QOM-eLED+0-10V

12V or 24V DC Power Supply - 60W–400W



- Surface mount, exterior rated LED power supply center.
- Utilizes UL Class 2 drivers with 0-10V dimming modules.
- Designed for powering 12VDC or 24VDC constant voltage products.
- Ideal for 0-10V or on/off applications.
- 0-10V dimming provides smooth dimming through PWM to the fixture.
- UL listed enclosure can accommodate 1-4 drivers and 1-4 dimming modules.
- Provides plenty of flexibility and comes with all modules prewired together with terminal blocks for landing your LED and control wires.
- Suitable for both indoor and outdoor use, making it versatile for various lighting applications.

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE	5 CONTROL	6 COLOR
QOM-eLED		UNV		0-10V	

Sample Part Number: **QOM-eLED-60W-UNV-12VDC-0-10V-BK**

1 PRODUCT

QOM-eLED

2 WATTAGE

100W 200W 300W 400W
60W 120W 180W

3 PRIMARY VOLTAGE

UNV	Universal (120-277V)
UNV	Universal (120-277V)

4 SECONDARY VOLTAGE

24VDC
12VDC

5 CONTROL

0-10V

6 COLOR

BK	Black Powder Coat Finish (Standard)
SS	316 Marine Grade Stainless Steel

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	

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QOM-eLED+0-10V

12V or 24V DC Power Supply - 60W–400W

PRODUCT INFORMATION

- Limited output voltage and current, plus isolation for safe operation
- Dimmable 0.1%-100% with additional 0-10V dimming module
- Fully potted driver(s) for moisture resistance
- Surface mount, exterior rated LED power supply center
- Suitable for use with submersible luminaires
- Primary voltage - universal (120-277V)
- Wide operating temperature range: -40˚F to 104˚F
- Fits up to (3): 60W 12VDC or (4): 100W 24VDC driver(s) and 0-10V dimming module(s) in the same housing
- 5-year warranty
- Driver has Class A sound rating
- Class 2 output
- CSA #239924
- Low Voltage Lighting Systems
  - CSA Class 3425-15 and Class 3425-95
  - CSA Standard C22.2 No. 250.0-08 - Luminaires
  - ANSI/UL Standard 2108 - Low Voltage Lighting System
  - ANSI/UL Standard 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products
  - CSA Std C22.2 No. 250.13-14 - Light Emitting Diode (LED) Equipment for Lighting Applications
  - Compliant to FCC Part 15B
- Landscape Lighting Systems
  - CSA Class 3426-04 and Class 3426-94
  - CSA Standard C22.2 No. 250.7-07 - Extra-Low-Voltage Landscape Lighting Systems
  - ANSI/UL Standard 1838 - Low Voltage Landscape Lighting Systems
  - ANSI/UL Standard 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products
  - CSA Std C22.2 No. 250.13-14 - Light Emitting Diode (LED) Equipment for Lighting Applications

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. If dimming with optional 0-10V dimming module, use a dimmer rated for 0-10

VOLTAGE DROP — 24V

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

VOLTAGE DROP — 12V

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
12	15	48	30	19	12	8	5	3	2	1
12	30	24	15	10	6	4	2	1	1	1
12	45	16	10	6	4	3	2	1	1	
12	60	12	8	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
12	15	144	91	57	36	23	14	9	6	4
12	30	72	45	29	18	11	7	4	3	2
12	45	48	30	19	12	8	5	3	2	1
12	60	36	23	14	9	6	4	2	1	1

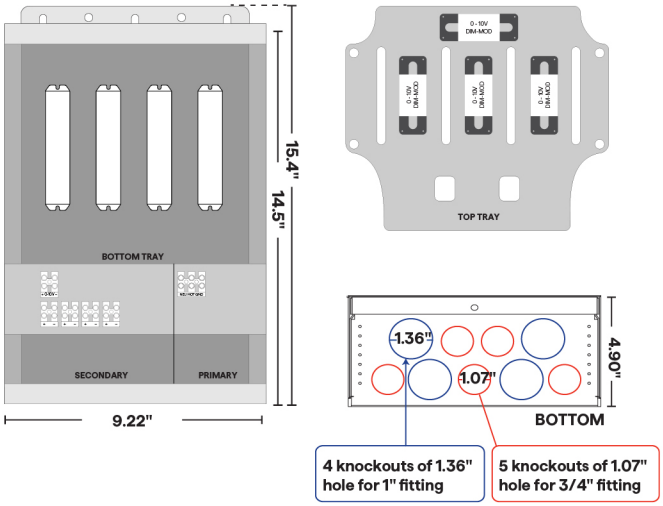
Distance from PS for 5% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
12	15	240	151	95	60	38	24	15	9	6
12	30	120	76	48	30	19	12	7	5	3
12	45	80	50	32	20	13	8	5	3	2
12	60	60	38	24	15	9	6	4	2	1

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QOM-eLED+0-10V

12V or 24V DC Power Supply - 60W–400W

1 PRODUCT - DIMENSIONS



2 TECHNICAL INFORMATION

Wattage	Max Load (Watts)	Secondary Voltage	Max Prim Amps @ 120V	Max Prim Amps @ 277V
100W	1x100W	24VDC	0.95A	0.40A
200W	2x100W	24VDC	1.90A	0.80A
300W	3x100W	24VDC	2.85A	1.20A
400W	4x100W	24VDC	3.80A	1.60A
60W	1x60W	12VDC	0.60A	0.29A
120W	2x60W	12VDC	1.20A	0.58A
180W	3x60W	12VDC	1.80A	0.87A

HOUSING

- 18 gauge welded steel enclosure: 15.4"L x 9.22"W x 4.90"D
- Door: 14.5"L x 9.27"W
- Knockouts: 9
- Built-in support bracket incorporated to secure housing for surface mounting

PERFORMANCE

- Rated for surface mount or outdoor use
- Fully rated to operate low voltage load at listed wattage (No derating required)
- Voltage regulation to 2% or less of rated output voltage
- The ability to be dimmed using 0-10V dimming
- Universal input range of 120-277 Vrms
- Low Voltage Lighting Systems
  - CSA Class 3425-15 and Class 3425-95
- LED Landscape Lighting System Components
  - CSA Class 3402-15 and Class 3402-95
  - Short circuit protection (SCP)
  - Over voltage protection (OVP)
  - Over current protection (OCP)
  - Live tested by the manufacturer to ensure proper operation
- Terminal blocks are made of tin plated copper with a voltage rating of 300V and a current rating of 40A

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QOM-eLED+0-10V

12V or 24V DC Power Supply - 60W–400W

SPECIFICATIONS

Input	12VDC			24VDC		
Input Voltage (Vrms)	120	230	277	120	230	277
Input Current, max (Arms)	0.58	0.30	0.25	0.98	0.51	0.42
Inrush Current, max* (Apk)	-	-	-	45	90	100
Input Frequency (Hz)	50/60			50/60		
Input Power (Wmax)	70			117		

Output	12VDC	24VDC
Output Voltage, nom (V)	12	24
Output Current (A)	5.0	4.1
Output Power (Wmax)	60	100
Dimming 0-10V, max	2mA	

Environmental	Min	Nom	Max	Min	Nom	Max
THD (%)	-	-	20	-	-	20
PF (%)	0.90	-	-	0.90	-	-
Case Temp (°F)	-	-	90	-	-	90

*-200us event

PROTECTIONS

- Short Circuit Protection (SCP)
- Over Voltage Protection (OVP)
- Over Current Protection (OCP)
- Class 2 Output

6 COLOR



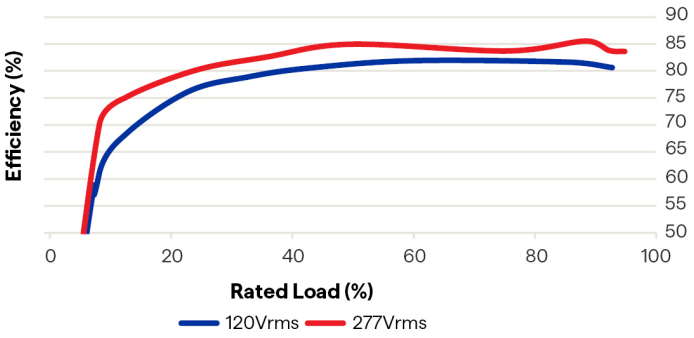
Black Powder Coat Finish (Standard)

316 Marine Grade Stainless Steel

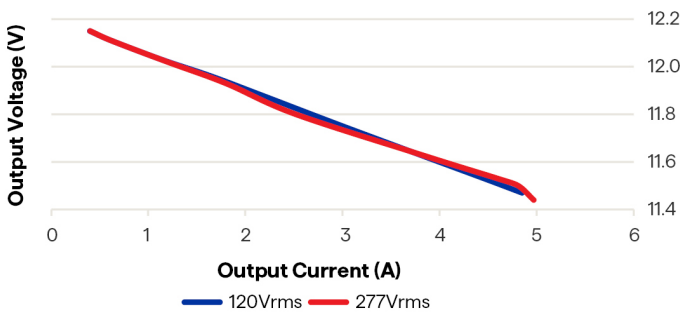
COMPLIANCE

- EMI Spec
  - FCC 47 Part 15
  - FCC 47 CFR Part 15 Subpart B
  - EN61000-3-2
- CSA Certified
- - UL-2108
  - UL-1838
  - UL-8750
  - CSA C22.2 No 250.7-07
  - CSA C22.2 No 250.0-08
  - CSA C22.2 No 250.13-14

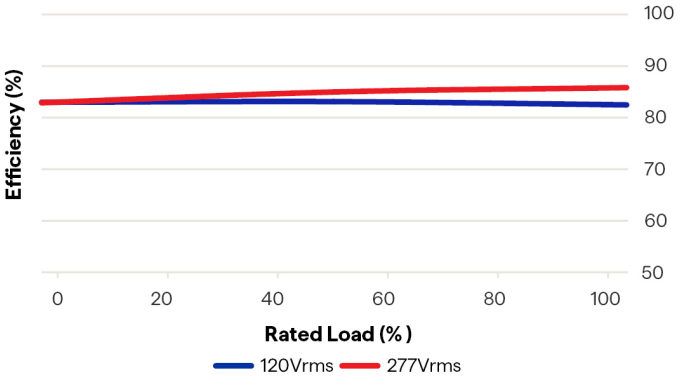
Efficiency, 12VDC



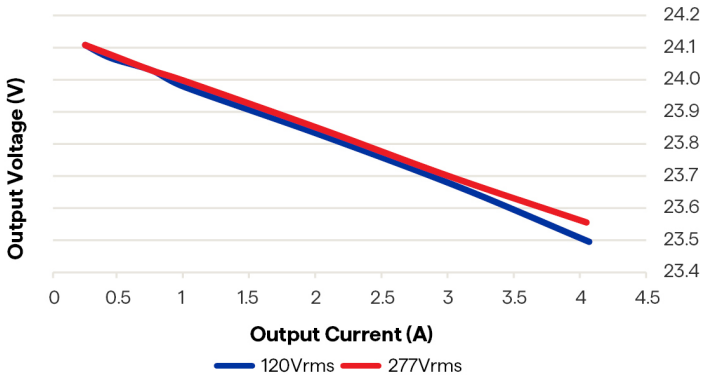
Vout vs. Iout, 12VDC



Efficiency, 24VDC



Vout vs. Iout, 24VDC

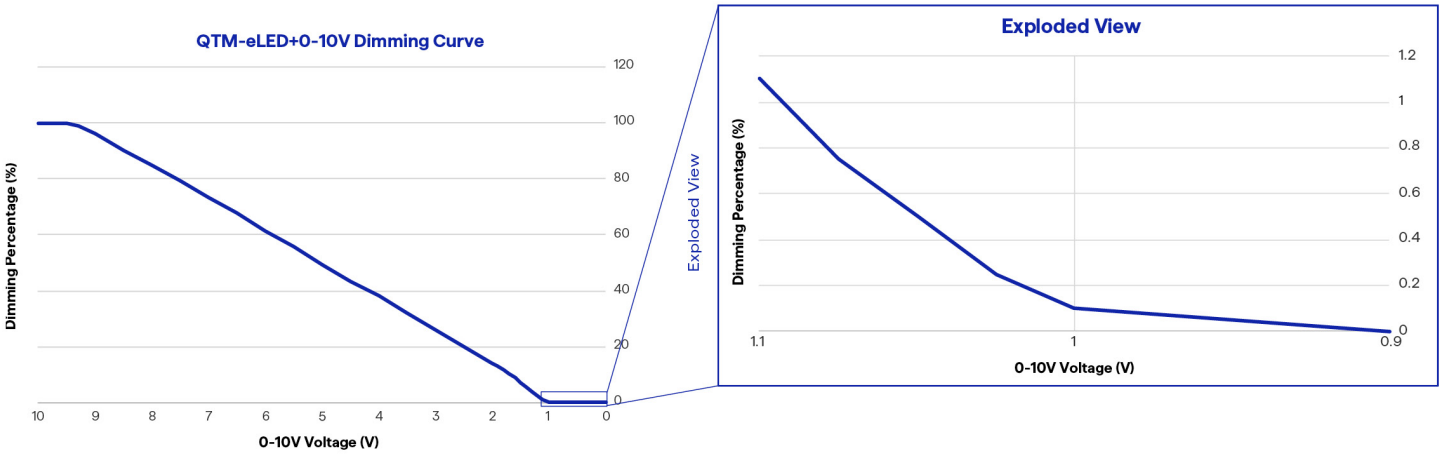


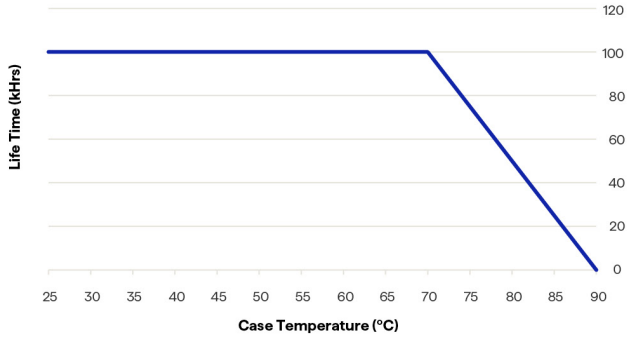
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Specification subject to change. Rev-08-24-26

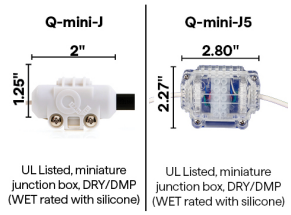
QOM-eLED+0-10V

12V or 24V DC Power Supply - 60W–400W





COMPATIBLE WIRING ACCESSORIES



UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

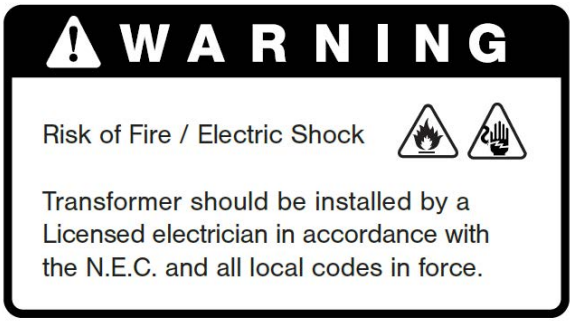
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Specification subject to change. Rev-08-24-26

QOM-eLED+0-10V

Installation Instructions

- **Must be installed by licensed electrician.**



LOW VOLTAGE LIGHTING SYSTEM & LANDSCAPE LIGHTING SYSTEMS

CLASS: **3425-15** **3402-15** **3425-95** **3402-95**

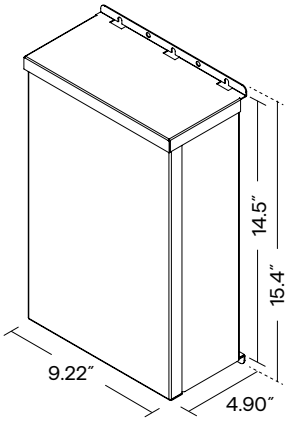
- Wear rubber shoes and work on a sturdy wooden or fiberglass ladder.
- This power supply must be installed according to the National Electric Code and local codes and ordinances.
- This power supply is to be installed and serviced only by an licensed electricians.
- This power supply is to be installed so that it is not likely to be contacted by people.
- To avoid a hazard to children, account for all parts and destroy all packaging materials.

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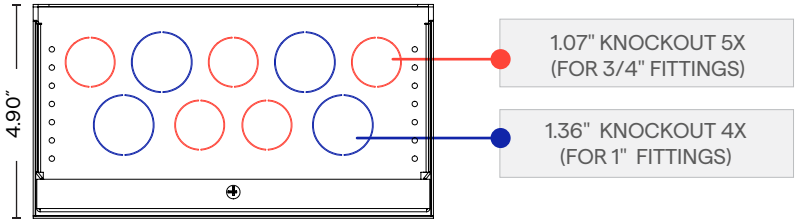
QOM-eLED+0-10V

Installation Instructions

Housing

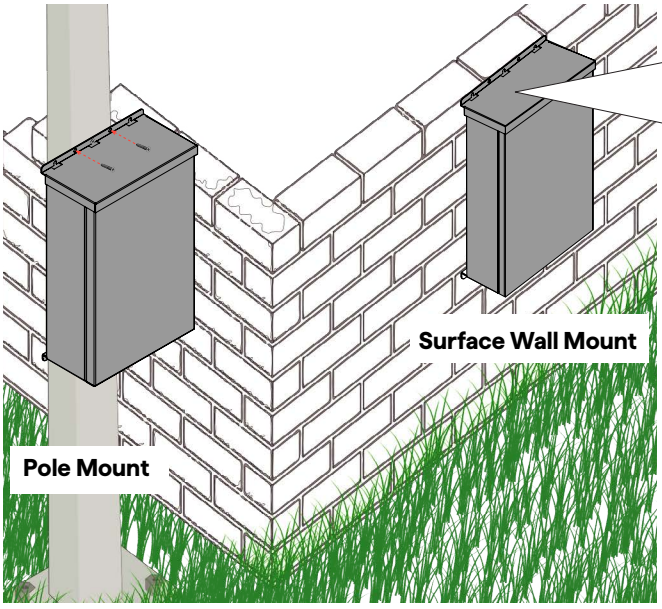


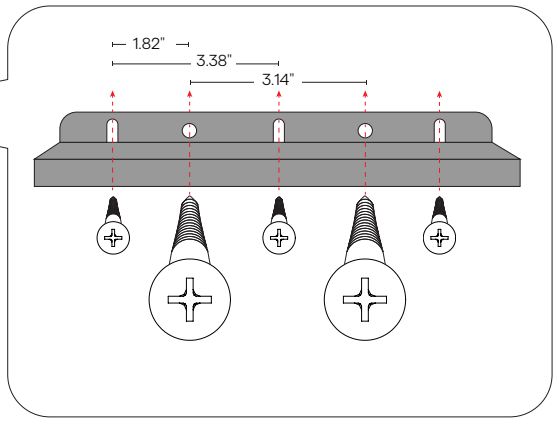
ISOMETRIC VIEW

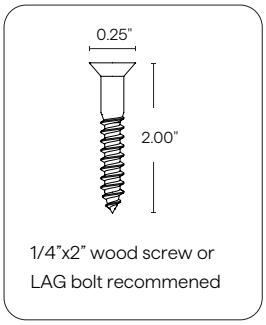


BOTTOM VIEW

Mounting Options







NOTE:

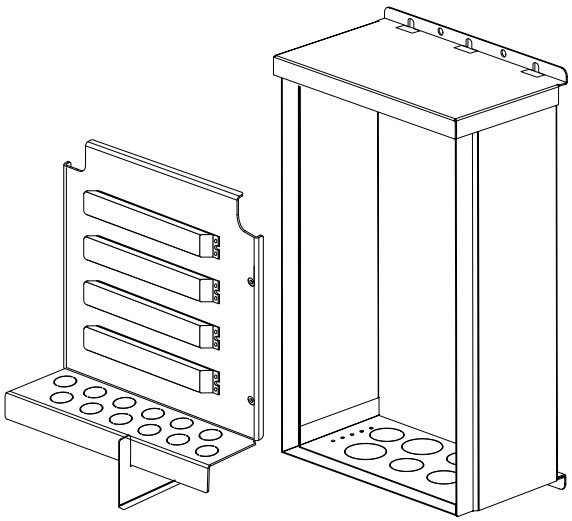
- To order additional lengths of wire for connection in the secondary. Please call factory for availability.
- QOM must be installed as shown.

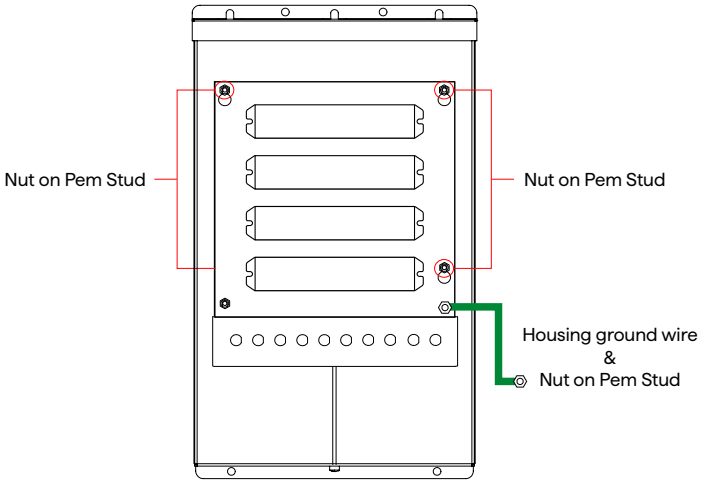
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QOM-eLED+0-10V

Installation Instructions

POWER TRAY INSTALL



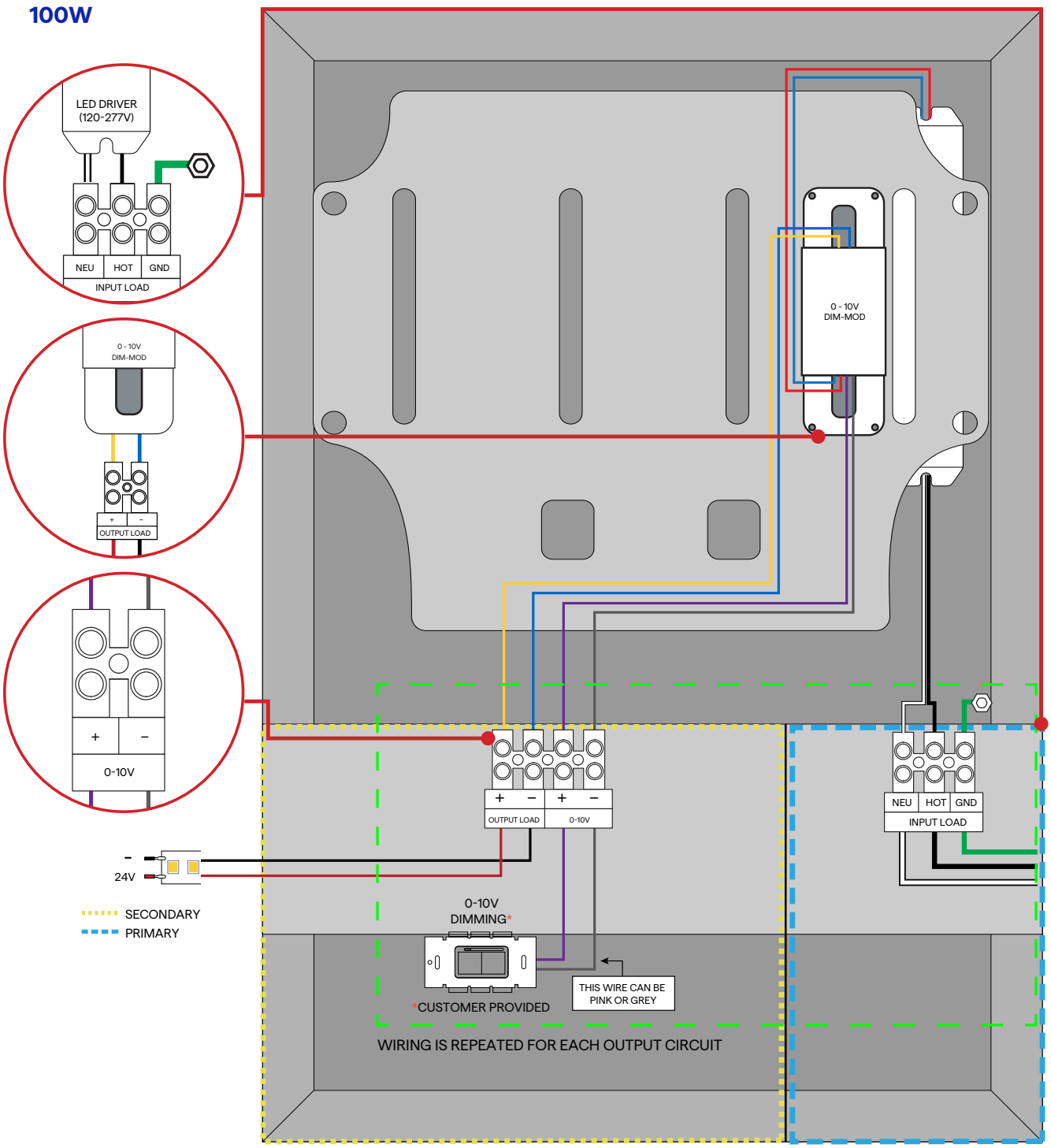


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QOM-eLED+0-10V

Installation Instructions

WIRING DIAGRAM



Only for wiring purposes

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QOM-eLED+0-10V

Installation Instructions

CSA Requirements

- Suitable for indoor and outdoor use
- This power supply must be installed according to the National Electric Code and local codes and ordinances and in accordance with applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.
- Wear rubber shoes and work on a sturdy wooden or fiberglass ladder.
- This power supply is to be installed in a location where it is not likely to be contacted by non-electricians.
- To avoid a hazard to children, account for all parts and destroy all packaging materials.

QOM-eLED

	Model	Input Voltage (V)	Input Current (A)	Frequency	Nominal Output Voltage (VDC)	Nominal Output Wattage (W)
INPUT VOLTAGE	○ 120V - 277V					
OUTPUT VOLTAGE					○ 12V	○ 24V
○○○	QOM-eLED-60	120/277	0.60/0.29	50/60	12	60
	QOM-eLED-120	120/277	1.20/0.58	50/60	12	120
	QOM-eLED-180	120/277	1.80/0.87	50/60	12	180
○○○○	QOM-eLED-100	120/277	0.95/0.40	50/60	24	100
	QOM-eLED-200	120/277	1.90/0.80	50/60	24	200
	QOM-eLED-300	120/277	2.85/1.20	50/60	24	300
	QOM-eLED-400	120/277	3.80/1.60	50/60	24	400

CONTROL TYPE

- ○ 0-10V
- ○ DMX
- ○ WD
- ○ TW
- ○ IA
- ○ DALI-DT6
- ○ DALI-DT8
- ○ ND

- Suitable for indoor or outdoor use
  CONVIENT POUR UNE UTILISATION INTÉRIEURE OU EXTÉRIEURE
- Wall mount only
  INSTALLATION MURALE SEULEMENT
- Suitable for mounting within 1.2m (4ft) of the ground
  PEUT ÊTRE INSTALLÉ À MOINS DE 1.2 M (4 PI) DU SOL
- Do not submerse
  NE PAS IMMERGER
- Suitable for under-cabinet mount
  CONVIENT POUR UN MONTAGE SOUS UNE ARMOIRE
- Suitable for wet locations
  CONVIENT AUX EMPLACEMENTS MOUILLÉ
- For supply connections use wire rated for at least 60°C
  POUR LES CONNEXIONS D'ALIMENTATION, UTILISEZ UN FIL ÉVALUÉ AU MOINS À 60°C
- Keep enclosure cover closed
  GARDEZ LE COUVERCLE DU BOÎTIER FERMÉ
- Read Installation Instructions Before Wiring
  LIRE LES INSTRUCTIONS D'INSTALLATION AVANT LE CÂBLAGE
- Class 2
  CLASSE 2

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.

CE PRODUIT DOIT ÊTRE INSTALLÉ SELON LE CODE D'INSTALLATION PERTINENT, PAR UNE PERSONNE QUI CONNAÎT BIEN LE PRODUIT ET SON FONCTIONNEMENT AINSI QUE LES RISQUES INHÉRENTS.

WARNING: RISK OF FIRE

IF INSTALLATION INVOLVES RUNNING WIRE THROUGH A BUILDING STRUCTURE, SPECIAL WIRING METHODS ARE NEEDED. CONSULT A QUALIFIED ELECTRICIAN.

RISQUE D'INCENDIE. SI L'INSTALLATION IMPLIQUE UN FIL DE COURANT À TRAVERS UNE STRUCTURE DE BÂTIMENT, DES MÉTHODES DE CÂBLAGE SPÉCIALES SONT NÉCESSAIRES. CONSULTEZ UN ÉLECTRICIEN QUALIFIÉ.

CAUTION:

FOR 12VDC OUTPUT VOLTAGE, DO NOT CONNECT MORE THAN ONE LUMINAIRE HEAD ASSEMBLIES OF 60 W MAXIMUM EACH TO ANY ONE OUTPUT. FOR 24VDC OUTPUT VOLTAGE, DO NOT CONNECT MORE THAN ONE LUMINAIRE HEAD ASSEMBLIES OF 100 W MAXIMUM EACH TO ANY ONE OUTPUT.

POUR UNE TENSION DE SORTIE DE 12 V CC, NE CONNECTEZ PAS PLUS D'UN ENSEMBLE DE TÊTES DE LUMINAIRE DE 60 W MAXIMUM CHACUN À UNE SORTIE. POUR UNE TENSION DE SORTIE DE 24 V CC, NE CONNECTEZ PAS PLUS D'UN ENSEMBLE DE TÊTES DE LUMINAIRE DE 100 W MAXIMUM CHACUN À UNE SORTIE.

QTL
MILFORD, CT U.S.A.
(203) 367-8777
www.QTL.lighting

Low Voltage Luminaires
Power Supply Center &
LED Landscape
Lighting System

CLASS: 3425-15
3425-95
3402-15
3402-95

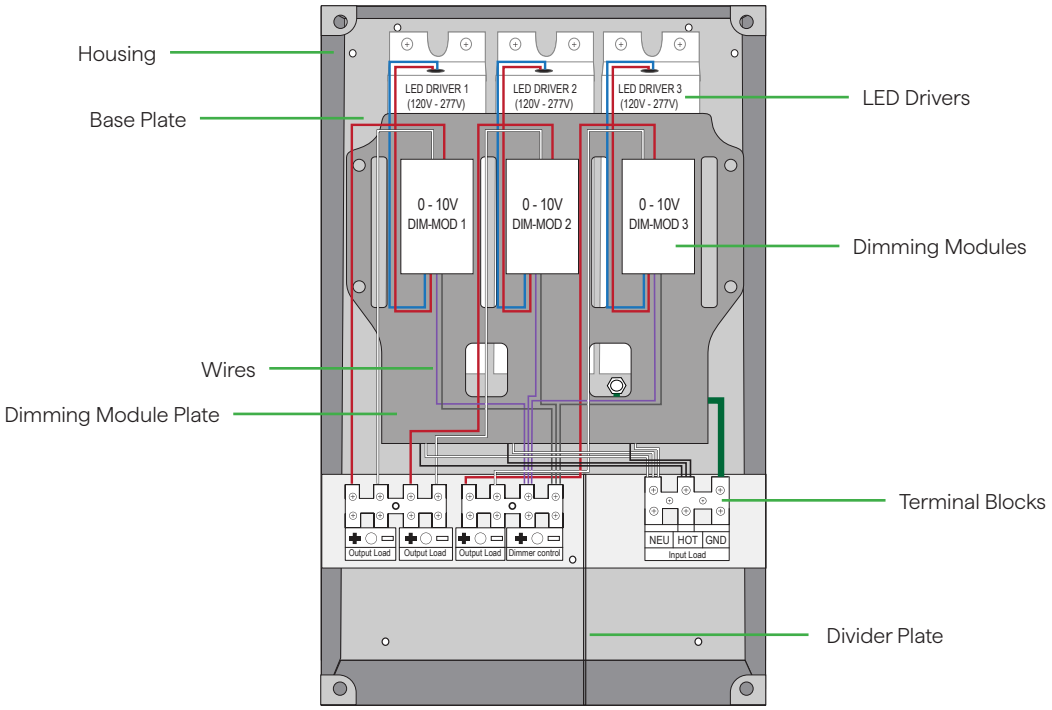
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MATERIAL RECYCLING

QTM/QOM-eLED

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.



QTM-eLED shown

7

Terminal Blocks

E

LED Drivers
Dimming Modules
Wires

40

Housing
Base Plate
Dimming Module Plate
Divider Plate

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