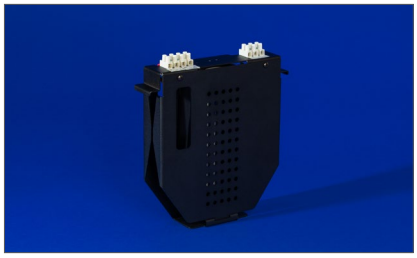
Q-SET+QZ-PH/0-10V

24V DC Power Supply - 30W-96W



- Direct burial and outdoor rated electronic power supply to be installed in our Q-VAULT-5 enclosure
- Versatile Class 2 LED driver with dimmable or non-dimmable options
- Can be controlled via phase dimming (forward or reverse) or 0-10V dimming
- When using phase control, a dimmer with a neutral is recommended
- 24VDC constant voltage output and is available in 30W, 60W, and 96W
- QTL proprietary dimming curve
- Controllable with phase or 0-10V dimming
- Control LED channel
- Fully potted driver(s) for moisture resistance
- Suitable for dry, damp, and wet locations
- Suitable for use with submersible luminaire

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE	5 CONTROL	6 OPTIONS
Q-SET+QZ		UNV	24V	PH/010	

Sample Part Number: **Q-SET+QZ-60W-UNV-24V-PH/010-PS**

1 PRODUCT

Q-SET+QZ

2 WATTAGE

30W
60W
96W

3 PRIMARY VOLTAGE

UNV Universal (120-277V)

4 SECONDARY VOLTAGE

24V

5 CONTROL

PH/010 Phase or 0-10V dimming

6 OPTIONS

N/A
PS Pool and Spa

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

- 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
- Follows recommended practices of IEEE standard P1789 to mitigate flicker-induced health risks
- Suitable for dry, damp and wet locations
- Suitable for direct burial use
- Not for installation to conduit extending directly to an underwater pool light forming shell. In line Pool and Spa rated junction box required.
- Suitable for use with submersible luminaries
- Primary voltage - universal (110-277V)
- Operating temperature range: -40˚F to +122˚F
- UL, cUL listed
- Type HL rated
- Compliant to FCC Part 15B
- 5 year warranty
- CSA #239924
- Low Voltage Lighting Systems
  - CSA Class 3426-04 and Class 3426-94
  - CSA Standard C22.2 No. 250.0-08 - Luminaires
  - ANSI/UL Standard 2108 - Low Voltage Lighting System
- Landscape Lighting Systems
  - CSA Class 3425-15 and Class 3425-95
  - CSA Standard C22.2 No. 250.7-07 - Extra-Low Voltage Landscape Lighting Systems
  - ANSI/UL Standard 1838 - Low Voltage Landscape Lighting Systems
- Hydromassage (Pool and Spa)
  - CSA Class 3425-46 and class 3425-96
  - ANSI/UL Standard 379 - Power Units for Fountain, Swimming Pool, and Spa Luminaires

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Q-SET+QZ-PH/0-10V

24V DC Power Supply - 30W-96W

VOLTAGE DROP CHART

This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved
Wiring from power supply to light fixture must be two conductor cable

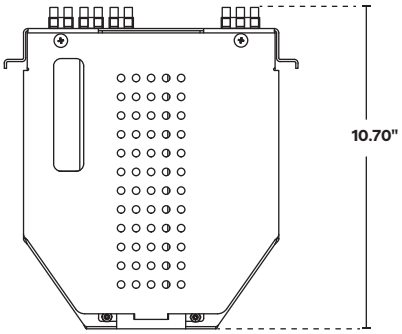
VOLTAGE DROP

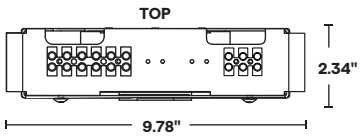
Distance from PS for 1% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	192	121	76	48	30	19	12	7	5
24	30	96	60	38	24	15	9	6	4	2
24	45	64	40	25	16	10	6	4	2	2
24	60	48	30	19	12	8	5	3	2	1
24	80	36	23	14	9	6	4	2	1	1
24	96	30	19	12	7	5	3	2	1	1

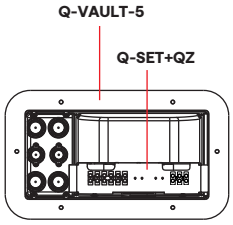
Distance from PS for 3% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	577	362	228	143	90	57	36	22	14
24	30	288	181	114	72	45	28	18	11	7
24	45	192	121	76	48	30	19	12	7	5
24	60	144	91	57	36	23	14	9	6	4
24	80	108	68	43	27	17	11	7	4	3
24	96	90	57	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







Must be purchased with Q-VAULT-5
Install only one Q-SET+QZ per Q-VAULT-5

2 TECHNICAL INFORMATION

Size	Primary Voltage	Secondary Voltage	Secondary Current
30W	110-277V	24VDC	1.25A
60W	110-277V	24VDC	2.5A
96W	110-277V	24VDC	4A

If any of the primary or secondary wiring is done outside of conduit, please consult factory for proper connectors and wire to maintain IP68 rating and warranty.

To maintain Class 2 wiring compliance, do not exceed 60 watts at 12VDC or 96 watts at 24VDC per fixture feed. Failure to do so will void fixture warranty and create a fire hazard.

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Q-SET+QZ-PH/0-10V

24V DC Power Supply - 30W-96W

HOUSING

- Dimensions: 10.70"L x 9.78"W x 2.34"D
- Q-VAULT-5 enclosure can fit up to one Q-SET+QZ
- Q-VAULT-5 is IP68 rated
- Housing for direct burial fixtures shall be IP68 Rated, with all sealing materials supplied by the manufacturer
- Housing for direct burial fixtures shall be rated for burial in soil, gravel and concrete

PERFORMANCE

- Power supply shall be rated for outdoor and direct burial use in Q-VAULT-5 IP68 Listed direct burial enclosure
- Fully rated to operate low voltage load at listed wattage (No Derating Required)
- Limit voltage regulation to 5% or less of rated output voltage
- Universal input range of 120-277 Vrms
- Terminal blocks shall be made of tin plated copper with a voltage rating of 300V and a current rating of 40A
- Live tested by manufacturer to ensure proper operation
- Rated for:
  - CSA Class 3425-15 and Class 3425-95 - Landscape Lighting System Components
  - CSA Class 3426-04 and Class 3426-94 - Low Voltage Lighting Systems
  - CSA Class 3425-46 and Class 3425-96 - Hydromassage

SPECIFICATIONS

Input			
Input Voltage (Vrms)	110-277V		
Input Current, max (Arms)	0.98A @ 110V		
Inrush Current, max* (Apk)	43A@277V		
Input Frequency (Hz)	50/60		
Input Power (W)	108		
Output			
Output Voltage, nom (V)	24		
Output Current (A)	30W-1.25A, 60W-2.5A, 96W - 4A @ 24V		
Output Power (Wmax)	96W		
Environmental	**Min**	**Nom**	**Max**
THD (%)	-	-	20
PF (%)	0.94	-	-
Working Temp (°F)	-	-	122

*-200us event

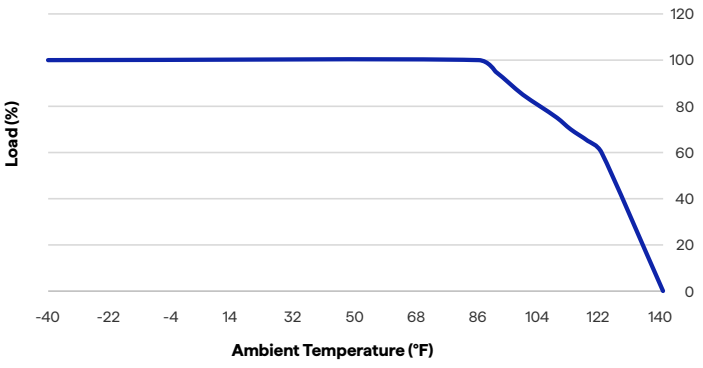
PROTECTIONS

- 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

- EMI Spec
  - FCC 47 CFR Part 15 Subpart B
- CSA Certified
  - UL-2108
  - UL-8750
  - UL-379
  - CSA C22.2 No 250.7-07
  - CSA C22.2 No 250.0-08

Derating Curve

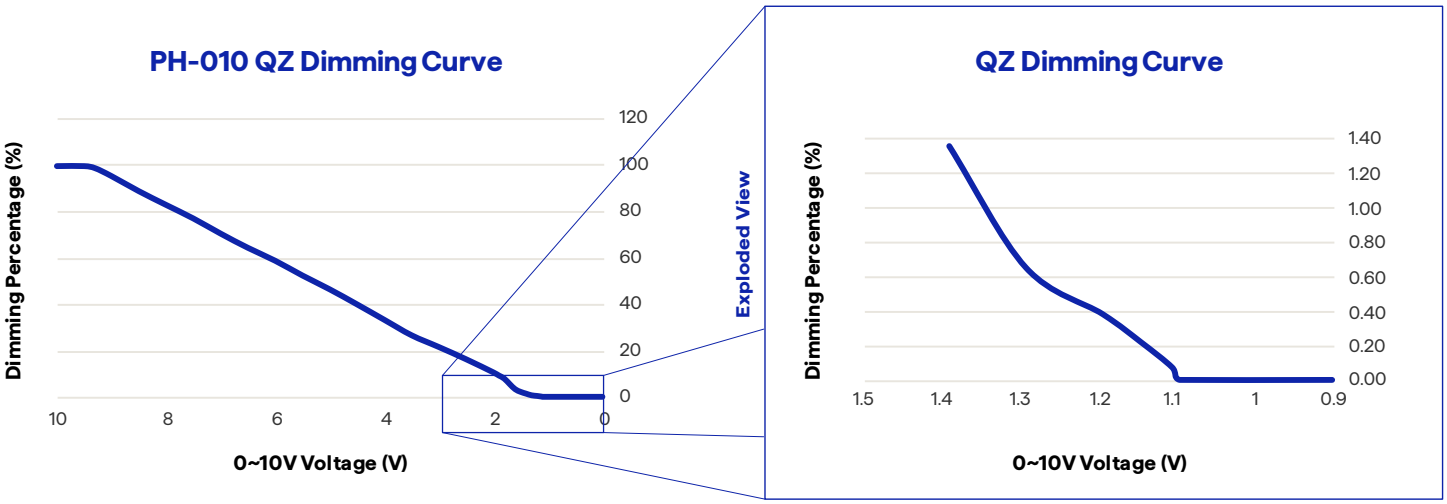


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Specification subject to change. **Rev-08-21-26**

Q-SET+QZ-PH/0-10V

24V DC Power Supply - 30W-96W

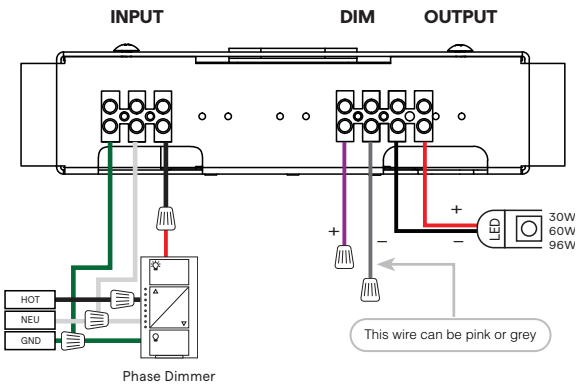


WIRING DIAGRAM

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

Phase Dimming

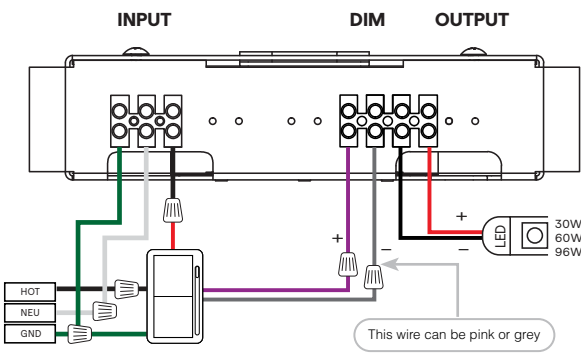
30W, 60W, 96W



Phase Dimmer

0-10V Dimming

30W, 60W, 96W



COMPATIBLE DIRECT BURIAL PRODUCTS

Q-VAULT	Q-CLIK	Q-WIRE	Q-TWO	QW-STRIPPER
				
IP68 wet listed direct burial enclosure for one Q-SET-QZ	Watertight fitting for entryway in and out of QTL housing	Highly efficient, long-lasting wire	Underground low voltage UF splice kit	UF cable outer jacket strip tool

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Specification subject to change. Rev-08-21-26