QTM-eLED+DMX

24V DC Power Supply - 100W–400W



- Surface mount or recessed, interior rated LED power supply center.
- Utilizes a 100W constant voltage LED Driver and the LINEARdrive DMX decoder from eldoLED.
- Capable of handling up to 400W of power and control within a single enclosure, offering flexibility in lighting applications.
- Designed to accommodate RGB or RGBW wires for versatile lighting options.
- Provides plenty of flexibility and comes with all modules prewired together with terminal blocks for landing your LED and control wires.
- Suitable for indoor use with various lighting applications.

ORDERING PROCESS

A Specify housing

B Specify power supply tray details

A. HOUSING

A1 PRODUCT	A2 COLOR
QTM	

Sample Part Number: **QTM-WH**

B. POWER SUPPLY TRAY DETAILS

B1 PRODUCT	B2 WATTAGE	B3 PRIMARY VOLTAGE	B4 SECONDARY VOLTAGE	B5 CONTROL	B6 ASSEMBLY	B7 CORRELATED HOUSING COLOR
QTM-eLED		UNV	24VDC	DMX		

Sample Part Number: **QTM-eLED-100W-UNV-24VDC-DMX-FA-WH**

A1 PRODUCT

QTM

A2 COLOR

WH	White (Standard)
BK	Black Powder Coat Finish

B1 PRODUCT

QTM-eLED

B2 WATTAGE

100W	1 100W Driver
200W	2 100W Drivers
300W	3 100W Drivers
400W	4 100W Drivers

B3 PRIMARY VOLTAGE

UNV	Universal (120-277V)

B4 SECONDARY VOLTAGE

24VDC

B5 CONTROL

DMX

B6 ASSEMBLY

FA	Factory Assembled
NI	Not Installed

Select NI to receive the housing before the power supply tray ships.

B7 CORRELATED HOUSING COLOR

WH	White (Standard)
BK	Black Powder Coat Finish

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	✓

If using DW LED, wattage must be doubled

SHEETS

Q-SHEETS SW	
Q-SHEETS DW Tunable Applications	
Q-SHEETS DW Warm Dim Applications	
Q-SHEETS RGB	✓
Q-SHEETS RGBW	✓

If using DW LED, wattage must be doubled

MICRO 5

MICRO 5-SW	
MICRO 5-DW Tunable Applications	
MICRO 5-DW Warm Dim Applications	
MICRO 5-RGB	✓

If using DW LED, wattage must be doubled

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QTM-eLED+DMX

24V DC Power Supply - 100W–400W

PRODUCT INFORMATION

- Limited output voltage and current, plus isolation for safe operation
- Controllable with DMX decoder module
- DMX dimming down to 0.1%
- Fully potted driver(s) for moisture resistance
- Suitable for dry and damp locations
- Suitable for surface or recessed mounting use
- Primary voltage - universal (120-277V)
- Wide operating temperature range: -4˚F to 122˚F
- Fits up to (4): 100W 24 VDC driver(s) and DMX decoder 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
  - ANSI/UL standard2108 - Low Voltage Lighting Systems
  - CSA standard C22.2 No. 250.13-14 - Light Emitting Diode (LED) equipment for lighting applications
  - ANSI/UL standard8750 - Light Emitting Diode (LED) equipment for use in lighting products

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

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

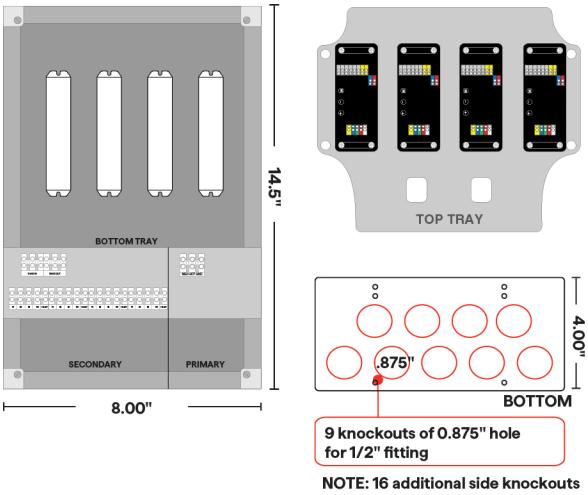
Distance from PS for 5% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	961	604	380	239	150	95	59	37	24
24	30	480	302	190	120	75	47	30	19	12
24	45	320	201	127	80	50	32	20	12	8
24	60	240	151	95	60	38	24	15	9	6
24	80	180	113	71	45	28	18	11	7	4
24	96	150	94	59	37	23	15	9	6	4

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QTM-eLED+DMX

24V DC Power Supply - 100W–400W

A1 PRODUCT - DIMENSIONS



B2 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

HOUSING

- 18 gauge welded steel enclosure: 14.5"W x 8.00"H x 4.00"D
- Door: 15.5"W x 9.00"H
- Knockouts: 25
- Built-in support bracket incorporated to secure housing for surface mounting

PERFORMANCE

- Suitable for surface or recessed mounting 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 DMX dimming
- Universal input range of 120-277Vrms
- Low Voltage Lighting Systems
  - CSA Class 3425-15 and Class 3425-95
  - 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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QTM-eLED+DMX

24V DC Power Supply - 100W–400W

SPECIFICATIONS

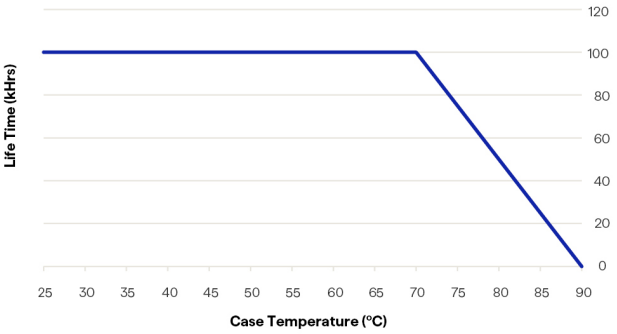
Input	24VDC		
Input Voltage (Vrms)	120	230	277
Input Current, max (Arms)	0.98	0.51	0.43
Inrush Current, max* (Apk)	-	20	-
Input Frequency (Hz)	50/60		
Input Power (Wmax)	117		

Output	RGB	RGBW
Output Voltage, nom (V)	24	24
Output Current (A) per channel	1.4	1.0
Output Power (Wmax)	100	100
Output Power (Wmax) per channel	60	60

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

*-200us event

Life Time vs. Case Temperature



PROTECTIONS

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

COMPLIANCE

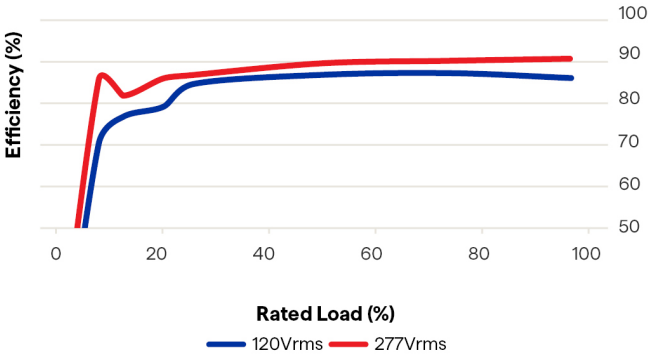
- EMI Spec
  - FCC 47 Part 15
  - EN61000-3-2
- CSA Certified
  - UL-2108
  - UL-8750
  - CSA C22.2 No 250.0-08
  - CSA C22.2 No 250.13-14

A2 COLOR

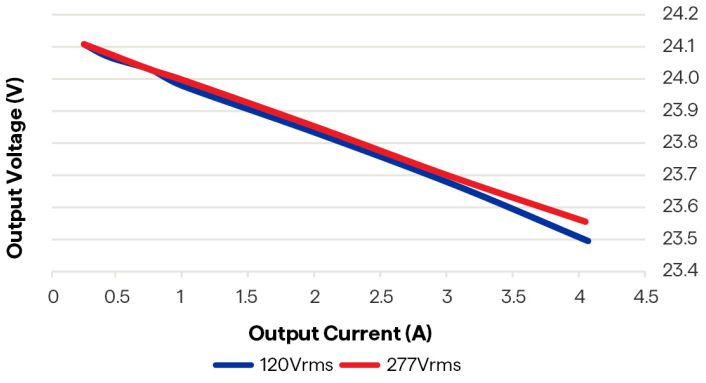
Black Powder Coat Finish

White (Standard)

Efficiency, 24VDC



Vout vs. Iout, 24VDC



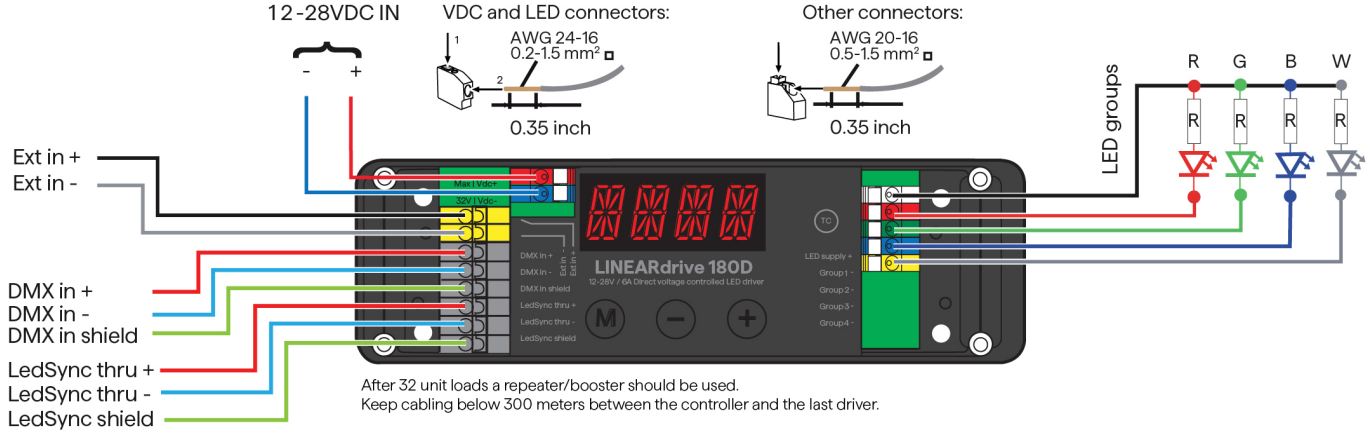
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QTM-eLED+DMX

24V DC Power Supply - 100W–400W

WIRING DIAGRAM



After 32 unit loads a repeater/booster should be used.
Keep cabling below 300 meters between the controller and the last driver.

12V - 28V DC IN

- To connect the driver to a DC power supply unit (PSU), connect the PSU's positive voltage supply wire to the VDC+ connector and the PSU's negative voltage supply wire to the VDC- connector.

EXT IN

- You have the possibility to connect an external control device (0-10V control device, 10kΩ potentiometer or show selection switch) to the driver's Ext in+ and Ext in - connector. Configure the driver for use with an external control device over the 3 - button user interface.

DMX IN/LEDSYNC OUT

- Use these connectors when the driver is used in a DMX network. For DMX in, connect the network cable's DMX+, DMX- and DMX shielding wire (the orange/white, orange and brown wire in a CAT5 cable) to the DMX in+, DMX in- and DMX in shield connector respectively. For LedSync out, connect the network cable's DMX+, DMX- and DMX shielding wire to the LedSync out+, LedSync out- and LedSync shield connector respectively. DMX Shield must be grounded to Earth ground at a single point external to power supply

LED GROUPS

- Indicates the location of the connectors for your LED groups. R(ed) represents channel 1, G(reen) represents channel 2, B(lue) represents channel 3 and W(hite) represents channel 4. The default group color allocation can be changed over the 3-button user interface.

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5



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

COMPATIBLE CONTROL ACCESSORIES

DMX-US1	DMX-US3	UX8	iQ-DMX-STICK-CW4	iQ-DMX-STICK-DE3	iQ-DMX-STICK-GA2
					
DMX-based controller	DMX-based controller	Easy-to-use DMX-based controller	DMX controller for changing color & dimming	DMX controller for changing color & dimming	DMX controller for changing color & dimming

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QTM-eLED+DMX

Installation Instructions

- **Must be installed by licensed electrician.**
- **Installation must be in accordance with DMX512-A standard**
- **DMX Shield must be grounded to Earth Ground at a single point external to power supply**

⚠ 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.

RoHS COMPLIANT

C SP US

LOW VOLTAGE LIGHTING SYSTEM
CLASS: **3425-15**
3425-95

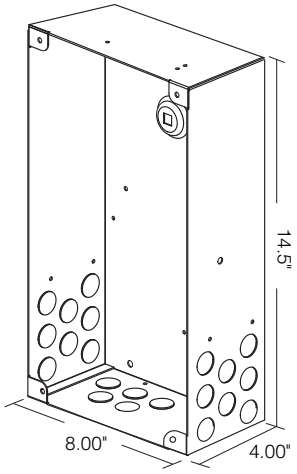
- Wear rubber shoes and work on a sturdy wooden or fiberglass ladder.
- This power supply must be installed according to the National Electric Code and local codes and ordinances.
- This power supply is to be installed and serviced only by an licensed electricians.
- This power supply is to be installed 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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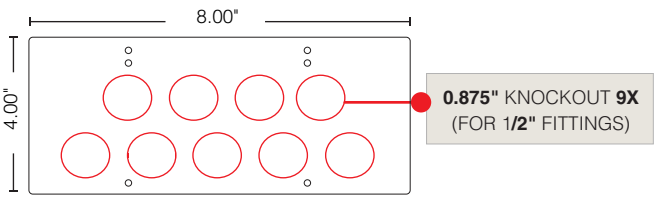
QTM-eLED+DMX

Installation Instructions

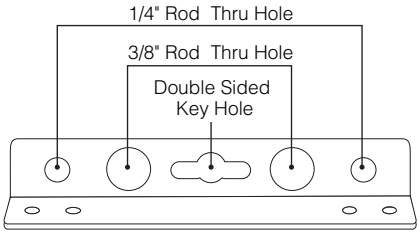
Housing



ISOMETRIC VIEW

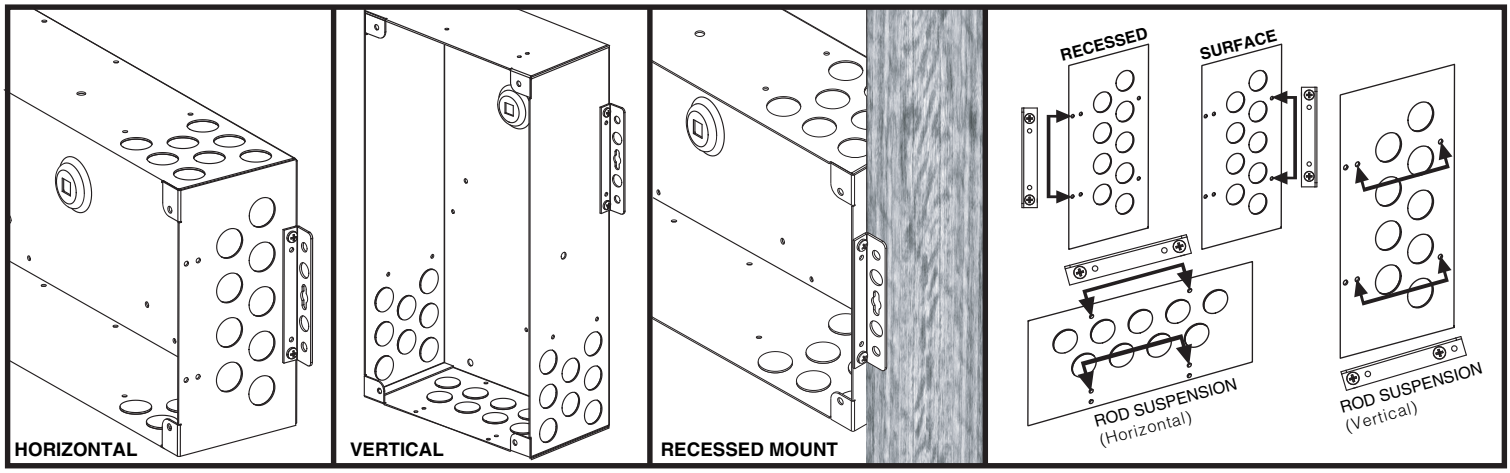


BOTTOM VIEW

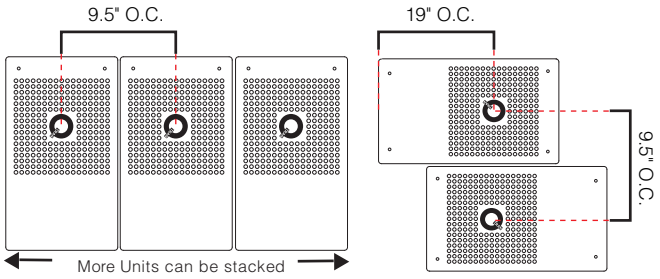


NOTE: Bracket can also be mounted (Top & Bottom) for Vertical Mounts.

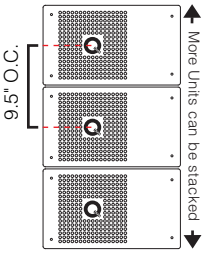
Mounting Options



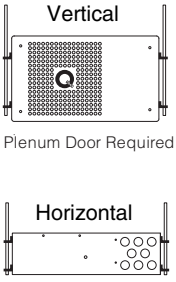
SURFACE SPACING



SURFACE STACKING



ROD SUSPENSION



NOTE: Rods not included.

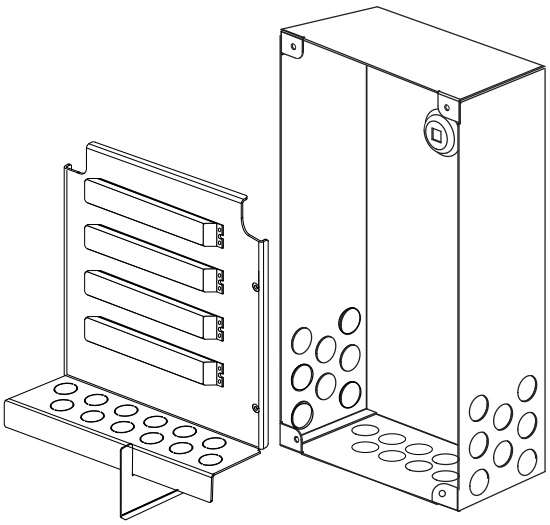
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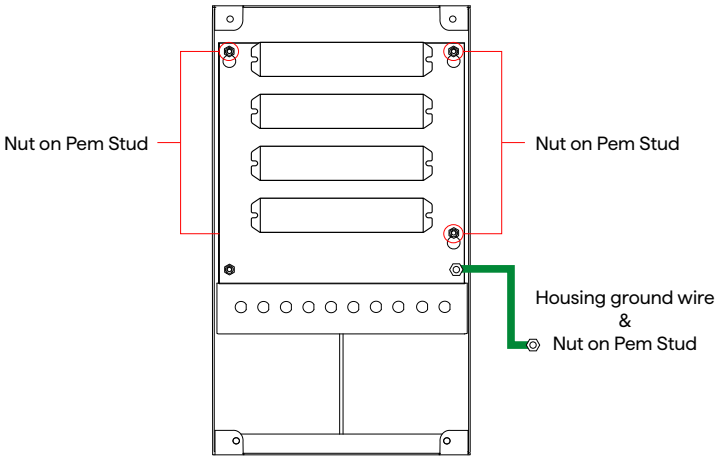
Specification subject to change. Rev-05-07-26

QTM-eLED+DMX

Installation Instructions

POWER TRAY INSTALL



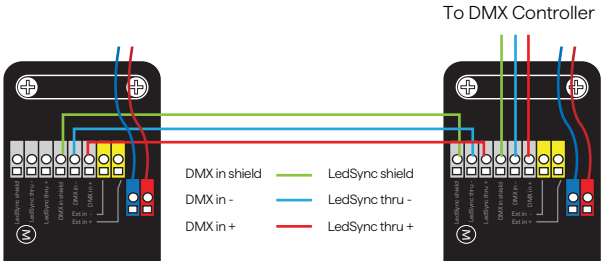


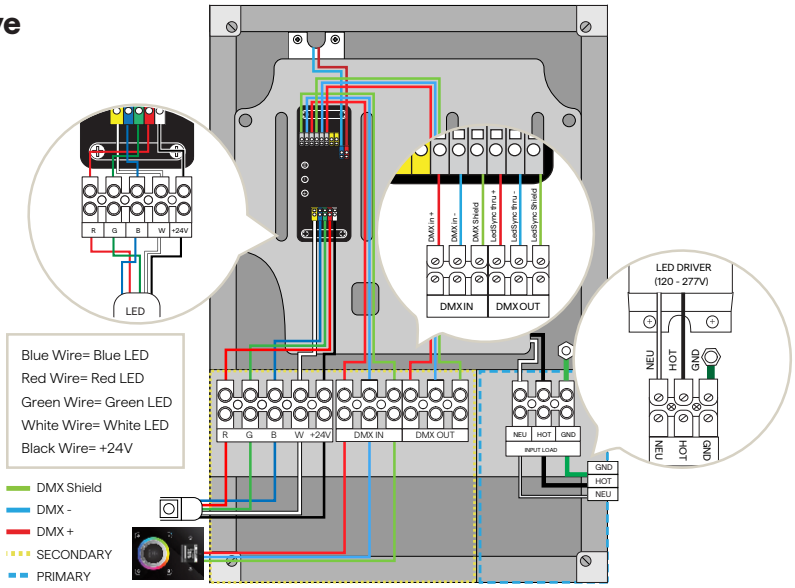
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QTM-eLED+DMX

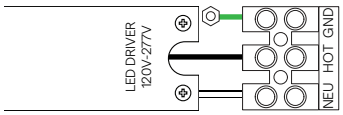
Installation Instructions

Connecting and Configuring the LINEARdrive 100D/180D





Primary Wiring



Commonly Asked Questions

1) **How can I verify my installation?**

Apply AC input, verify display turns on : This confirms AC input wiring

Run "Visual Test Run" : This verifies wiring of LEDs. Make sure LEDs turning on go in same order as the Test Run

2) **I don't have a controller yet, how can I keep my lights on?**

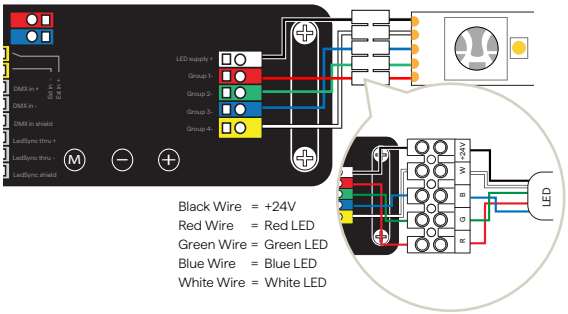
Change the Mode to "COLOR" : This allows to manually set a specific color to be on

Adjust the Hue or WHITE to achieve the desired color : This sets that specific color

3) M**y LEDs aren't coming out the right color.** They look like white has been added in Verify the Network Resolution "NETW RES" : Default is 8 BT

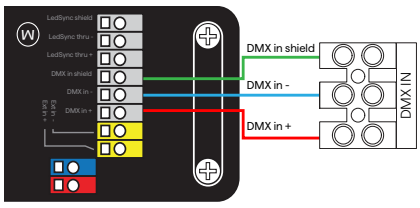
Check your DMX Programming. Stick controllers come with RGB programs by default. This will cause RGBW LEDs to show Pink vs. Red

Secondary Wiring



Control Wiring

DMX Connections



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.

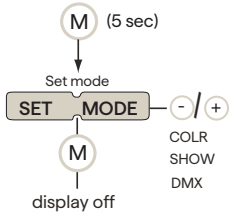
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QTM-eLED+DMX

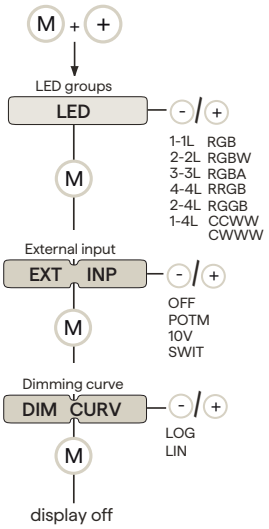
Installation Instructions

Manual Configuration

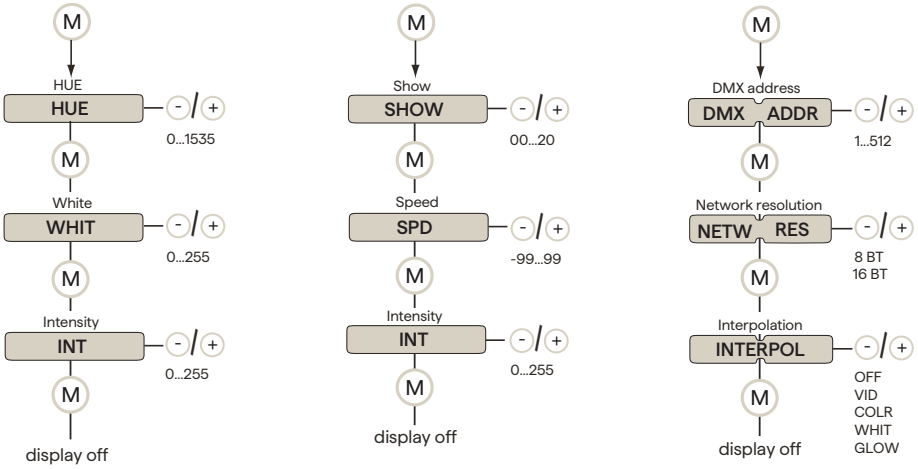
1. Select mode of operation:



2. Set LED groups:



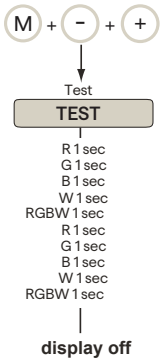
3. Standalone operation - Colour*- or Standalone operation - Show - or Networked operation - DMX -



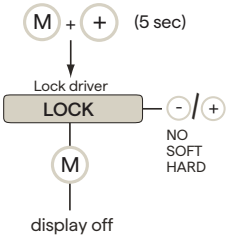
* The colour menu depends on the LED group settings you have selected in step 2.

Other Features

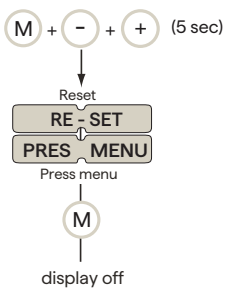
Visual test run



Locking the configuration:



Reset to factory defaults



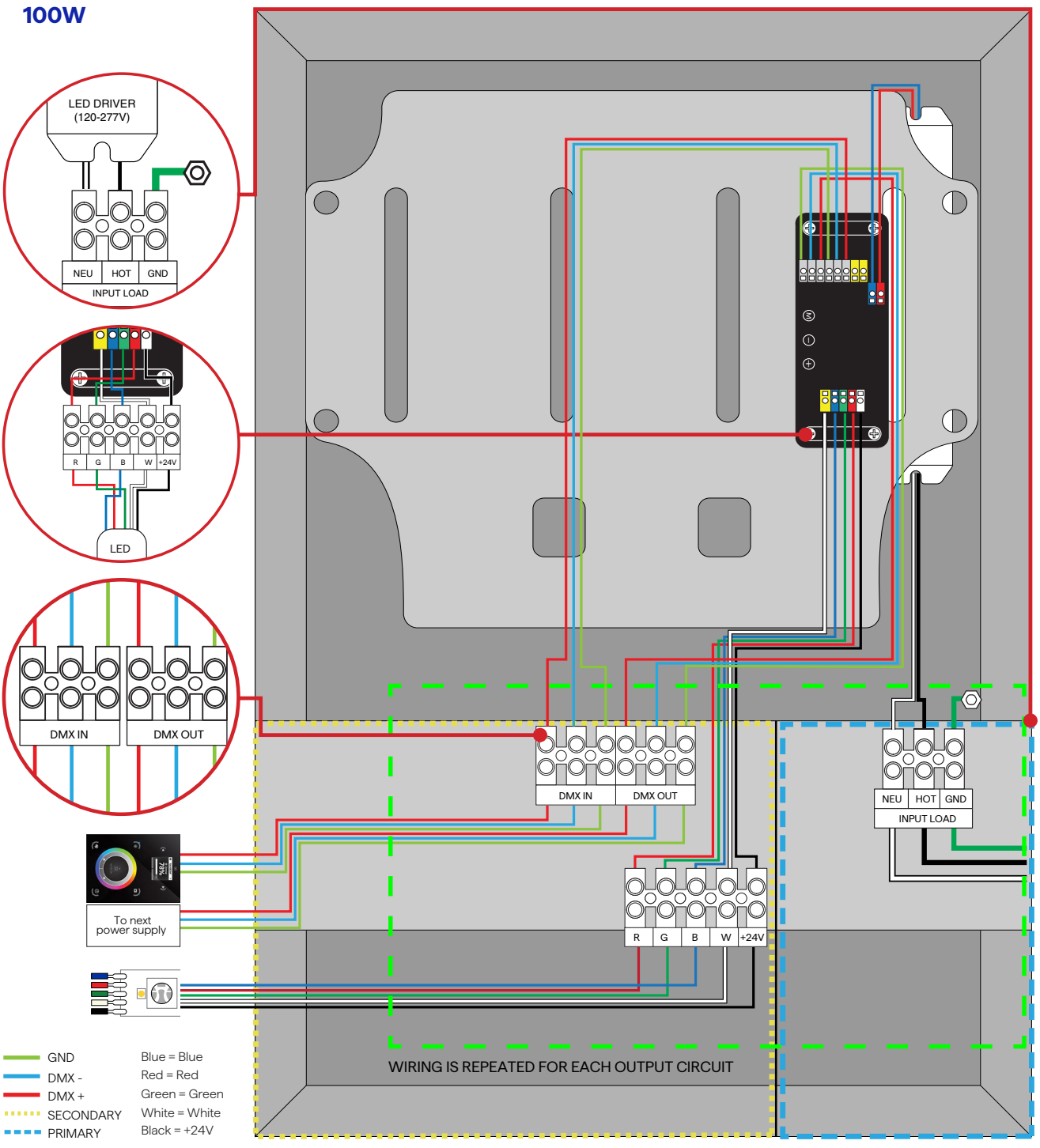
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QTM-eLED+DMX

Installation Instructions

WIRING DIAGRAM



Only for wiring purposes

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QTM-eLED+DMX

Installation Instructions

CSA Requirements

- Suitable for indoor 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.
- DMX shield wire must be grounded to earth ground at a single point external to power supply.

QTM-eLED

		INPUT VOLTAGE		OUTPUT VOLTAGE		CONTROL TYPE
		○ 120V - 277V		○ 12V	○ 24V	○ 0-10V
	Model	Input Voltage (V)	Input Current (A)	Frequency	Nominal Output Voltage (VDC)	Nominal Output Wattage (W)	○ DMX
○	QTM-eLED-60	120/277	0.60/0.29	50/60	12	60	○ WD
○	QTM-eLED-120	120/277	1.20/0.58	50/60	12	120	○ TW
○	QTM-eLED-180	120/277	1.80/0.87	50/60	12	180	○ IA
○	QTM-eLED-100	120/277	0.95/0.40	50/60	24	100	○ DALI-DT6
○	QTM-eLED-200	120/277	1.90/0.80	50/60	24	200	○ DALI-DT8
○	QTM-eLED-300	120/277	2.85/1.20	50/60	24	300	○ ND
○	QTM-eLED-400	120/277	3.80/1.60	50/60	24	400	
○	QTM-eLED-500	120/277	4.75/2.00	50/60	24	500	

- Type IC recessed, inherently protected
  TYPE IC ENCASTRE, PROTECTION INHÉRENTE
- For supply connections use wire rated for at least 60°C
  LES FILS D'ALIMENTATION 60°C MIN.
- Dimmer, if used, must be electronic low-voltage dimmer
  LE GRADATEUR, LE CAS ÉCHÉANT, DOIT ÊTRE UN GRADATEUR ÉLECTRONIQUE BASSE TENSION
- Suitable for damp locations
  CONVIENT AUX EMPLACEMENTS HUMIDES
- Wall mount only
  MONTAGE MURAL UNIQUEMENT
- 50/60 Cycle
  CYCLE 50/60
- 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.

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

CLASS: 3425 - 15
3425 - 95

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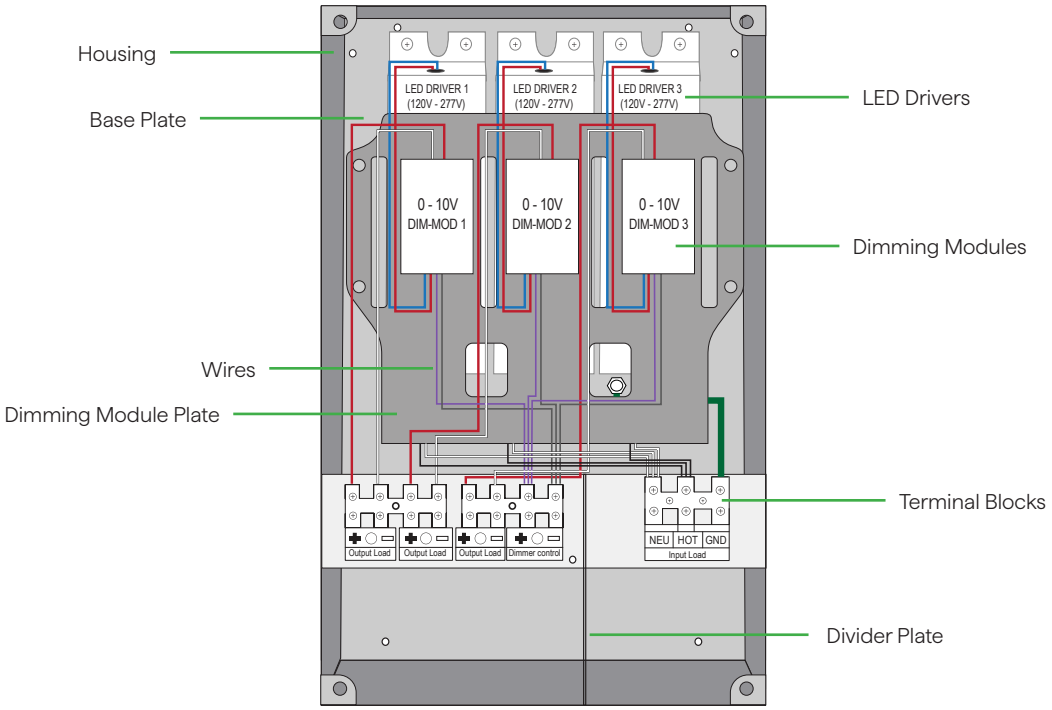
Specification subject to change. Rev-05-07-26

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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