QOM-eLED+TW-PS

24V DC Power Supply - 100W–400W



- Surface mount, exterior rated LED power supply center.
- Utilizes a 100W constant voltage LED driver with reliable and efficient performance.
- Specifically designed for adjustable white LED lighting, providing control over color temperature and intensity.
- Capable of handling up to 400W of power and control within a single enclosure, offering flexibility in lighting applications.
- 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, and it has the additional option to be used in pool & spa applications.

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE	5 CONTROL	6 COLOR
QOM-eLED-PS		UNV	24VDC	TW	

Sample Part Number: **QOM-eLED-PS-100W-UNV-24VDC-TW-BK**

1 PRODUCT

QOM-eLED-PS	

2 WATTAGE

100W	
200W	
300W	
400W	

3 PRIMARY VOLTAGE

UNV	Universal (120-277V)

4 SECONDARY VOLTAGE

24VDC	

5 CONTROL

TW	Tunable White

6 COLOR

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

PRODUCT INFORMATION

- Limited output voltage and current, plus isolation for safe operation
- QTL proprietary dimming curve
- Controllable with 2x0-10V inputs; CCT and Intensity Control
- Control 2 LED channels
- 0-10V dimming down to off
- Fully potted driver(s) for moisture resistance
- Primary voltage - universal (120-277V)
- Wide operating temperature range: -40˚F to 104˚F
- Fits up to (4): 100W 24 VDC driver(s) and Tunable White Module(s)
- 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
  - UL 2108 - Low Voltage Lighting Systems
  - 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
- Landscape Lighting Systems
  - CSA Class 3402-15 and Class 3402-95
  - 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
- Hydromassage (Pool and Spa)
  - CSA Class 3425-46 and class 3425-96
  - UL Standard 379 - Power Unit for Fountain, Swimming Pool and Spa Luminaires
  - CSA STD C22.2 NO. 89-15 - Swimming Pool Luminaire, Submersible Luminaires and Accessories

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QOM-eLED+TW-PS

24V DC Power Supply - 100W–400W

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. To calculate the wire lengths at specific loads, use QTL's online voltage

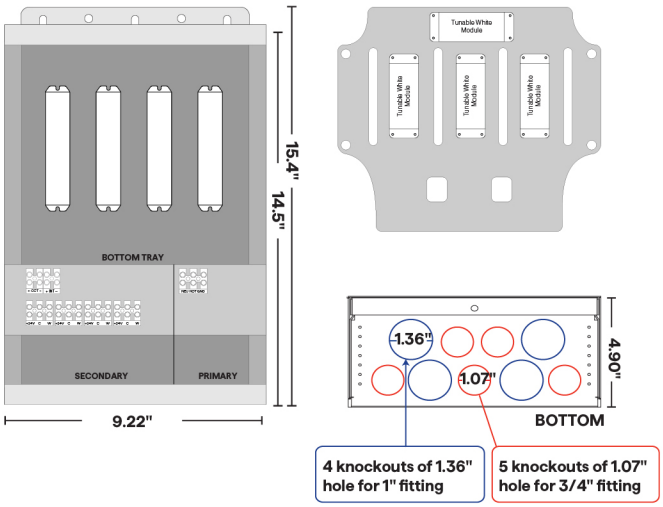
VOLTAGE DROP

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



2 TECHNICAL INFORMATION

Wattage	Max Load (Watts)	Secondary Voltage	Max Prim Amps @ 120V	Max Prim Amps @ 277V
100W	1×100W	24VDC	0.95A	0.40A
200W	2×100W	24VDC	1.90A	0.80A
300W	3×100W	24VDC	2.85A	1.20A
400W	4×100W	24VDC	3.80A	1.60A

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QOM-eLED+TW-PS

24V DC Power Supply - 100W–400W

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
- Hydromassage (Pool & Spa)
  - CSA Class 3425-46 and Class 3425-96
  - 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

SPECIFICATIONS

Input	24VDC		
Input Voltage (Vrms)	120	230	277
Input Current, max (Arms)	0.98	0.51	0.43
Inrush Current, max* (Apk)	-	20	-
Input Frequency (Hz)	50/60		
Input Power (Wmax)	117		

Output	3000K	2000K
Output Voltage, nom (V)	24	24
Output Current (A)	2.0	1.5
Output Power (Wmax)	100	100
Dimming 0-10V, max	2mA	

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

*-200us event

PROTECTIONS

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

COMPLIANCE

- EMI Spec : FCC 47 Part 15-EN61000-3-2
- CSA Certified : UL-2108
  - UL-1838
  - UL-8750
  - UL 379
  - CSA C22.2 No 250.7-07
  - CSA C22.2 No 250.0-08
  - CSA C22.2 No 250.13-14
  - CSA C22.2 No 89-15

6 COLOR



Black Powder Coat Finish (Standard)

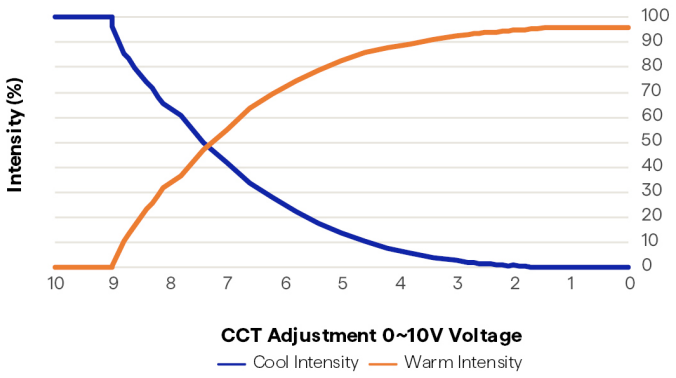
316 Marine Grade Stainless Steel

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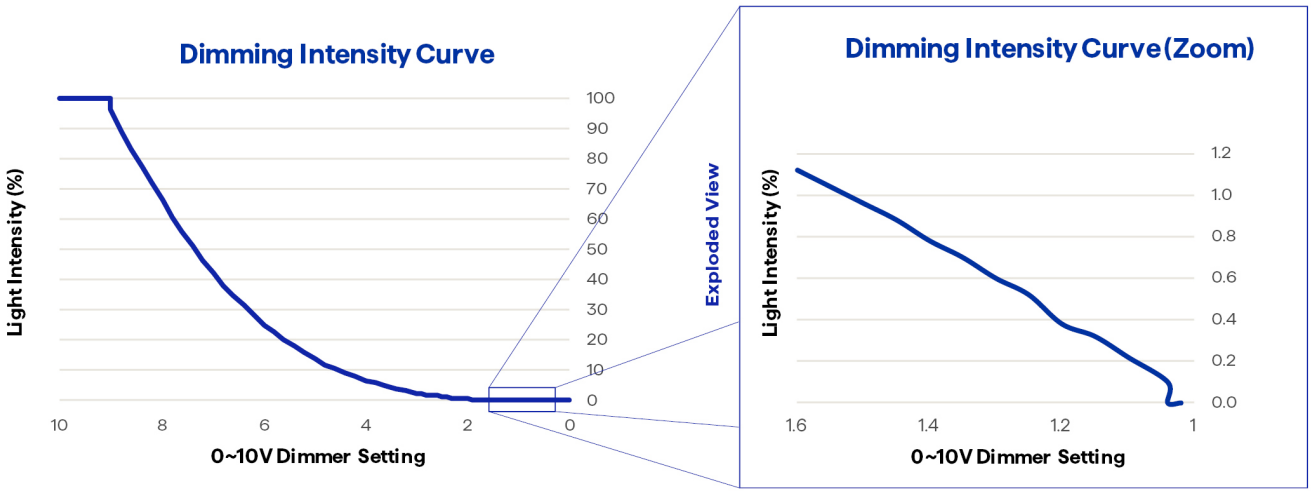
QOM-eLED+TW-PS

24V DC Power Supply - 100W–400W

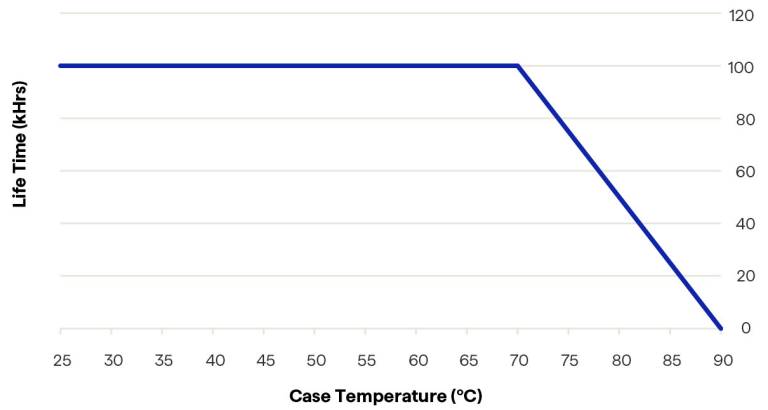
Color Balance



Dimming Intensity Curve



Life Time vs. Case Temperature



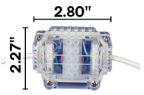
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QOM-eLED+TW-PS

24V DC Power Supply - 100W–400W

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5



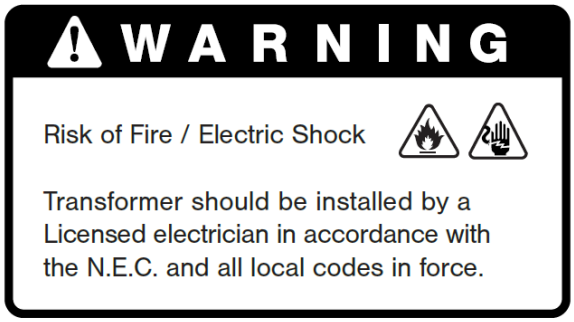
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

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QOM-eLED+TW-PS

Installation Instructions

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



LOW VOLTAGE LIGHTING SYSTEM & LANDSCAPE LIGHTING SYSTEMS, SYSTEM COMPONENTS & HYDROMASSAGE COMPONENT

CLASS: **3425-15 3402-15 3425-46 3425-95 3402-95 3425-96**

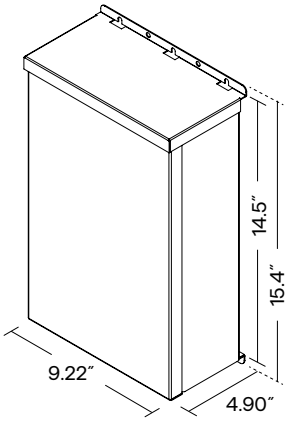
- Wear rubber shoes and work on a sturdy wooden or fiberglass ladder.
- This power supply must be installed according to the National Electric Code and local codes and ordinances.
- This power supply is to be installed and serviced only by an licensed electricians.
- This power supply is to be installed 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.
- Do not install in wet locations.

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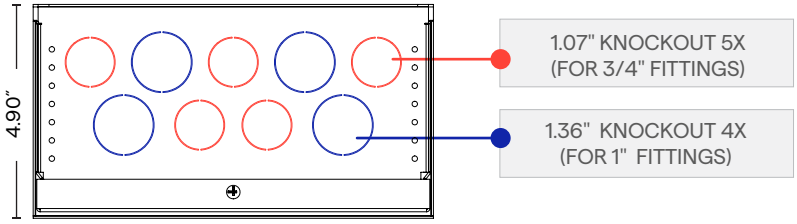
QOM-eLED+TW-PS

Installation Instructions

Housing

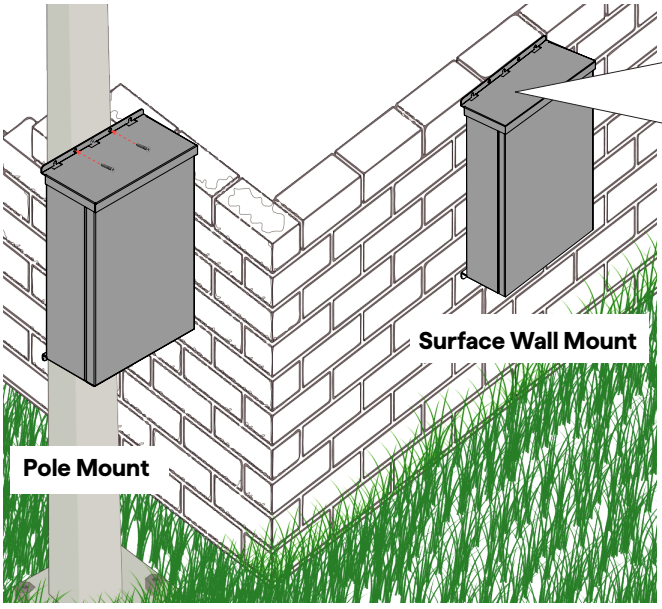


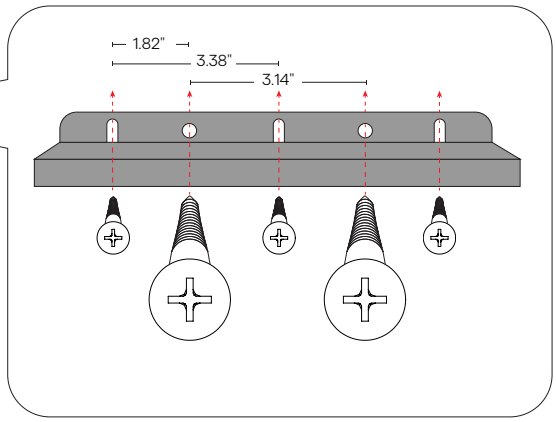
ISOMETRIC VIEW

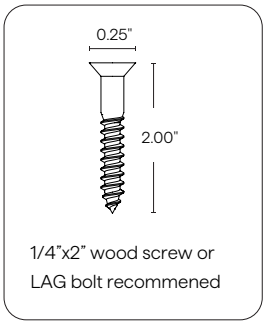


BOTTOM VIEW

Mounting Options







NOTE:

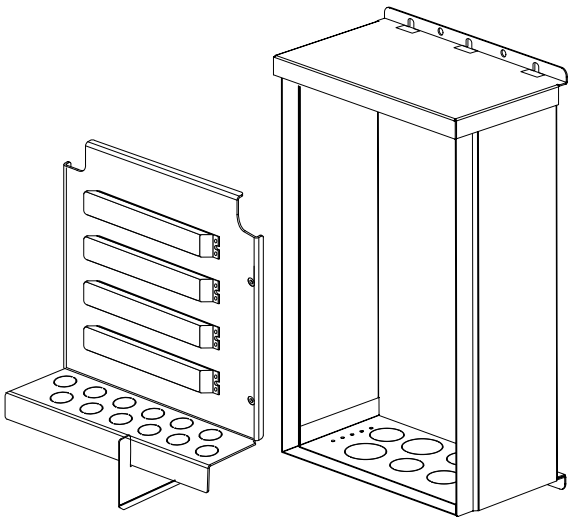
- To order additional lengths of wire for connection in the secondary. Please call factory for availability.
- QOM must be installed as shown.

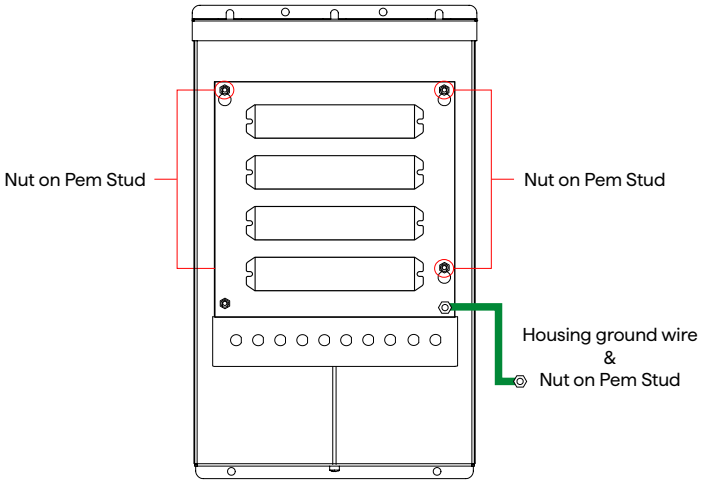
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QOM-eLED+TW-PS

Installation Instructions

POWER TRAY INSTALL



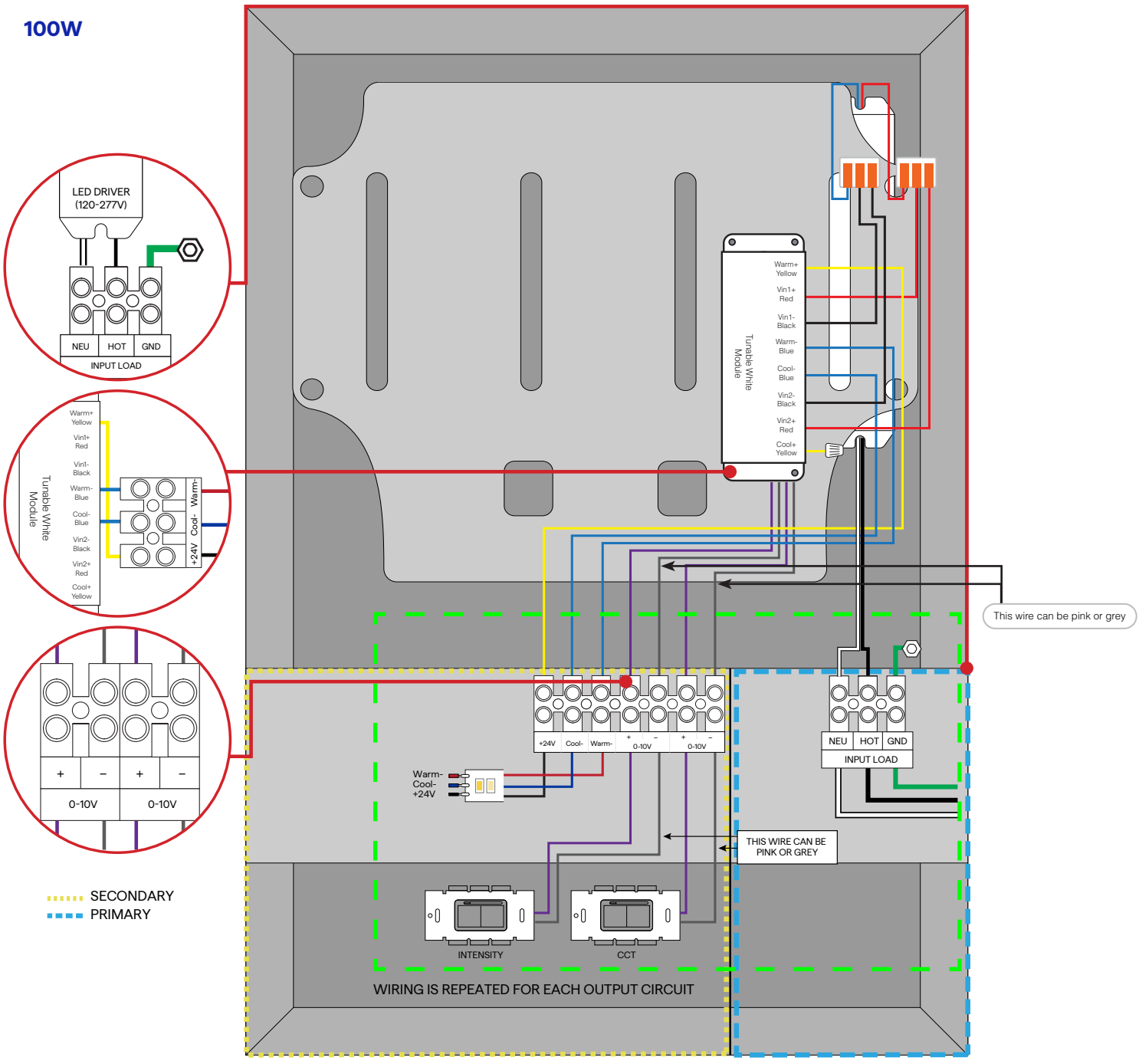


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QOM-eLED+TW-PS

Installation Instructions

WIRING DIAGRAM



Only for wiring purposes

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Specification subject to change. Rev-05-07-26

QOM-eLED+TW-PS

Installation Instructions

Swimming Pool Installation

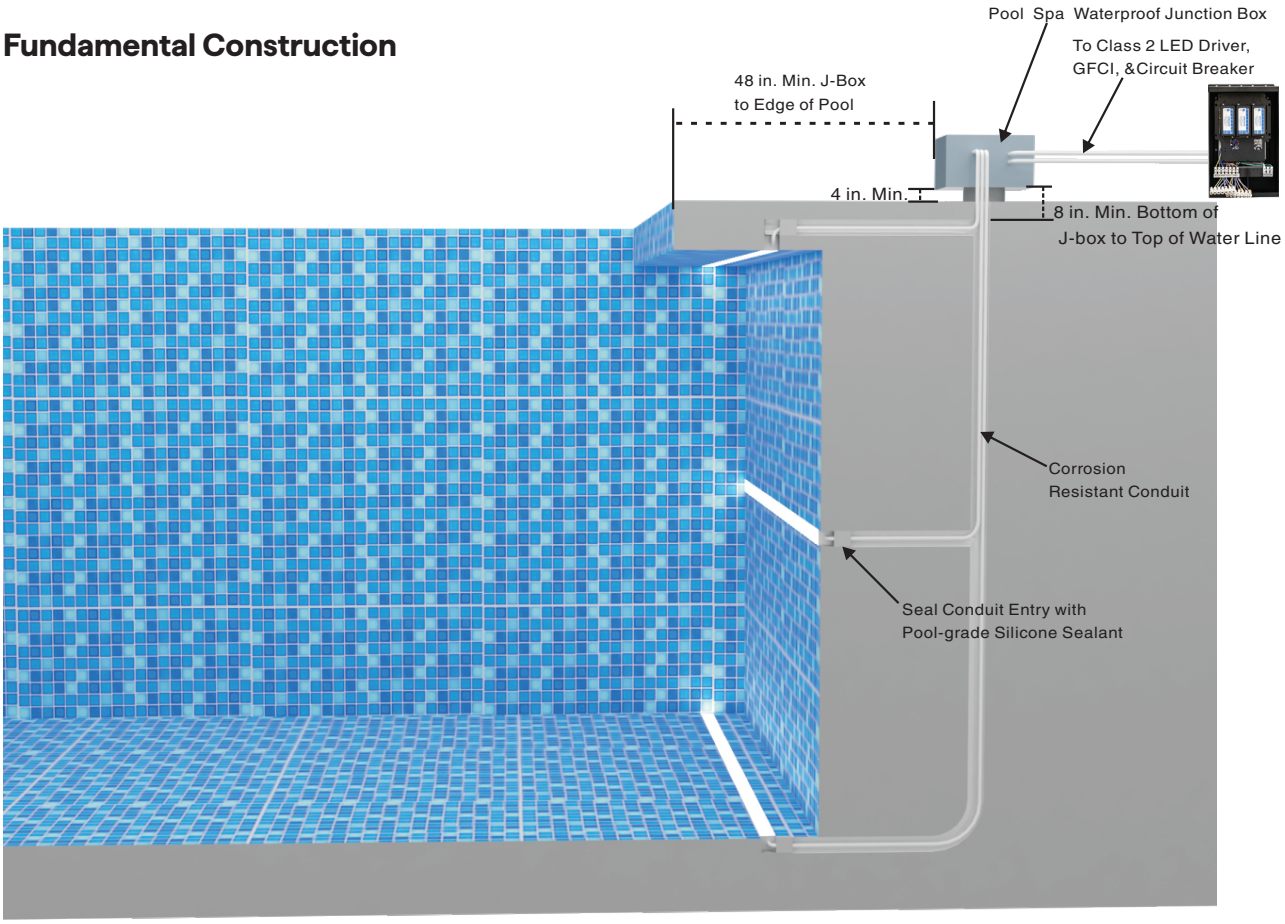
REGULATIONS

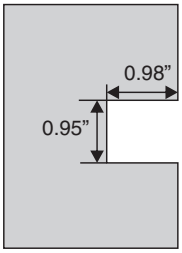
In accordance with the requirements of NEC680 regulation in the United States, when an illumination light is installed in the swimming pool, the distance from the bottom of the terminal box to the ground shall be no less than 4 inches. The vertical distance to the water surface of the swimming shall not be less than 8 inches, and the horizontal distance to the water edge of the swimming pool shall not be less than 48 inches.

REQUIREMENT FOR POWER SUPPY

Please use only an isolating low voltage power supply with ungrounded output, evaluated for swimming pool use.

Fundamental Construction





For swimming pool, the embedded installation is strongly suggested so as to secure the swimmers' safety and avoid the damage to lights, so a slot for implanting profiles should be prepared on mounting surface first, suggested slot sizes: 0.95” in width, 0.98” in depth.

All the fundamental constructions, including the installation of junction box and switch, cable bushing and laying, the digging of slots, etc., should be done before the light installation.

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QOM-eLED+TW-PS

Installation Instructions

CSA Requirements

- Power unit for use with Fountain, Swimming Pool, and Spa Luminaires
- 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.
- Keep enclosure cover covered.

QOM-eLED-PS

INPUT VOLTAGE: ◯ 120V - 277V

OUTPUT VOLTAGE: ◯ 12V ◯ 24V

CONTROL TYPE: ◯ 0-10V-PS ◯ DMX-PS ◯ WD-PS ◯ TW-PS ◯ DALI-DT6-PS ◯ DALI-DT8-PS ◯ ND-PS

Model	Input Voltage (V)	Input Current (A)	Frequency	Nominal Output Voltage (VDC)	Nominal Output Wattage (W)
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

- Suitable for indoor, outdoor or pool & spa use
  CONVIENT POUR UNE UTILISATION EN INTÉRIEUR, EN EXTÉRIEUR OU EN PISCINE ET SPA
- 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
- Suitable for use with submersible luminaires or submersible pumps
  CONVIENT POUR UNE UTILISATION AVEC DES LUMINAIRES SUBMERSIBLES OU DES POMPES SUBMERSIBLES
- CAUTION - This control unit has more than one power supply point disconnect all power supplies before servicing
  COUPER L'ALIMENTATION AVEN L'ENTRETIEN
- 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

Power unit for use with fountain, swimming pool, and spa luminaires.
UNITÉ D'ALIMENTATION À UTILISER AVEC LES LUMINAIRES DE FONTAINE, DE PISCINE ET DE SPA.

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

DO NOT CONNECT TWO OR MORE POWER SUPPLIES IN PARALLEL.
NE CONNECTEZ PAS DEUX OU PLUSIEURS ALIMENTATIONS EN PARALLÈLE.

QTL
MILFORD, CT U.S.A.
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Low Voltage Luminaires
Power Supply Center &
LED Landscape Lighting
System Components &
Hydromassage Component

CLASS: 3425-15
3425-46
3425-95
3425-96
3402-15
3402-95

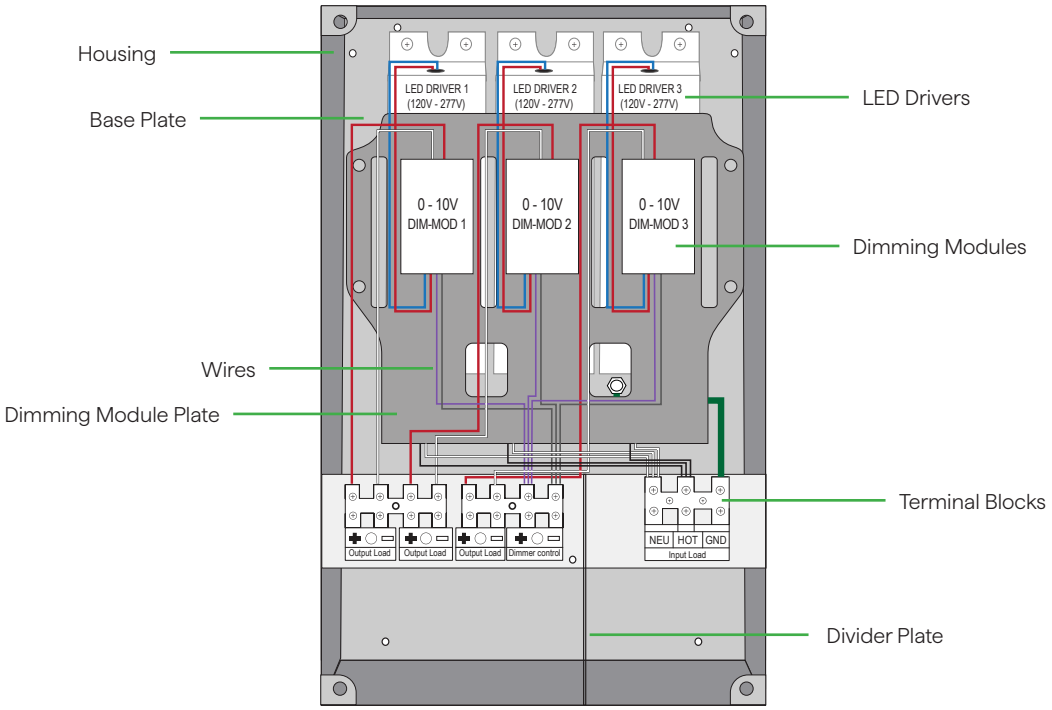
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MATERIAL RECYCLING

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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