



## QZ-DW

24V DC Dynamic White LED Driver for Warm Dim Applications - 96W



- Designed for dual circuit, three-wire LED strips in warm dim applications
- Allows selection of the appropriate light by transitioning from cooler white to warm dim lower level
- Can be controlled via forward or reverse phase or 0-10V dimming
- Pulse Width Modulation (PWM) output for smooth flicker-free dimming
- Dimmer with a neutral is recommended for best performance when using phase control
- Universal primary input and provides a 24VDC output
- Capacity of 96 watts
- Listed for interior or exterior use

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

Sample Part Number: QZ-DW-96W-UNV-24V-PH/010-BK

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

5	6
CONTROL	COLOR
PH/010 Phase or 0-10V dimming	BK Black Powder Coat Finish

## 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
- Dimming range: 0.1% - 100%
- Dimming:
  - Phase dimming: works with forward phase / leading edge, MLV and Reverse phase / trailing edge, ELV, TRIAC dimmers
  - 0-10V dimming
  - 1-10V dimming
  - 10V PWM
  - Potentiometer
- PWM (high frequency) output reduces visible flicker
- WET listed
- Only compatible with DW and DW-HE light engines
- 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 47 CFR Part 15 Subpart B
- 5 year warranty



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VOLTAGE DROP CHART

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

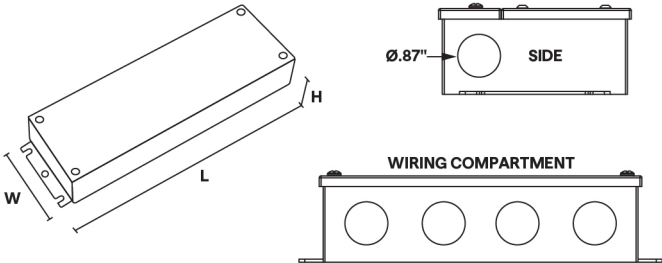
VDC	Load (W)	Distance from PS for 5% Voltage Drop								
		10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	961	605	380	239	150	95	60	37	24
	30	481	302	190	120	75	47	30	19	12
	60	240	151	95	60	38	24	15	9	6
	80	180	113	71	45	28	18	11	7	4
	96	150	95	59	37	24	15	9	6	4

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

Size	Length (in)	Width (in)	Height (in)
96W	8.60	4.92	1.63



2 TECHNICAL INFORMATION

Wattage	Primary Voltage	Secondary Voltage	Secondary Current
96W	110-277V	24VDC	2x2 A

NOTE: Only compatible with DW and DW-HE light engines



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### SPECIFICATIONS

Input	
Input Voltage (Vrms)	110-277V
Input Current, max (Arms)	3.3A @ 110V
Inrush Current, max* (Apk)	54A@277V
Input Frequency (Hz)	50/60
Input Power (W)	108

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

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

### 6 COLOR

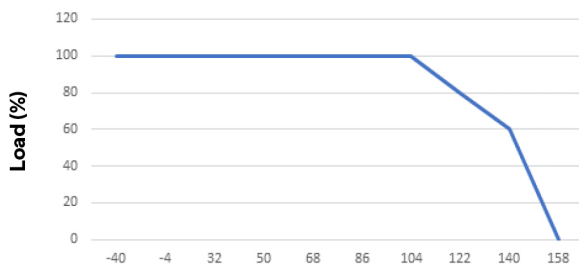


Black Powder  
Coat Finish

### COMPLIANCE

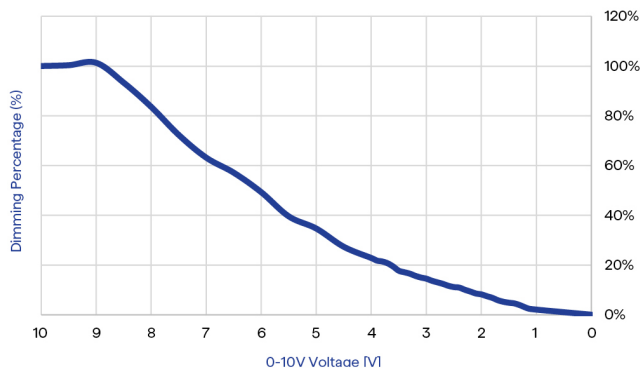
- EMI/RFI
  - FCC 47 CFR Part 15 Subpart B
- Certified
  - UL8750

Derating Curve

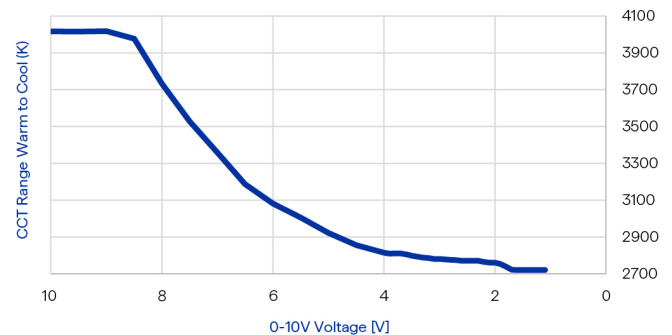


Ambient Temperature (°F)

PH-010 QZ Dimming Curve



CCT Dimming curve

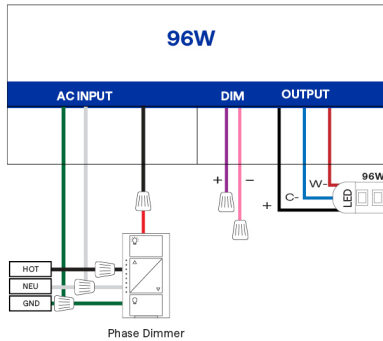




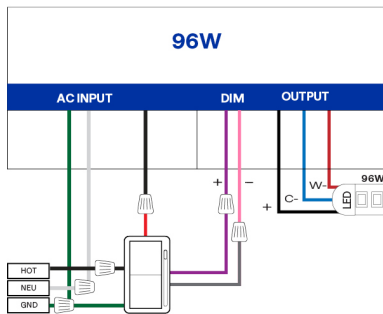
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### PHASE DIMMING



### 0-10V DIMMING



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

### COMPATIBLE WIRING ACCESSORIES

#### 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