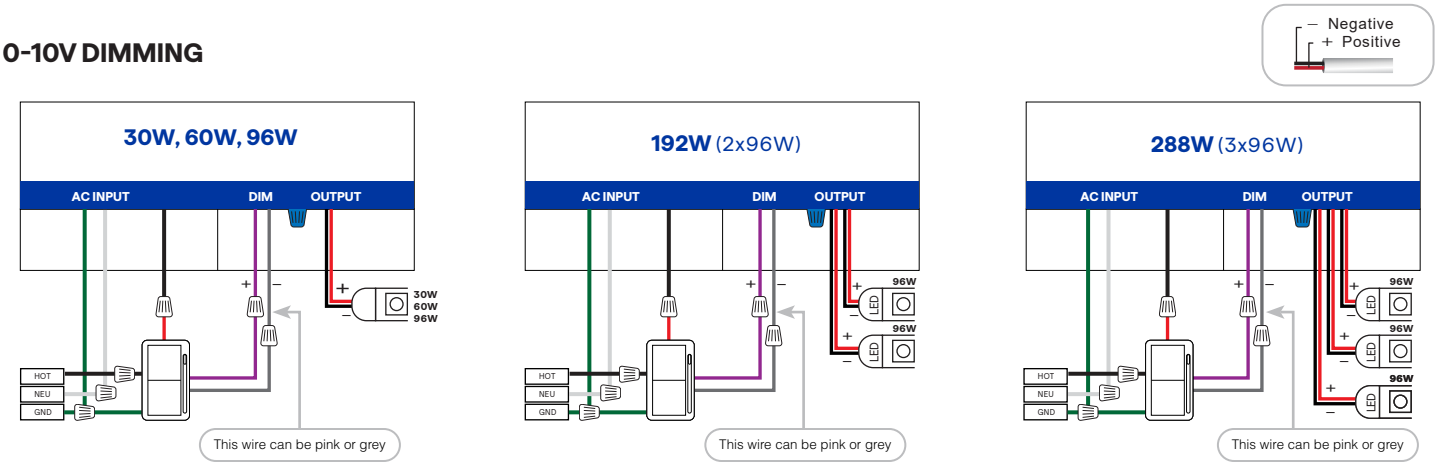
Installation Instructions

4 Wiring diagram

PHASE DIMMING

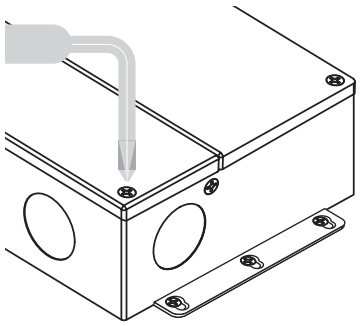


0-10V DIMMING

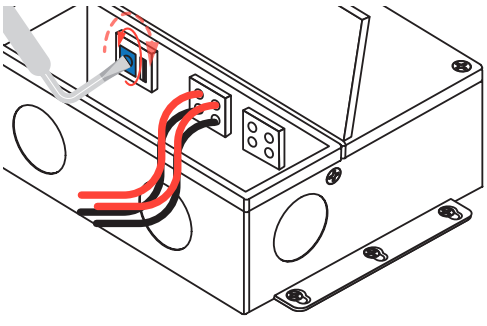


Wiring from power supply to light fixture must be two conductor cable.

VOLTAGE ADJUSTMENT



Remove the cover by loosening the Phillips-head fasteners.



Adjust output voltage using a flat-head Z-Wrench: rotate counterclockwise to decrease to 17 V, and clockwise to increase to 26 V.

NOTE: Intent is to supply 24V at load input. Increase up to 26V specifically is to mitigate voltage drop over longer wire distances. Supplying voltage greater than 24V can result in LED failure and void warranty.

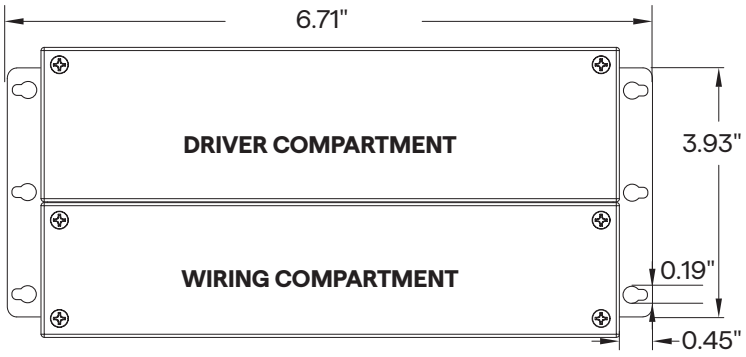
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QZ-PRO-PH/0-10V

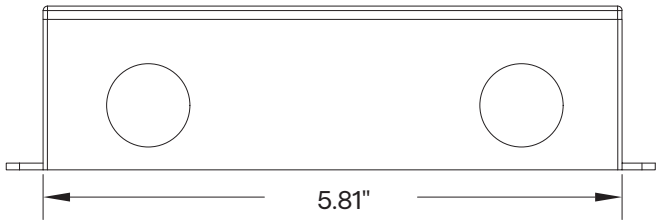
Installation Instructions

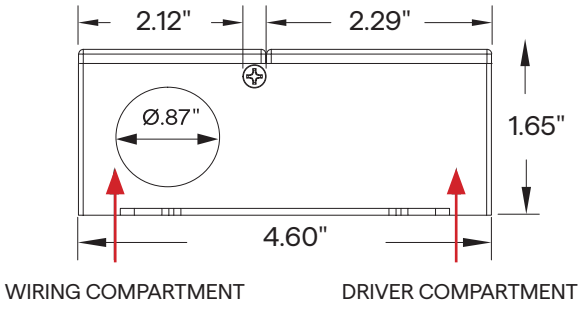
QZ 30W

TOP VIEW



WIRING COMPARTMENT VIEW





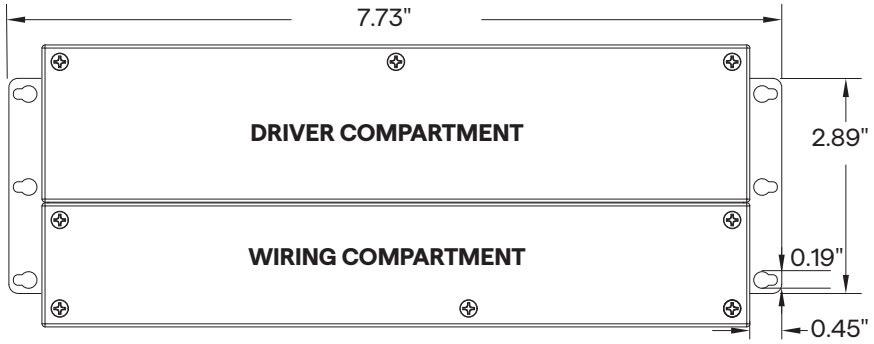
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QZ-PRO-PH/0-10V

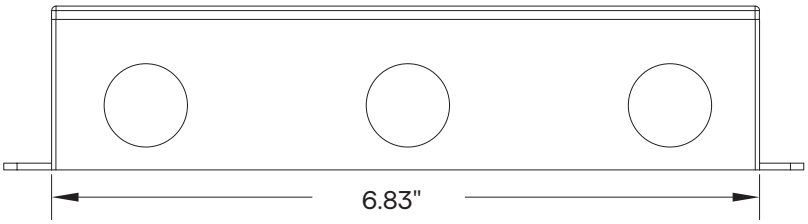
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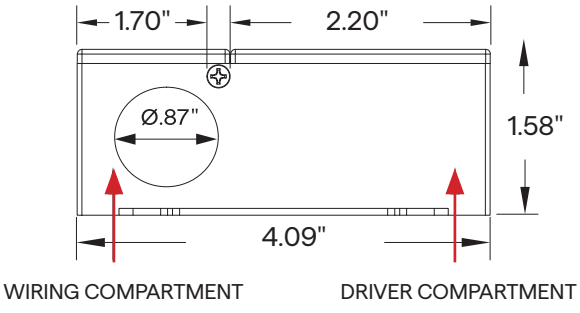
QZ 60W & 96W

TOP VIEW



WIRING COMPARTMENT VIEW





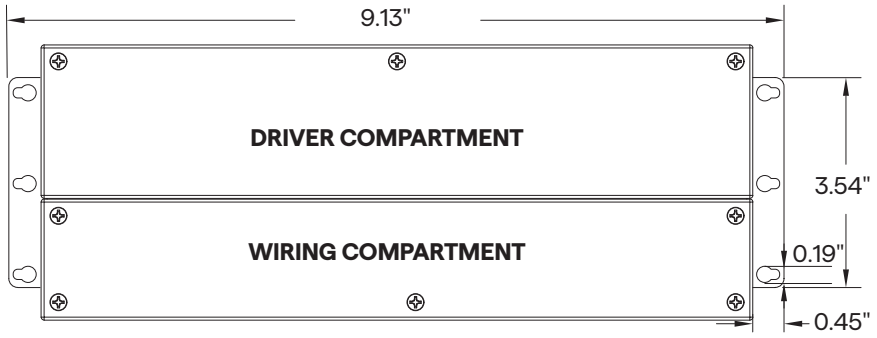
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QZ-PRO-PH/0-10V

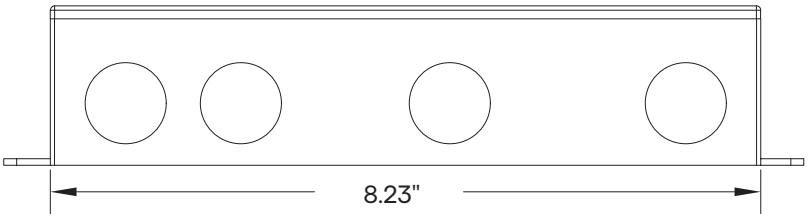
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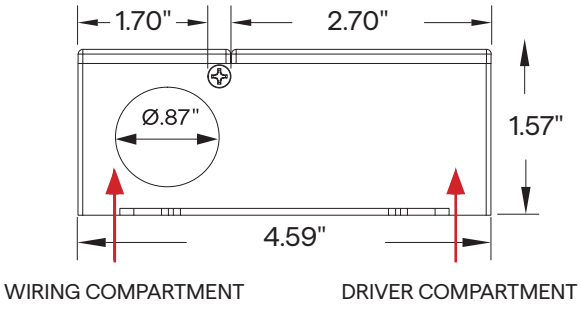
QZ 192W

TOP VIEW



WIRING COMPARTMENT VIEW





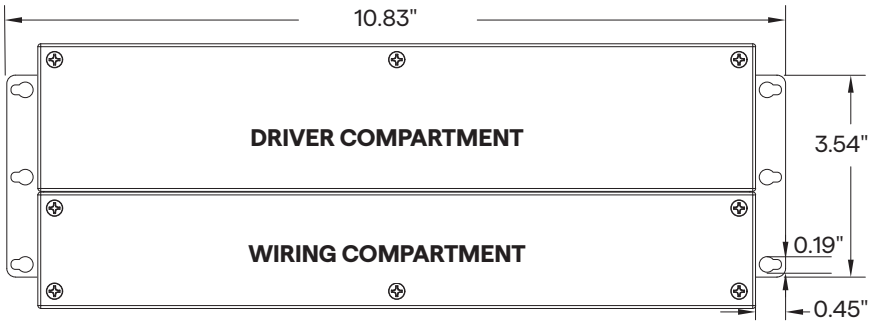
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QZ-PRO-PH/0-10V

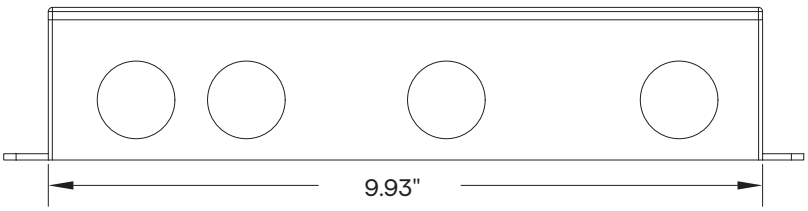
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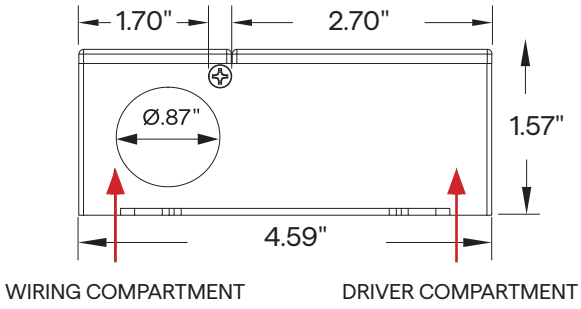
QZ 288W

TOP VIEW



WIRING COMPARTMENT VIEW





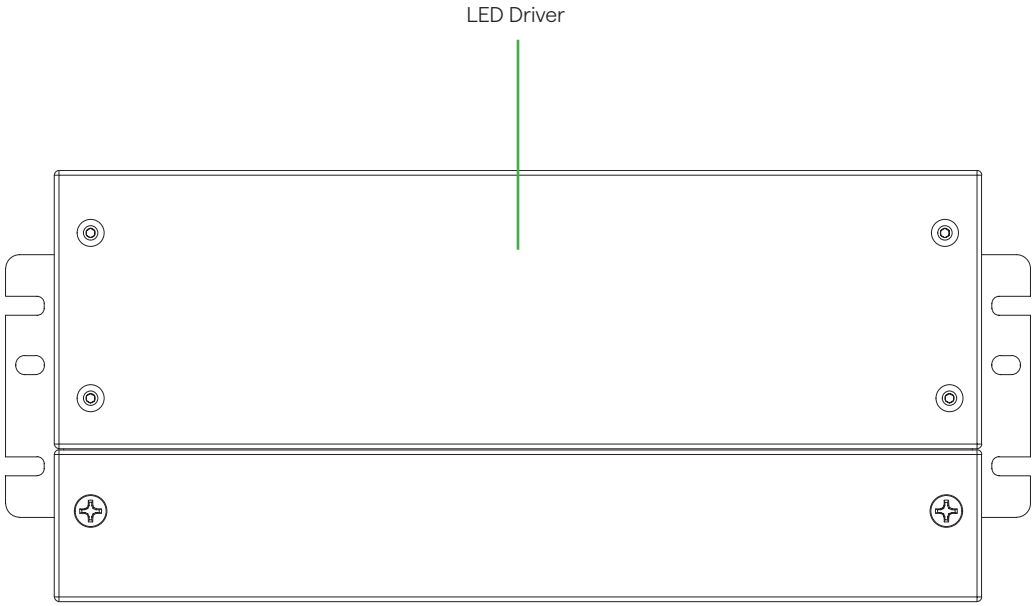
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MATERIAL RECYCLING

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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