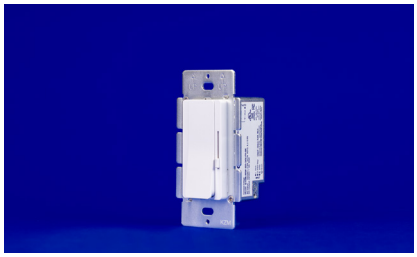
Q-DIM

24V DC Power Supply - 60W-96W



- Integrated dimmer and power supply consolidates into one location, and speeds installs
- No special hardware required: fits a standard J-box and works with standard wall plates
- Dims to 1% with flicker-free performance at every dim level
- Adjustable potentiometer allows output to range between 24–26V to compensate for voltage drop on longer runs
- Operating range -40°F to +140°F to perform in hot and cold environments
- UL listed, FCC Part 15B and RoHS compliant to meet more project standards

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE	5 CONTROL	6 COLOR
Q-DIM		120	24V	PWM	

Sample Part Number: **Q-DIM-60W-120-24V-PWM-WH**

1 PRODUCT

Q-DIM	

2 WATTAGE

60W	
96W	

3 PRIMARY VOLTAGE

120	120V

4 SECONDARY VOLTAGE

24V	

5 CONTROL

PWM	PWM dimming

6 COLOR

WH	White (Standard)
BK	Black

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
- Adjustable output voltage: 24-26V
- PWM Dimming:
  - Flicker-free dimming
  - PWM (high frequency) output reduces visible flicker
- Suitable for dry and damp locations
- Suitable for indoor use
- Rated for single gang application only
- Primary voltage - 120V
- Wide operating temperature range: -40˚F to +140˚F
- UL, cUL listed
- Compliant to FCC Part 15B

5 year warranty

© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

Q-DIM

24V DC Power Supply - 60W-96W

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/

Integrated dimmer and power supply with adjustable potentiometer. Output voltage is adjustable from 24V to 26V via the potentiometer to compensate for voltage drop on longer runs. Installer must measure voltage at the fixture and adjust the potentiometer to deliver 24V.

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

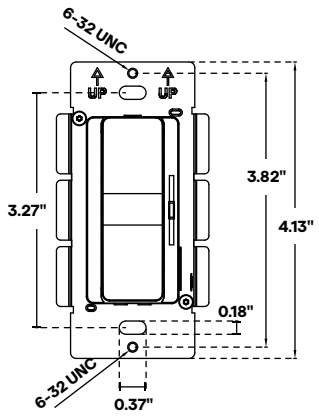
VOLTAGE DROP — 26V Source

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

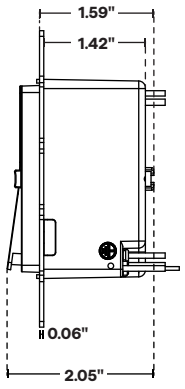
Distance from PS for 3% Voltage Drop										
VDC	Load (W)	Wire Gauge (AWG)								
		10	12	14	16	18	20	22	24	26
24	15	2360	1484	934	587	369	232	146	92	58
24	30	1180	742	467	293	185	116	73	46	29
24	45	787	495	311	196	123	77	49	31	19
24	60	590	371	233	147	92	58	37	23	14
24	80	442	278	175	110	69	44	27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

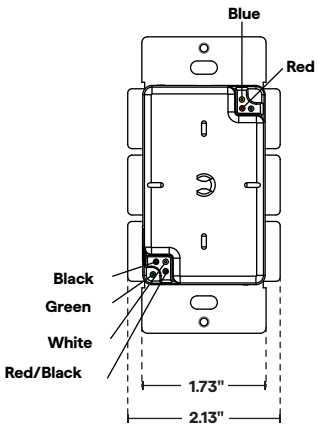
1 PRODUCT - DIMENSIONS



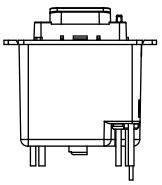
Front View



Side View



Back View



Side View

© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

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

Q-DIM

24V DC Power Supply - 60W-96W

2 TECHNICAL INFORMATION

Wattage	Primary Voltage	Secondary Voltage	Secondary Current
60W	120V	24VDC	2.5 A
96W	120V	24VDC	1x4 A

SPECIFICATIONS

Input	
Input Voltage (Vrms)	120V
Input Current, max (Arms)	0.9A @ 120V
Inrush Current, max* (Apk)	50A @ 120V
Input Frequency (Hz)	60
Input Power (W)	108

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

Environmental	Min	Nom	Max
THD (%)	-	-	10
PF (%)	0.95	-	-
Working Temp (°F)	-	-	140

*-200us event

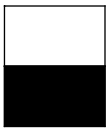
PROTECTIONS

- 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

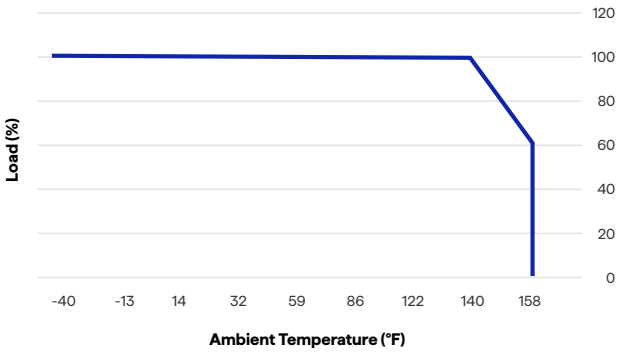
6 COLOR



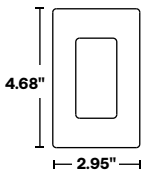
White (Standard)

Black

Derating Curve



COMPATIBLE ACCESSORIES



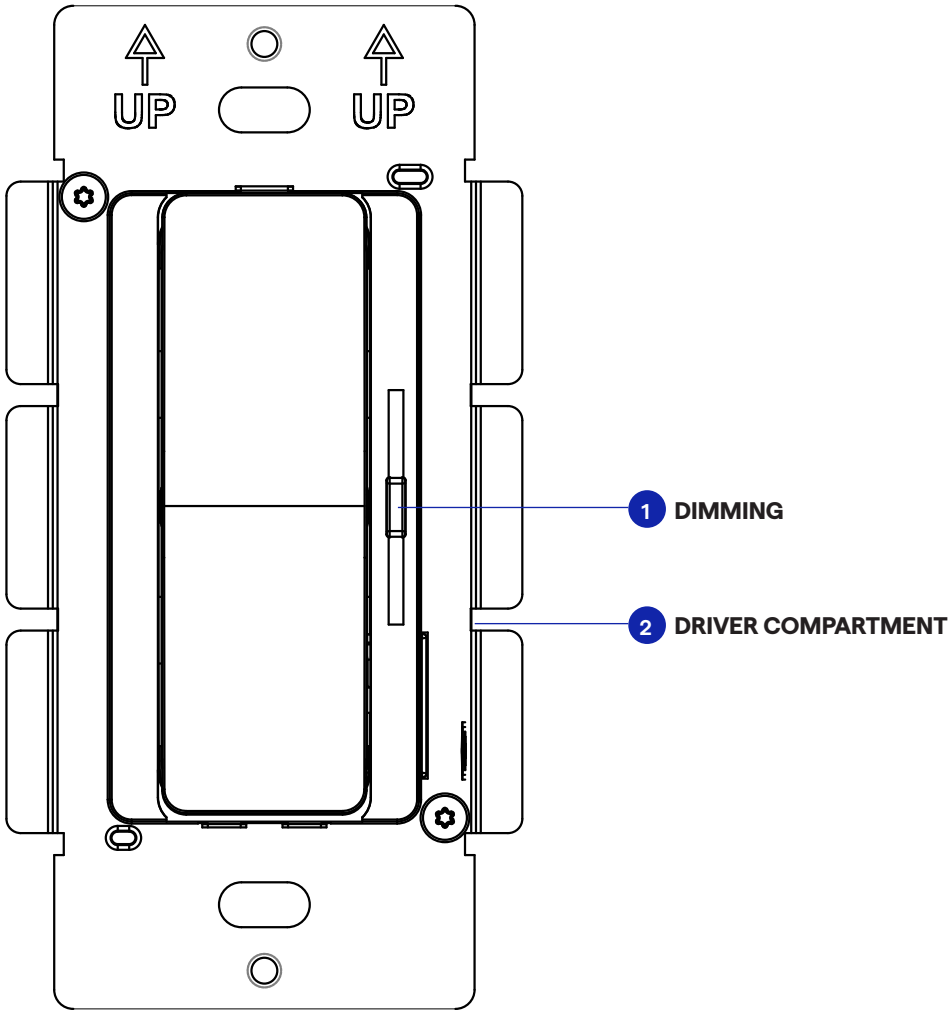
Wall Plate
Sold separately,
White: Q-DIM-WALLPLATE-WH
Black: Q-DIM-WALLPLATE-BK

© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

Q-DIM

Installation Instructions

FRONT VIEW



Q-DIM Components

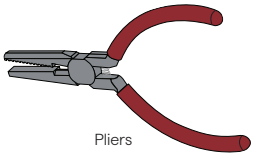
1 Dimmer	2 Driver Compartment

© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

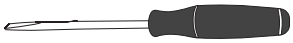
Q-DIM

Installation Instructions

Required Hardware



Pliers



Flat-Head Screwdriver



Mounting Plate Screw (x2)



#6 Flat Head Screw (x2)



Wire Strippers

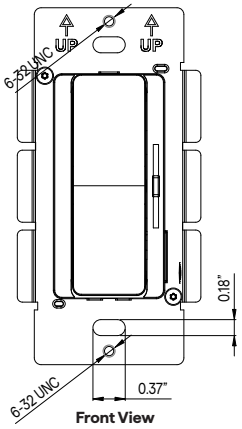


Phillips-Head Screwdriver



Wire Nut (x8)

Mounting Foot:

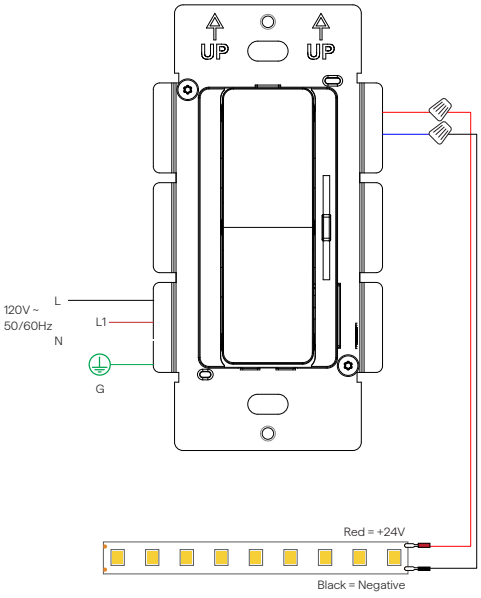


Front View

Mounting

1. Complete all wiring connections. Always turn off power at the circuit breaker before connecting wires. **DO NOT CONNECT RED WIRE**.

WIRING DIAGRAM



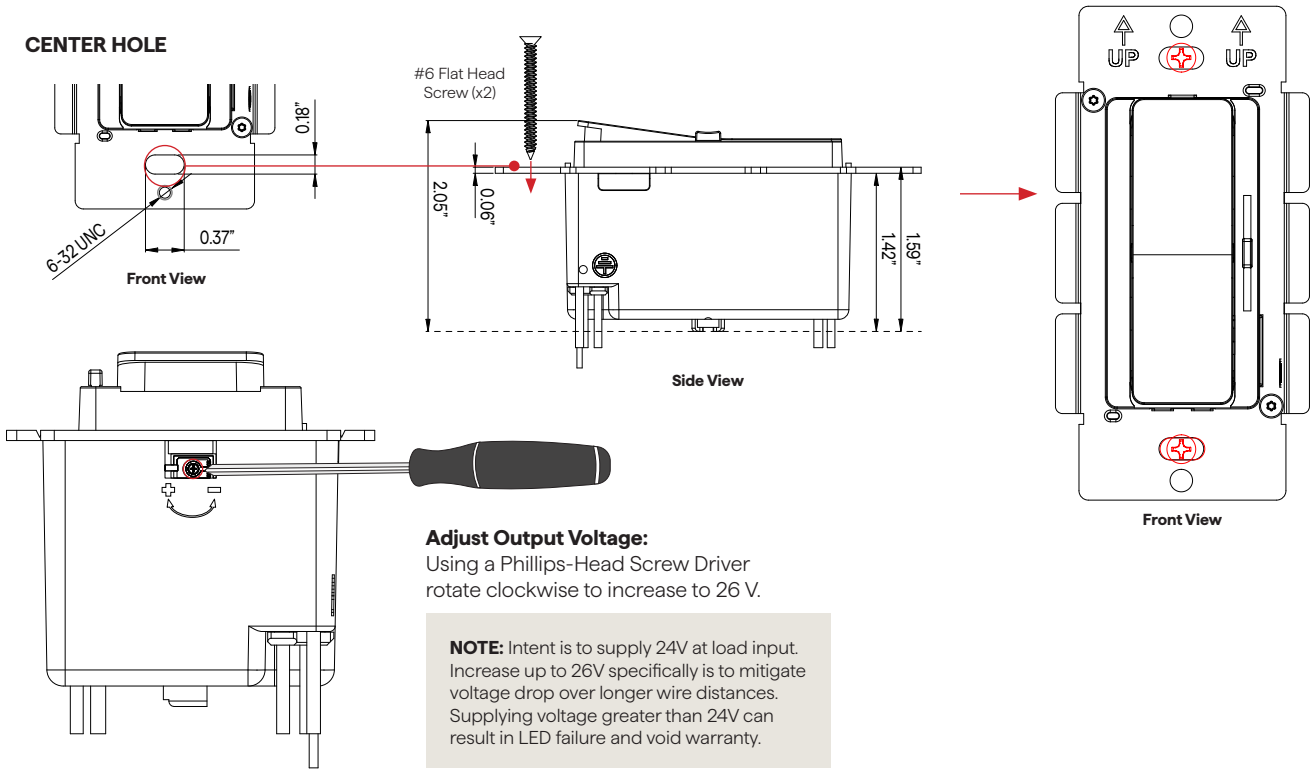
Standard Diming System

© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

Q-DIM

Installation Instructions

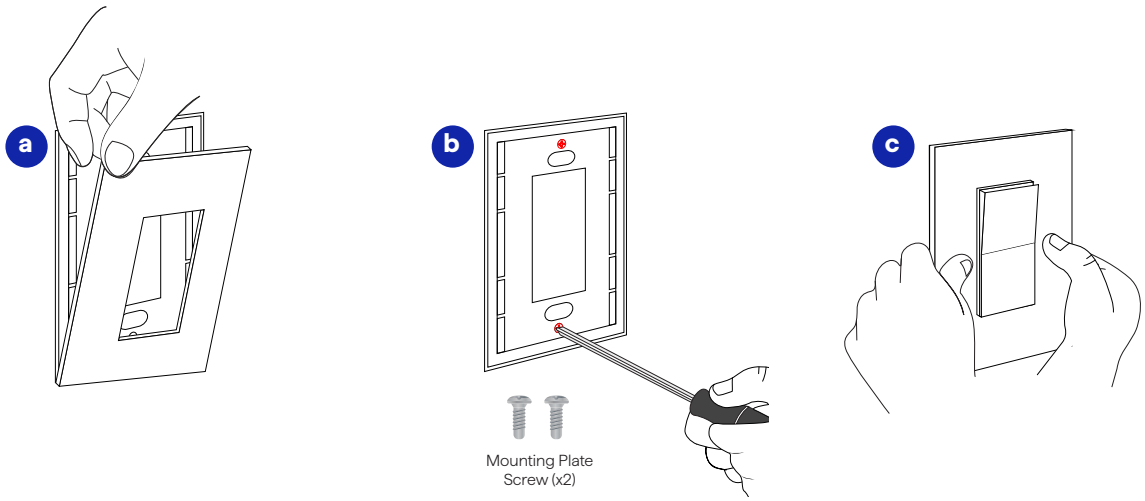
2 The Q-DIM must be mounted into a junction box on the top center and bottom center of each mounting tab. Rated for single gang application only.



Adjust Output Voltage:
Using a Phillips-Head Screw Driver rotate 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.

3 Install wallplate before restoring power. Clean wallplate with soft damp cloth only. Do not use any chemical cleaner.



© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting