QOM-eLED+IA

12V or 24V DC Power Supply - 60W–400W



- Surface mount, exterior rated LED power supply center.
- Can be controlled using DMX commands, allowing for precise and customizable lighting effects.
- Supports a maximum of 512 addresses per universe, providing flexibility in addressing multiple LED strips.
- It provides an SPI (Serial Peripheral Interface) signal to drive the compatible individually addressable LED strip lights.
- 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, making it versatile for various lighting applications.

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

Sample Part Number: **QOM-eLED-60W-UNV-12VDC-IA-BK**

1 PRODUCT

QOM-eLED

2 WATTAGE

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

3 PRIMARY VOLTAGE

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

4 SECONDARY VOLTAGE

24VDC
12VDC

5 CONTROL

IA	Individually Addressable

Separate DMX universe per decoder configuration available upon request

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+IA

12V or 24V DC Power Supply - 60W–400W

PRODUCT INFORMATION

- Limited output voltage and current, plus isolation for safe operation
- Controllable with DMX commands - max 512 addresses per universe
- Provides SPI signal to LED strip
- For use with individually addressable or Pixel SPI LED product
- Primary voltage - universal (120-277V)
- Fits up to (2): 60W 12VDC or (4): 100W 24VDC driver(s) and DMX-to-SPI decoder module(s)
- Wide operating temperature range: -4˚F to 122˚F
- 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
- 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

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 — 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

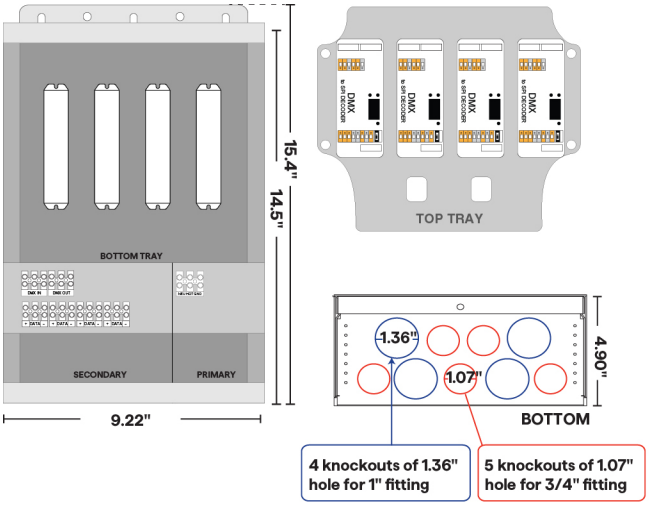
Distance from PS for 5% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
12	15	240	151	95	60	38	24	15	9	6
12	30	120	76	48	30	19	12	7	5	3
12	45	80	50	32	20	13	8	5	3	2
12	60	60	38	24	15	9	6	4	2	1

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QOM-eLED+IA

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
100W	2x60W	12VDC	1.20A	0.58A

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
- 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

6 COLOR



Black Powder Coat Finish (Standard)

316 Marine Grade Stainless Steel

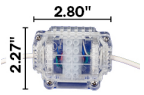
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QOM-eLED+IA

12V or 24V DC Power Supply - 60W–400W

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5



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

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QOM-eLED+IA

Installation Instructions

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

WARNING

Risk of Fire / Electric Shock 

Transformer should be installed by a Licensed electrician in accordance with the N.E.C. and all local codes in force.

LOW VOLTAGE LIGHTING SYSTEM & LANDSCAPE LIGHTING SYSTEMS

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

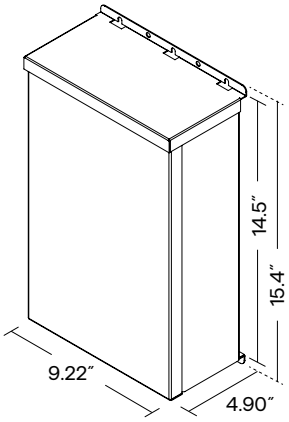
- Wear rubber shoes and work on a sturdy wooden or fiberglass ladder.
- This power supply must be installed according to the National Electric Code and local codes and ordinances.
- This power supply is to be installed and serviced only by an licensed electricians.
- This power supply is to be installed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

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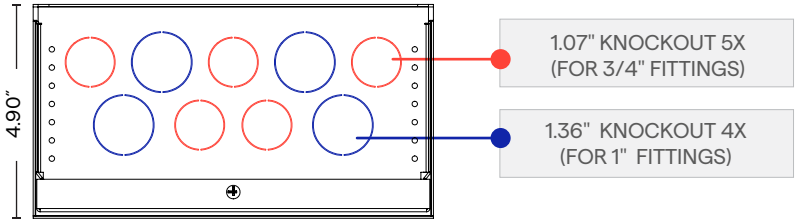
QOM-eLED+IA

Installation Instructions

Housing

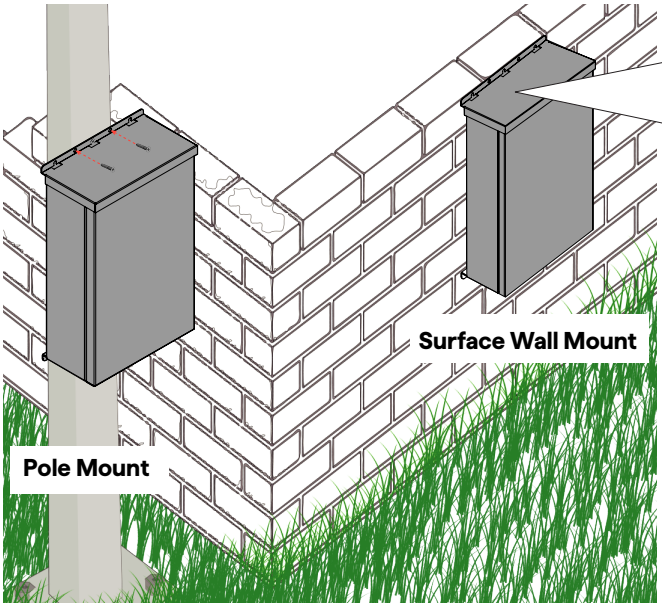


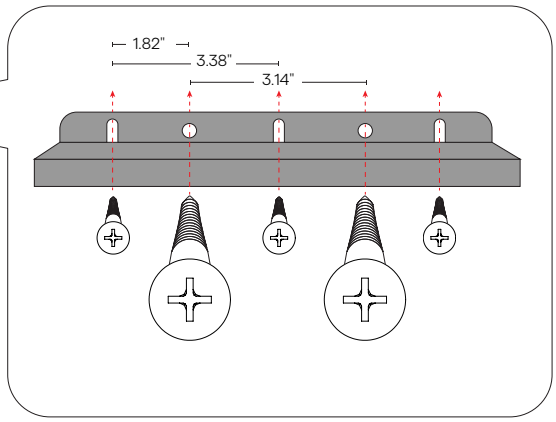
ISOMETRIC VIEW

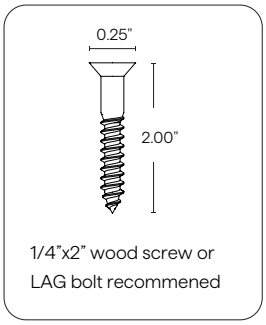


BOTTOM VIEW

Mounting Options







NOTE:

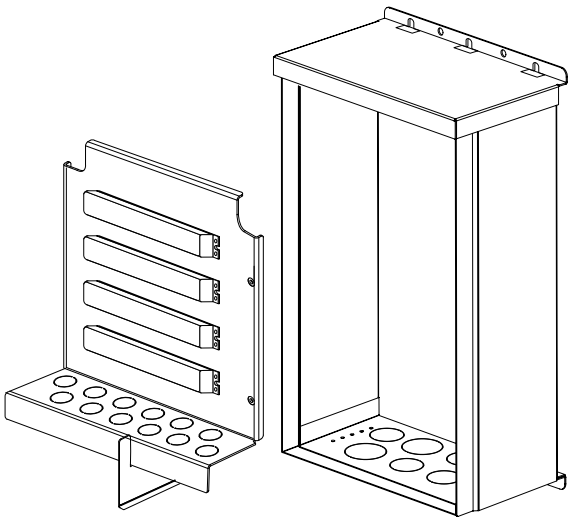
- To order additional lengths of wire for connection in the secondary. Please call factory for availability.
- QOM must be installed as shown.

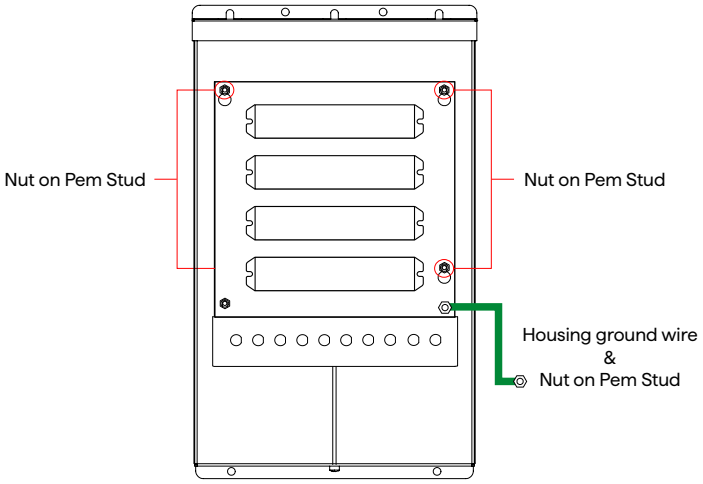
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QOM-eLED+IA

Installation Instructions

POWER TRAY INSTALL





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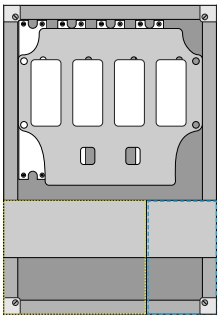
QOM-eLED+IA

Installation Instructions

Divider Fit

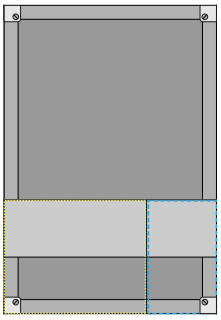
1. Standard **QTM** power supply.

Front View

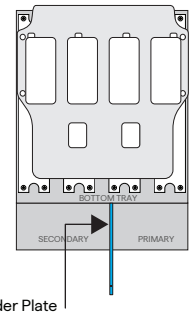


2. Remove power tray from housing. Unscrew from 4 locations.

Housing

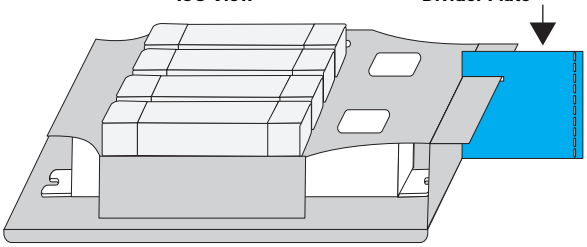


Tray Front View

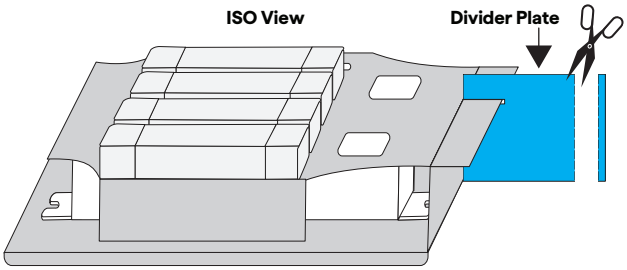


3. To fit the **QTM** in the **QOM** housing, the divider plate must be modified. Cut the divider plate with metal shears along the perforated line.

ISO View **Divider Plate**

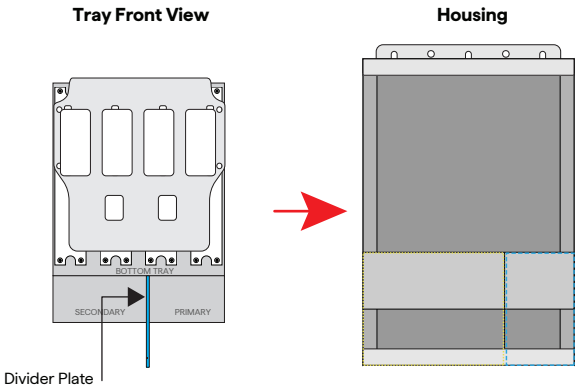


ISO View **Divider Plate**



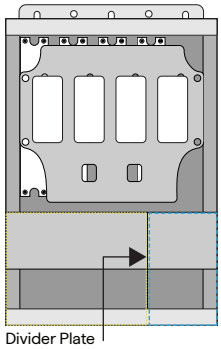
4. The modified power tray will fit in the **QOM** housing

Tray Front View **Housing**



5. Screw tray to housing in 4 locations.

Front View



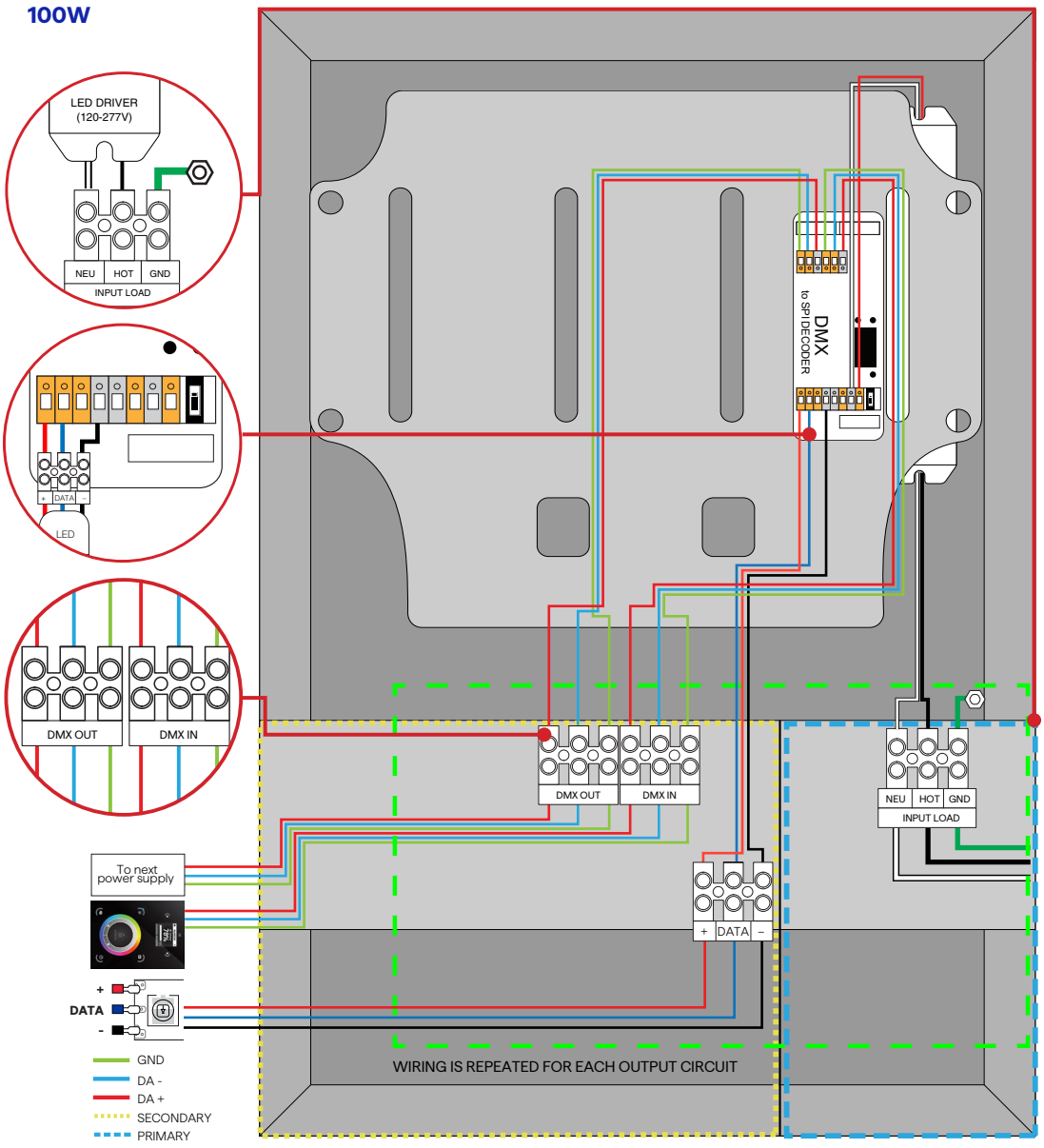
For QOM to QTM no modification is required. Uninstall QOM power tray and install in QTM housing.

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QOM-eLED+IA

Installation Instructions

WIRING DIAGRAM



Only for wiring purposes

NOTE:

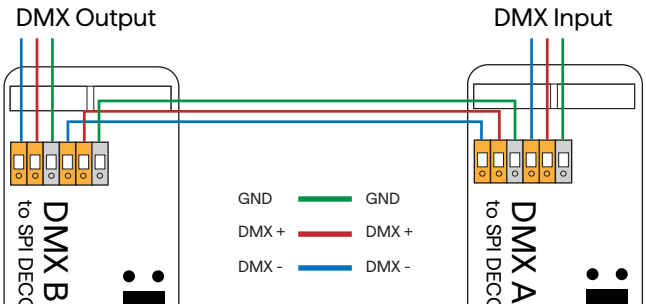
- DMX Shield must be grounded to earth ground at a single point external to power supply.
- Separate DMX universe per decoder configuration available upon request.

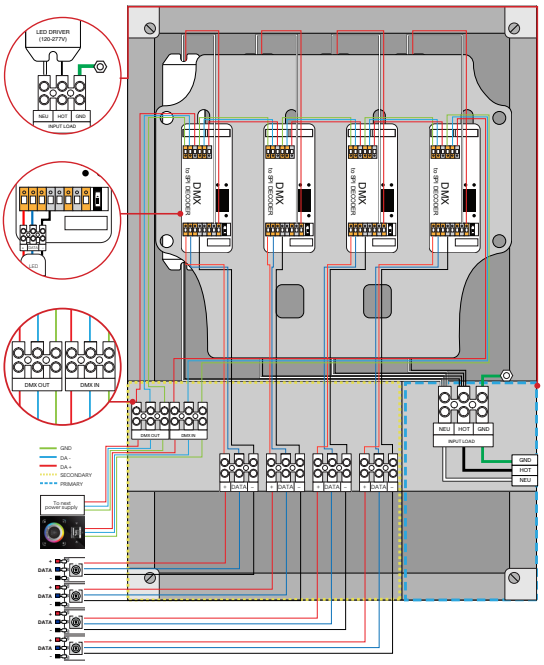
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QOM-eLED+IA

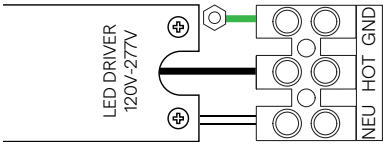
Installation Instructions

Connecting and Configuring the DMX-to-SPI decoder

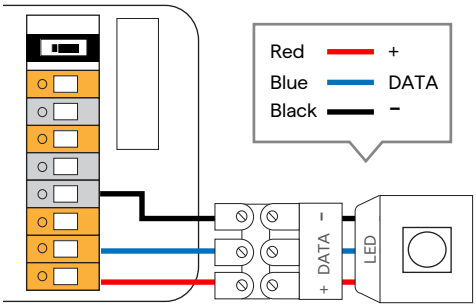




Primary Wiring

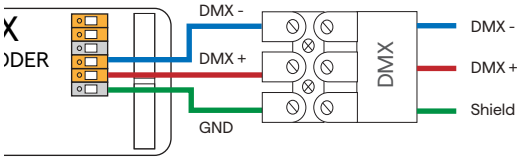


Wiring



Control Wiring

DMX connections



NOTE: DMX Shield must be grounded to Earth Ground at a single point external to power supply

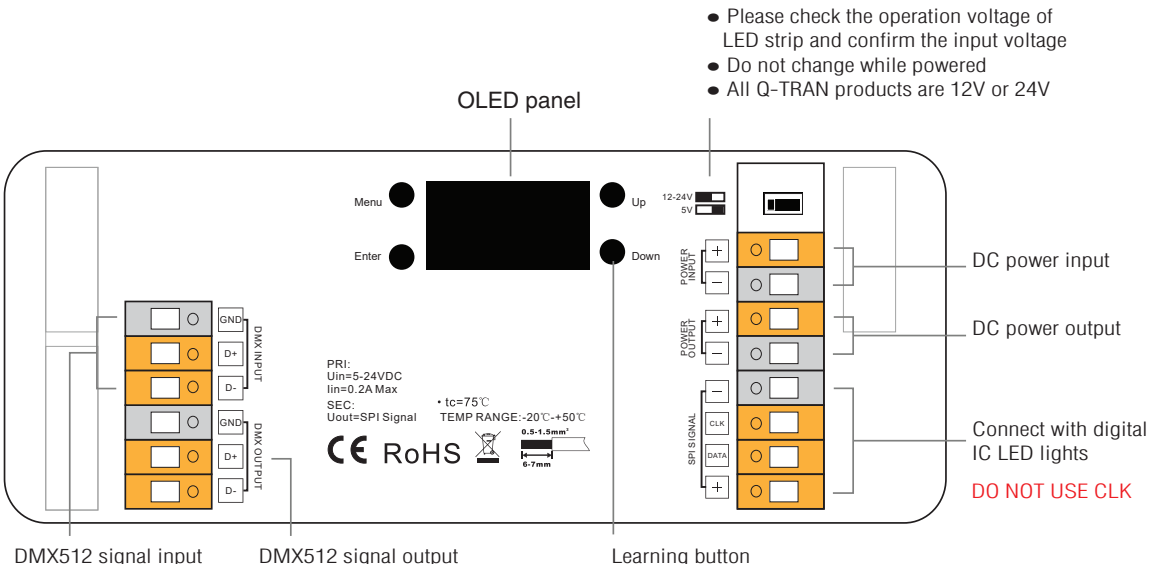
WARNING: Risk of electrical shock. May result in serious injury or death. Disconnect power before servicing or installing.

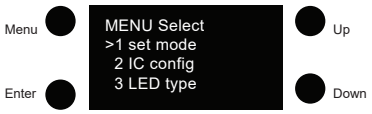
CAUTION: The device may only be connected and installed by a qualified electrician. All applicable regulations, legislation and building codes must be observed. Incorrect installation of the device can cause irreparable damage to the device and the connected LEDs.

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QOM-eLED+IA

Installation Instructions





There are four buttons for configuration of settings with the OLED display: “Menu,” “Enter,” “Up” and “Down,” Click “Menu” button to enter the menu selection interface, and keep clicking “Up” and “Down” buttons you will get 5 settings one by one as follows:



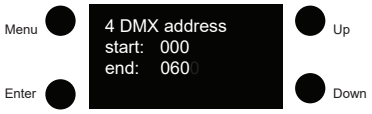
1. Set mode: to select an operation mode, click “Enter” button to enter the configuration interface, then click “Up” or “Down” buttons to choose DMX mode, click “Menu” button to confirm the setting and return to menu selection interface.
This setting should be in DMX mode for use with a DMX controller.



2. IC config: to set driving IC type, click “Enter” button to enter the configuration interface, click “Up” and “Down” buttons to choose an IC type that drives your LED lights, click the “Menu” button to confirm and return to menu selection interface. Total 34 kinds of driving IC available. **This should be set to WS2811L for all Q-Tran IA Products**



3. LED type: to set RGB/RGBW color order, click the “Enter” button to enter the configuration interface, click “Up” and “Down” buttons to choose a color order, click the “Menu” button to confirm and return to menu selection interface. Total 7 kinds of color order available. **The LED type should be RGB for SWIA, and RGB IA, while it should be RGBW for RGBW IA or RGBA IA**



4. DMX address: to set DMX address under DMX mode, click the “Enter” button to enter the configuration interface, the cursor will be on the “hundreds” position of the start address, click the “Up” and “Down” buttons to change the number, click the “Enter” button to confirm and move the cursor to “tens” position and set, then “units” position, and then the end address, and click the “Menu” button to confirm the setting and return to menu selection interface. **Should be set based on the number of addresses needed. 000 to 511 would allow maximum length.**



5. Output length: to configure total output channels, click the “Enter” button to enter the configuration interface, the asterisk is on the “thousands” position, click the “Up” and “Down” buttons to change the number, click the “Enter” button to confirm and move the asterisk to “hundreds” position and set, then “tens” position and “units” position, and click the “Menu” button to confirm and return to menu selection interface. The SPI controller supports max. 3060 output channels. **This should be set to 3060 to max to allow for longest control.**

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QOM-eLED+IA

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

INPUT VOLTAGE: ◯ 120V - 277V

OUTPUT VOLTAGE: ◯ 12V ◯ 24V

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

	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 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.QTLlighting

Low Voltage Luminaires Power Supply Center & LED Landscape Lighting System

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

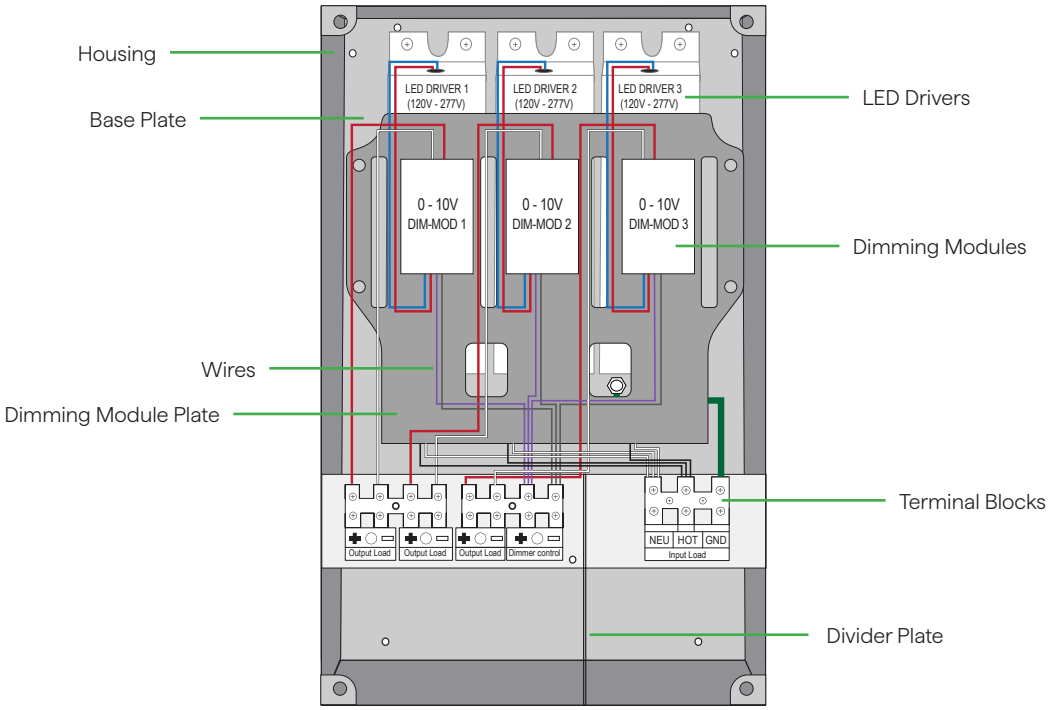
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MATERIAL RECYCLING

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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