



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

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

1	2	3	4
PRODUCT	WATTAGE	PRIMARY VOLTAGE	SECONDARY VOLTAGE
QZ-S	96W	UNV Universal (120-277V)	24V

5	6
CONTROL	COLOR
PH/010 Phase or 0-10V dimming	WH White

## COMPATIBLE LEDS

### STATIC WHITE

SW24/1.5-4.0	✓
SW24/5.0, SW-HE, SW-HE+	✓
SD-SW24/1.0-4.0	✓
SD-SW24/6.0	✓
SW-1A	
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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## VOLTAGE DROP CHART

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

VDC	Load (W)	Distance from PS for 5% Voltage Drop								
		10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	961	605	380	239	150	95	60	37	24
	30	481	302	190	120	75	47	30	19	12
	60	240	151	95	60	38	24	15	9	6
	80	180	113	71	45	28	18	11	7	4
	96	150	95	59	37	24	15	9	6	4

VDC	Load (W)	Distance from PS for 3% Voltage Drop								
		10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	577	363	228	143	90	57	36	22	14
	30	288	181	114	72	45	28	18	11	7
	60	144	91	57	36	23	14	9	6	4
	80	108	68	43	27	17	11	7	4	3
	96	90	57	36	22	14	9	6	4	2

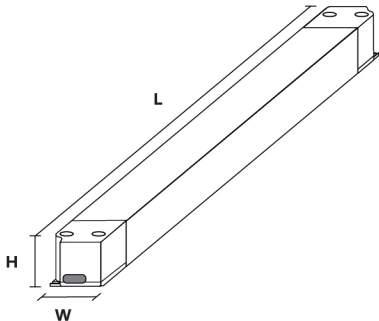
VDC	Load (W)	Distance from PS for 1% Voltage Drop								
		10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	192	121	76	48	30	19	12	8	5
	30	96	61	38	24	15	10	6	4	2
	60	48	30	19	12	8	5	3	2	1
	80	36	23	14	9	6	4	2	1	1
	96	30	19	12	8	5	3	2	1	1

## 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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## 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

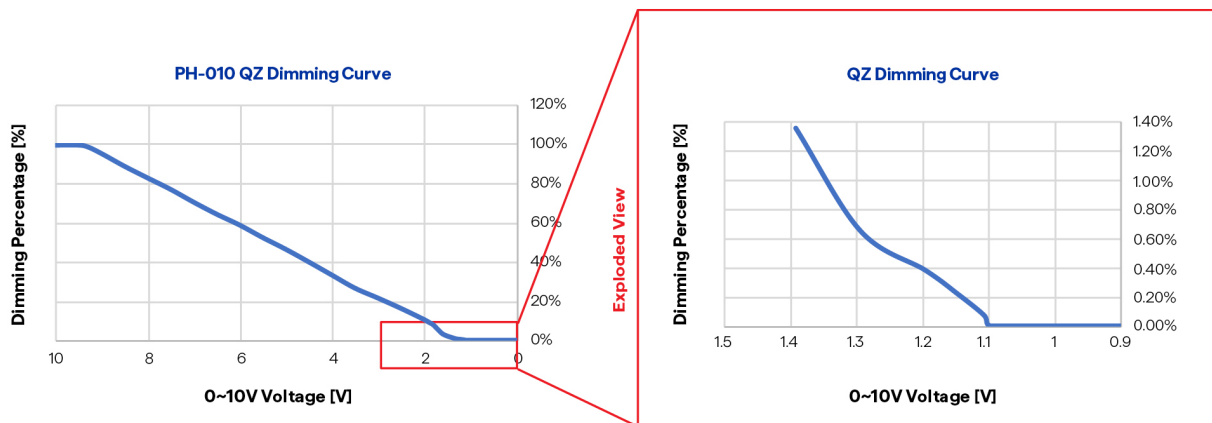
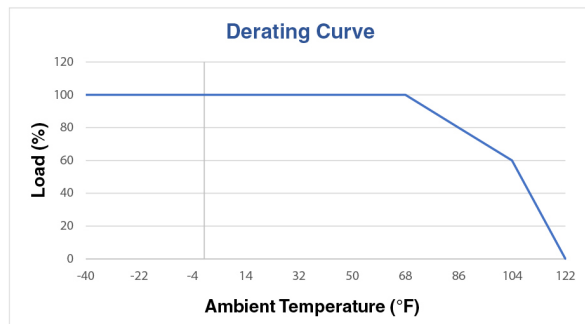
- Short Circuit Protection (SCP)
- Over Loading Protection (OLP)
- Over Temperature Protection (OTP)
- I/P-O/P: 1.88KVAC
- I/P-O/P: 100MΩ / 500VDC / 77°F / 70%RH

## 6 COLOR



## COMPLIANCE

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

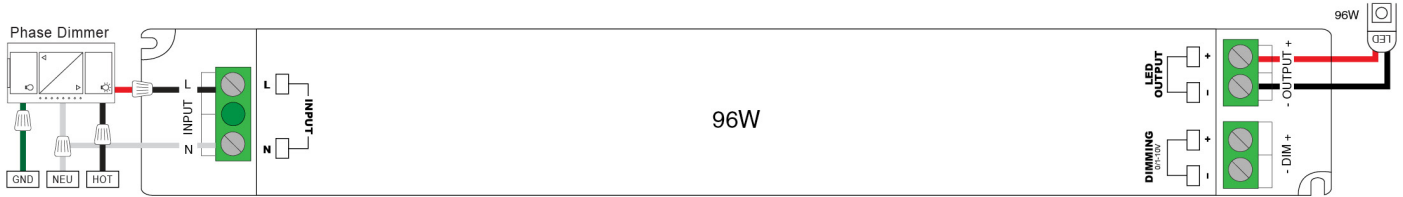




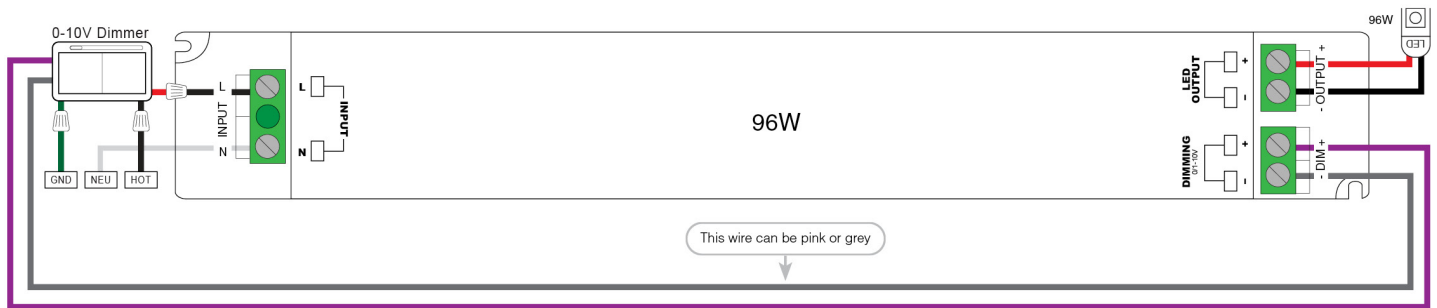
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## PHASE DIMMING






## 0-10V DIMMING



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## COMPATIBLE WIRING ACCESSORIES

<b>Q-mini-J</b>  UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)	<b>CON FOUR-FER</b>  Splits lead from one to four LED Con connectors DRY/DMP/WET	<b>CON120-EXT</b>  10ft Con cable extender DRY/DMP/WET
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## COMPATIBLE CONTROL ACCESSORIES

### SCENE APP DONGLE



Wi-Fi or Bluetooth Connectivity