QZLP

24V DC Low Profile Power Supply - 30W-60W



- Low profile versatile dimmable Class 2 LED power supply
- Can be controlled via phase (forward or reverse) or 0-10V dimming
- The Pulse Width Modulation (PWM) output provides smooth flicker-free dimming
- When using phase control, a dimmer with a neutral is recommended
- 24VDC constant voltage output
- Indoor use only

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE	5 CONTROL	6 COLOR	7 OPTIONS
QZLP		UNV	24V	PH/010	WH	

Sample Part Number: **QZLP-60W-UNV-24V-PH/010-WH-C&P-CON6**

1 PRODUCT

QZLP

2 WATTAGE

30W **60W**
25W **60W**

3 PRIMARY VOLTAGE

UNV	Universal
UNV	Universal

4 SECONDARY VOLTAGE

24V
24V

5 CONTROL

PH/010	Phase (forward or reverse) or 0-10V dimming
PH/010	Phase (forward or reverse) or 0-10V dimming

6 COLOR

WH	White
WH	White

7 OPTIONS

N/A	
C&P-BRL	Cord & Plug | Barrel
C&P-CON6	Cord & Plug | Connector 6"
C&P-CON24	Cord & Plug | Connector 24"
C&P-N/A	Cord & Plug
LP-BRL	Lutron Replacement Plug | Barrel
LP-CON6	Lutron Replacement Plug | Connector 6"
LP-N/A	Lutron Replacement Plug (RP-FDU-10-WH)

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
- Adjustable output voltage range: 21.5V - 25.5V
- Dimming range: 0.1% - 100%
- Dimming protocols:
  - Phase dimming: works with forward phase / leading edge, MLV, reverse phase / trailing edge, ELV, and TRIAC dimmers
  - 0-10V dimming
  - 1-10V dimming
  - 10V PWM
  - Potentiometer
- Consistent dimming curves across protocols
- Flicker-free dimming
- IP20 Rated
- Follows recommended practices of IEEE standard P1789 to mitigate flicker-induced health risks
- PWM (high frequency) output reduces visible flicker
- Suitable for dry and damp locations
- Suitable for indoor use
- Primary voltage - universal (110-277V)
- 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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VOLTAGE DROP CHART

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

VOLTAGE DROP

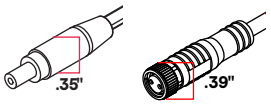
Distance from PS for 1% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	192	121	76	48	30	19	12	7	5
24	30	96	60	38	24	15	9	6	4	2
24	45	64	40	25	16	10	6	4	2	2
24	60	48	30	19	12	8	5	3	2	1

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

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

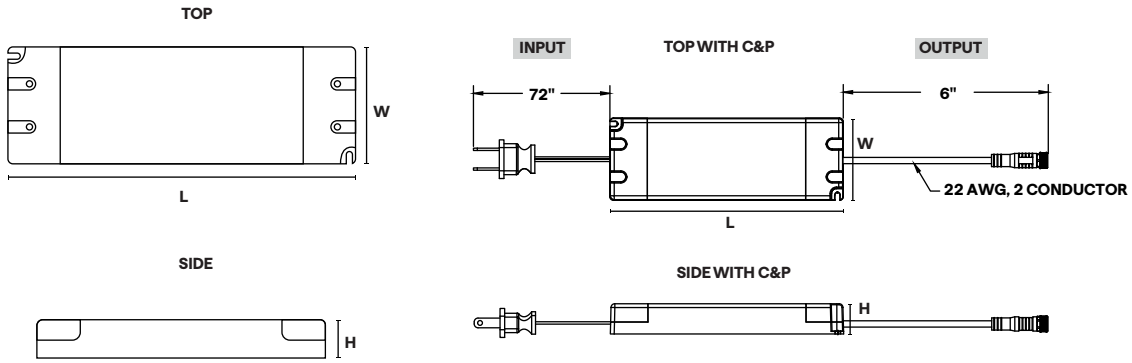
1 PRODUCT - DIMENSIONS

Wattage	Length (in)	Width (in)	Height (in)
25W, 30W	6.1	2.13	0.79
60W	7.0	2.4	0.95



Barrel 6"

Connector 6"
Connector 24"



2 TECHNICAL INFORMATION

Wattage	Primary Voltage	Secondary Voltage	Secondary Current
25W	100-277V	24VDC	1.04 A
30W	100-277V	24VDC	1.25 A
60W	100-277V	24VDC	2.5 A

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

QZLP

24V DC Low Profile Power Supply - 30W-60W

SPECIFICATIONS

Input	
Input Voltage (Vrms)	110-277V
Input Current, max (Arms)	0.9A @ 110V
Inrush Current, max* (Apk)	15A @ 277V
Input Frequency (Hz)	50/60
Input Power (W)	90

Output	
Output Voltage, nom (V)	24
Output Voltage Adjust Range	21.5V - 25.5V
Output Current (A)	60W, 2.5A @ 24V
Output Power (Wmax)	60W

Environmental	Min	Nom	Max
THD (%)	-	-	20
PF (%)	0.98	-	-
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

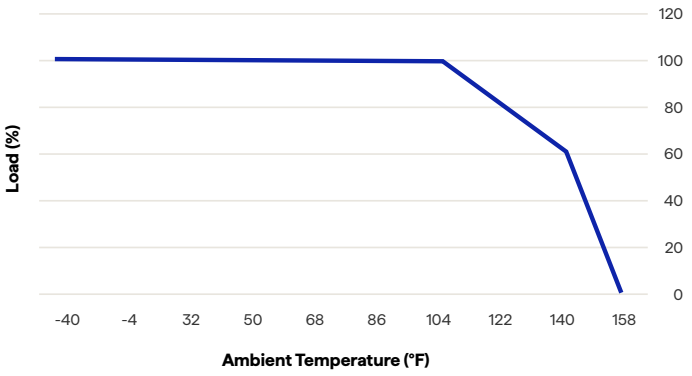
COMPLIANCE/SAFETY

- EMI/RFI
  - FCC Part 15B
- Certified
  - UL8750
  - UL1310

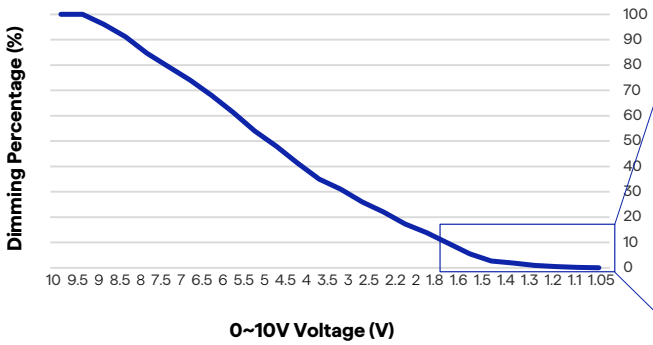
6 COLOR

White

Derating Curve

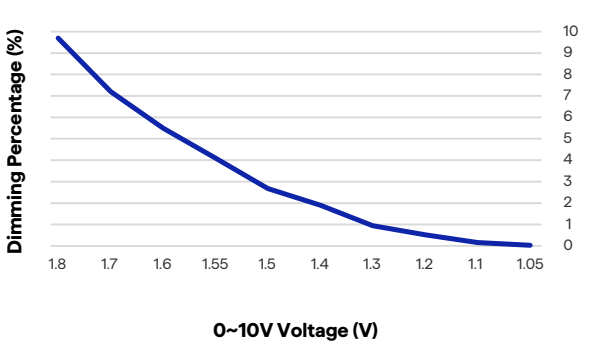


QZLP Dimming Curve



Exploded View

QZLP Dimming Curve

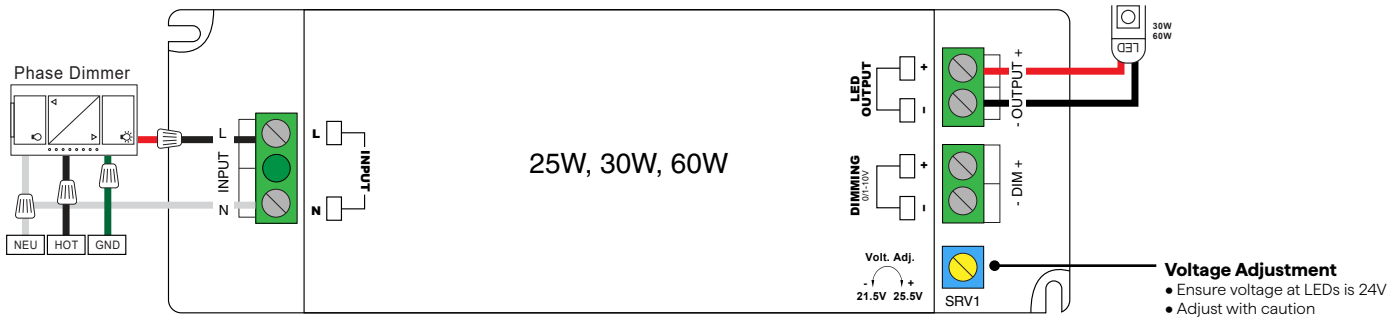


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QZLP

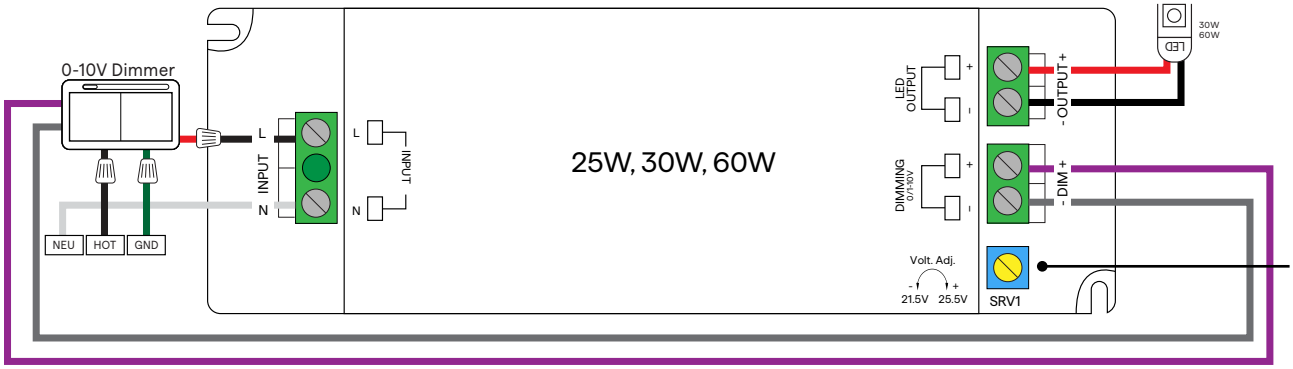
24V DC Low Profile Power Supply - 30W-60W

PHASE DIMMING



Voltage Adjustment
- Ensure voltage at LEDs is 24V
- Adjust with caution

0-10V DIMMING



Voltage Adjustment
- Ensure voltage at LEDs is 24V
- Adjust with caution

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

COMPATIBLE WIRING ACCESSORIES

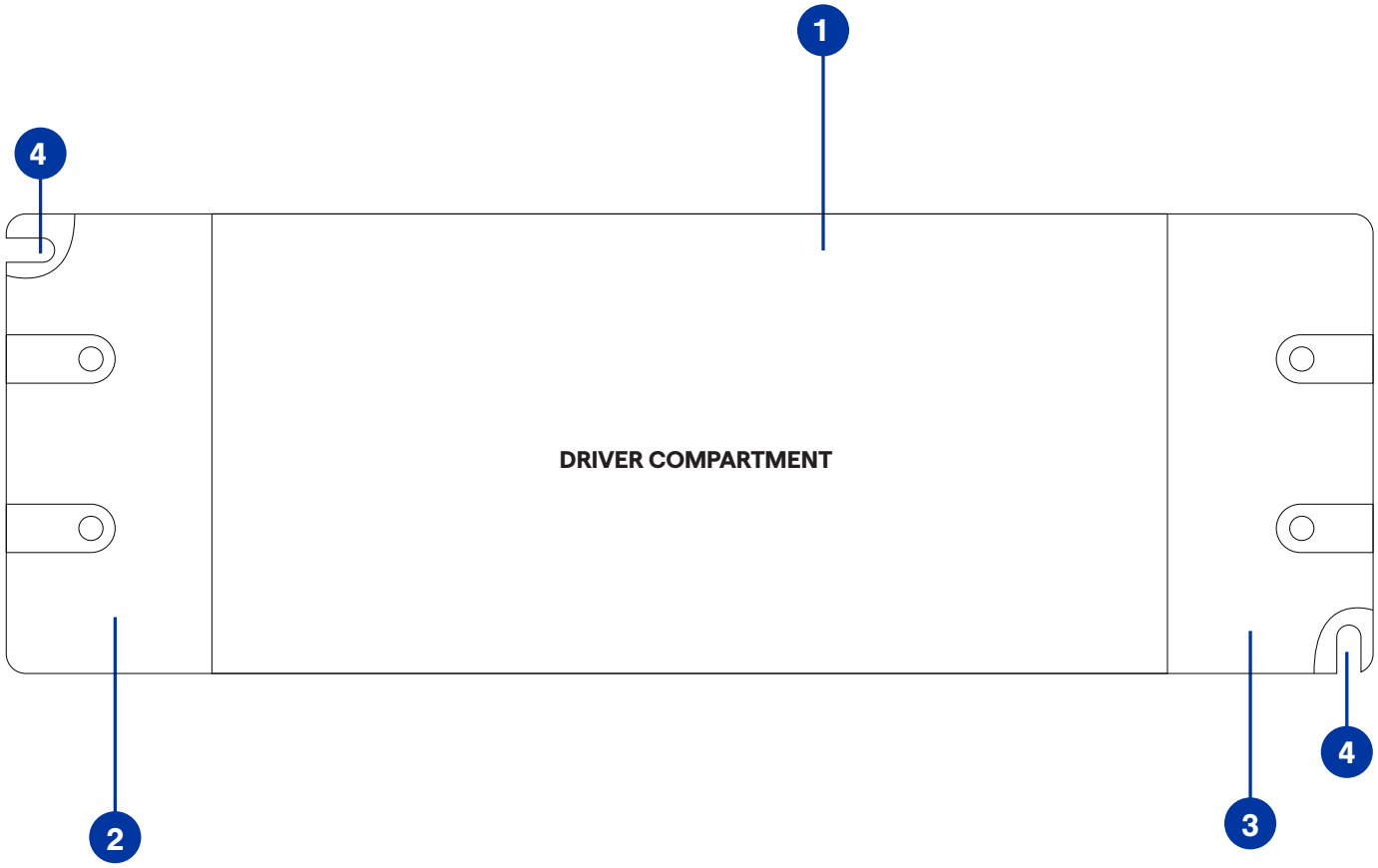
Q-mini-J	CON120-EXT	CON M - BARREL F	CON FOUR-FER	BARREL FOUR-FER	BARREL-EXT	BARREL M - CON F
						
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)	10ft Con cable extender DRY/DMP/WET	Male con to barrel cable adaptor DRY/DMP	Splits lead from one to four LED Con connectors DRY/DMP/WET	Splits lead from one to four LED Barrel connector fixtures, DRY/DMP	8ft barrel cable extender DRY/DMP	Male Barrel to Con cable adaptor DRY/DMP

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QZLP

Installation Instructions

TOP VIEW



QZLP Components

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

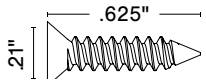
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QZLP

Installation Instructions

Required Hardware

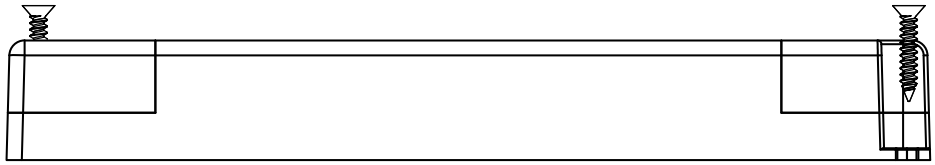
- #4 Flat head screw (not included)



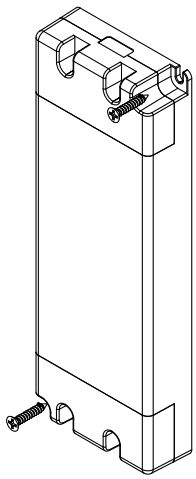
Mounting

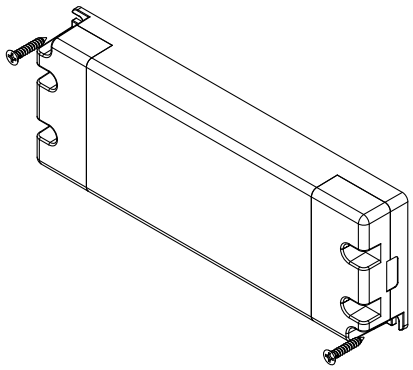
1. The QZLP can be mounted either vertically or horizontally, utilizing the supplied screws and the mounting tabs on the bottom of the enclosure

SIDE SLOT



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



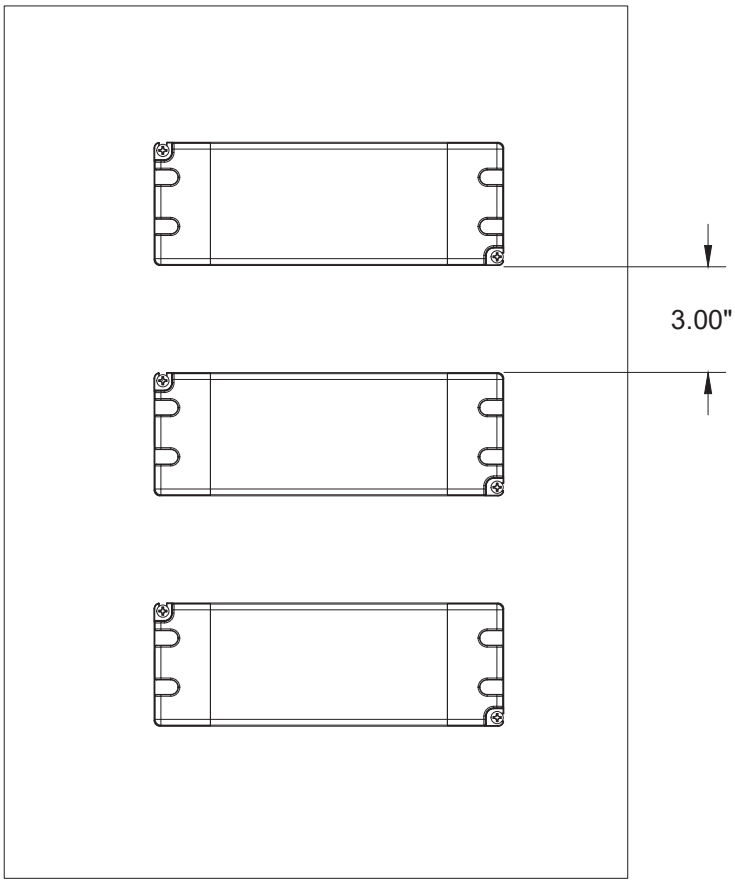


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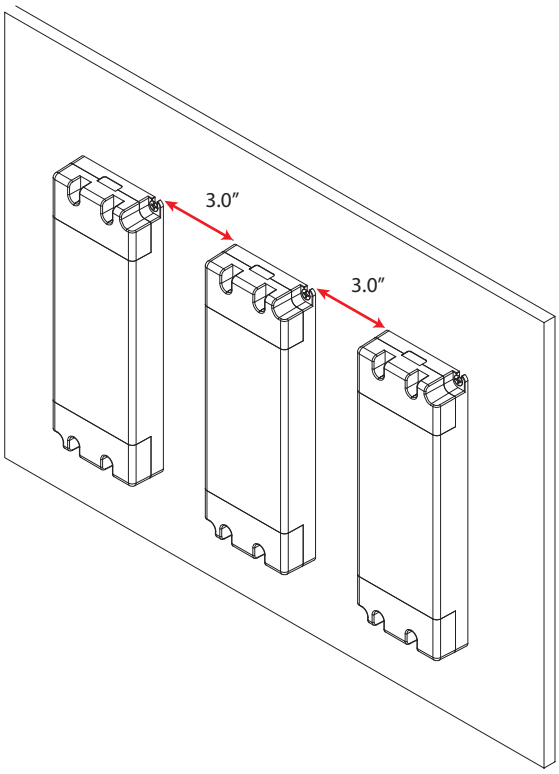
QZLP

Installation Instructions

3 When installing multiple QZLP 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

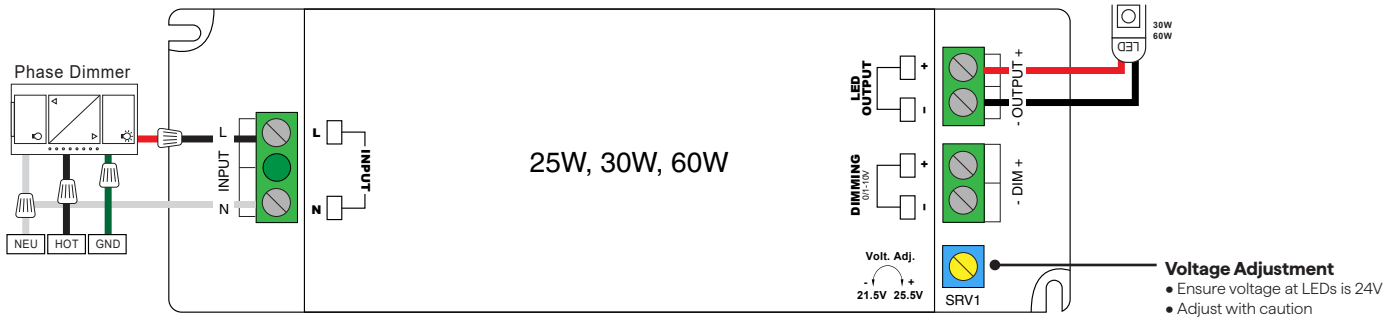
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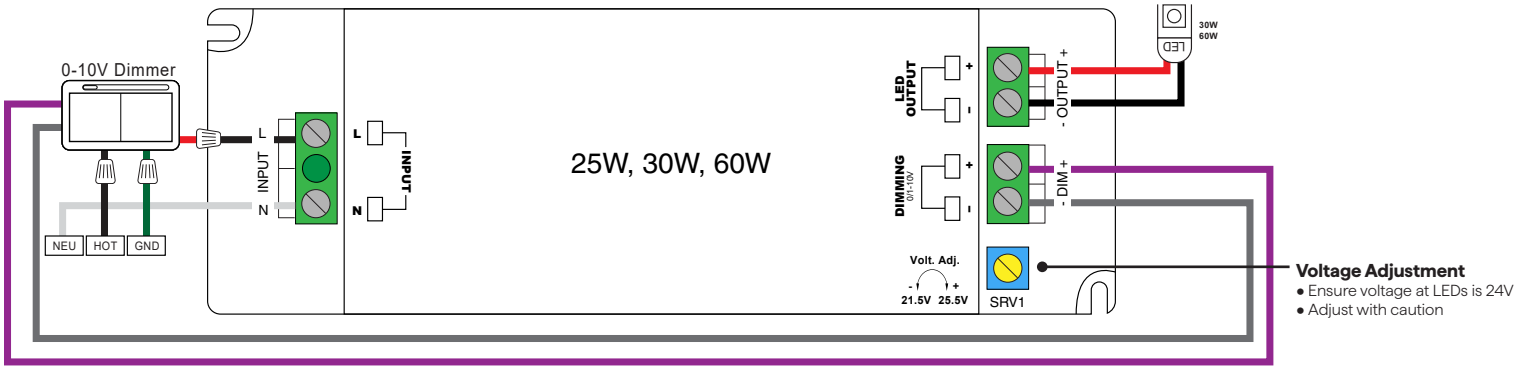
Installation Instructions

4 Wiring diagram

Phase Dimming



0-10v Dimming



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

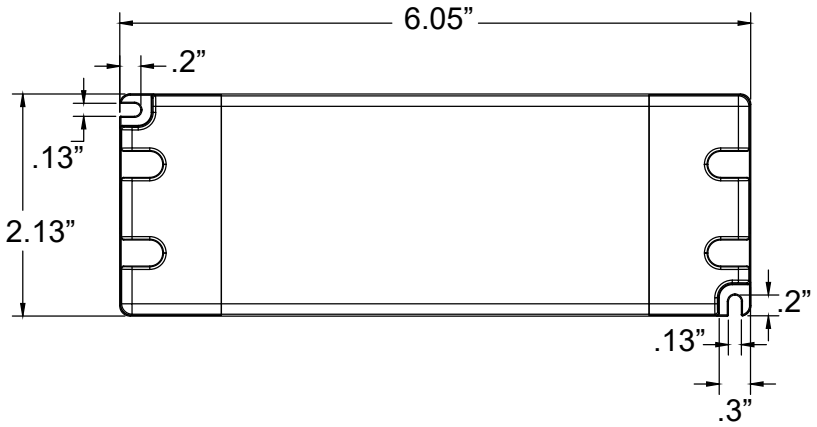
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QZLP

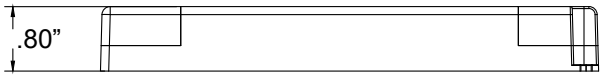
Installation Instructions

QZLP 30W

TOP VIEW

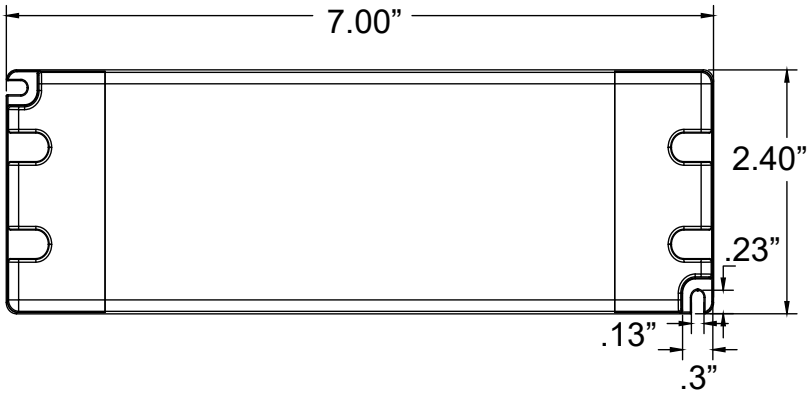


SIDE VIEW

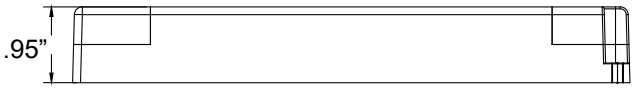


QZLP 60W

TOP VIEW



SIDE VIEW



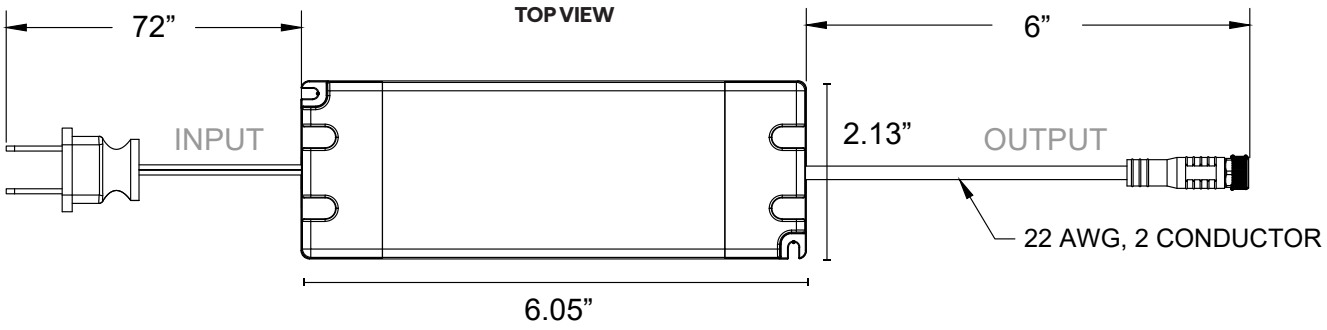
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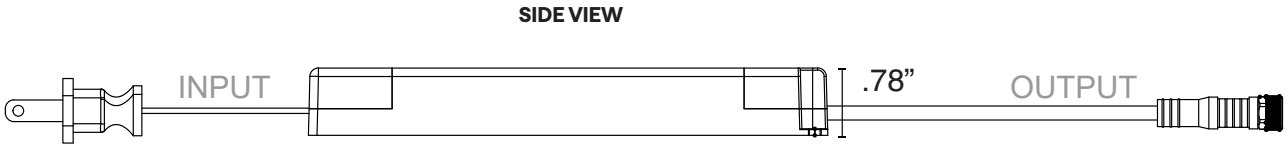
Specification subject to change. Rev-03-08-24

QZLP

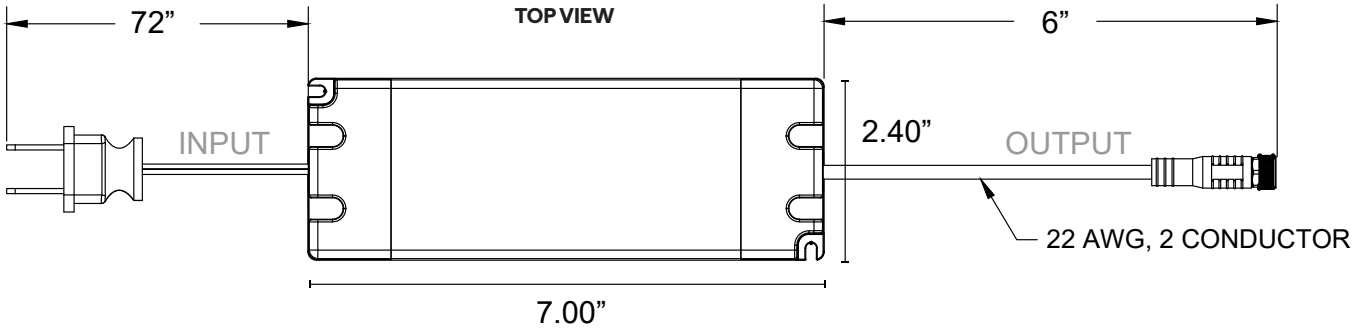
Installation Instructions

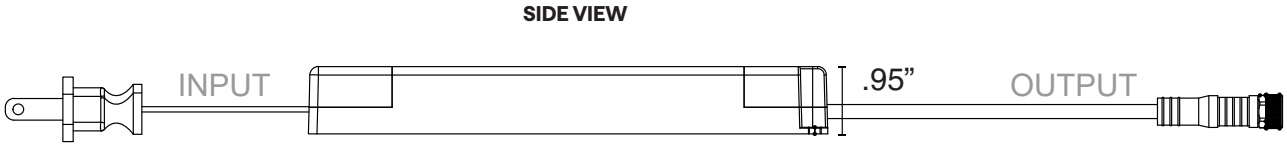
QZLP CORD & PLUG 25W





QZLP CORD & PLUG 60W





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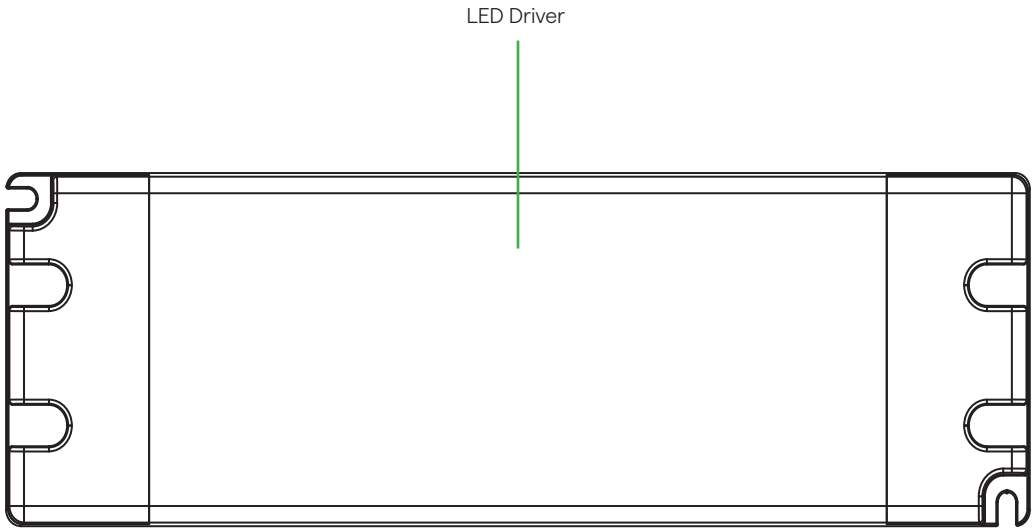
Specification subject to change. Rev-03-08-24

MATERIAL RECYCLING

QZLP

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.



QZLP-60W shown

E

LED Drivers

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