QT-CAB-eLED+IA

12V or 24V DC Power Supply - 100W–700W



- Surface mount or recessed, interior rated LED power supply center.
- Type IC rated.
- 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 700W of power and control within a single enclosure, offering flexibility in lighting applications.
- 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
QT-CAB	

Sample Part Number: **QT-CAB-WH**

B. POWER SUPPLY TRAY DETAILS

B1 PRODUCT	B2 WATTAGE	B3 PRIMARY VOLTAGE	B4 SECONDARY VOLTAGE	B5 CONTROL	B6 ASSEMBLY	B7 CORRELATED HOUSING COLOR
QT-CAB-eLED				IA		

Sample Part Number: **QT-CAB-eLED-60W-UNV-12VDC-IA-NI-WH**

A1 PRODUCT

QT-CAB

A2 COLOR

WH	White (Standard)
BK	Black Powder Coat Finish

B1 PRODUCT

QT-CAB-eLED

B2 WATTAGE

100W	1 100W Driver
200W	2 100W Drivers
300W	3 100W Drivers
400W	4 100W Drivers
500W	5 100W Drivers
600W	6 100W Drivers
700W	7 100W Drivers
60W	1 60W Driver
120W	2 60W Drivers
180W	3 60W Drivers
240W	4 60W Drivers
300W	5 60W Drivers

B3 PRIMARY VOLTAGE

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

B4 SECONDARY VOLTAGE

24VDC

12VDC

B5 CONTROL

IA	Individually Addressable

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	

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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QT-CAB-eLED+IA

12V or 24V DC Power Supply - 100W–700W

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
- Fully potted driver(s) for moisture resistance
- Suitable for dry and damp locations
- Suitable for surface or recessed mounting use
- Type IC rated
- Primary voltage - universal (120-277V)
- Wide operating temperature range: -4˚F to 104˚F
- Storage temperature range: -40˚F to 185˚F
- Installation temperature range: -4˚F to 122˚F
- Fits up to (5): 60W 12VDC or (7): 100W 24VDC driver(s) and DMX-to-SPI decoder module(s)
- Up to (7) primary zones. Each output circuit has a dedicated AC input.
- 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 Systems
  - CSA standard C22.2 No. 250.13-14 - Light Emitting Diode (LED) equipment for lighting applications
  - ANSI/UL standard 8750 - 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 — 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

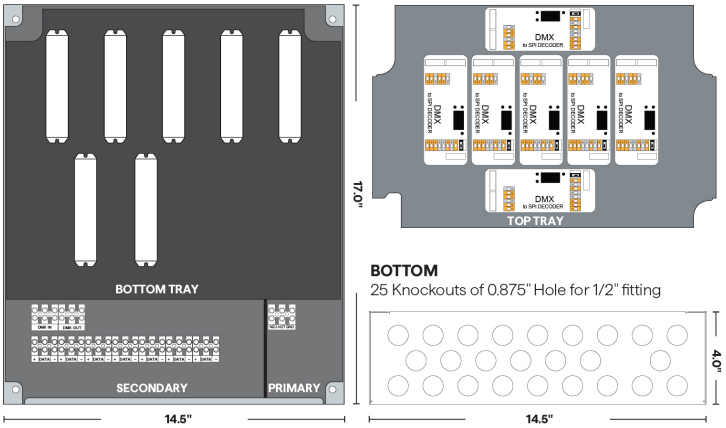
Distance from PS for 5% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
12	15	240	151	95	60	38	24	15	9	6
12	30	120	76	48	30	19	12	7	5	3
12	45	80	50	32	20	13	8	5	3	2
12	60	60	38	24	15	9	6	4	2	1

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QT-CAB-eLED+IA

12V or 24V DC Power Supply - 100W–700W

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
500W	5×100W	24VDC	4.75A	2.00A
600W	6×100W	24VDC	5.70A	2.40A
700W	7×100W	24VDC	6.65A	2.80A
60W	1×60W	12VDC	0.60A	0.29A
120W	2×60W	12VDC	1.20A	0.58A
180W	3×60W	12VDC	1.80A	0.87A
240W	4×60W	12VDC	2.40A	1.16A
300W	5×60W	12VDC	3.00A	1.45A

HOUSING

- 18 gauge welded steel enclosure: 14.5"W x 17.0"H x 4.00"D
- Door: 15.5"W x 18.0"H
- Knockouts: 25
- Bracket kit included for recessed or surface mounting.

PERFORMANCE

- Rated for surface mount or recessed use
- Type IC rated
- 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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QT-CAB-eLED+IA

12V or 24V DC Power Supply - 100W–700W

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

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

A2 COLOR

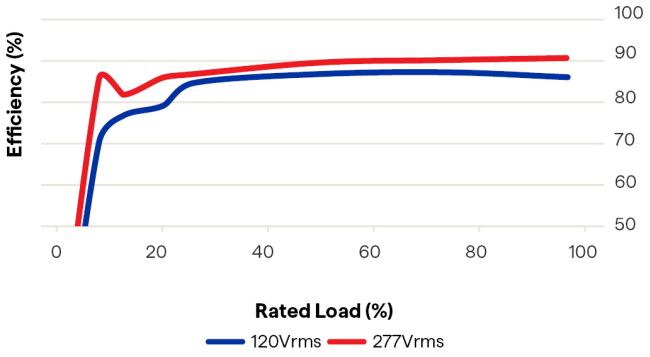
Black Powder Coat Finish

White (Standard)

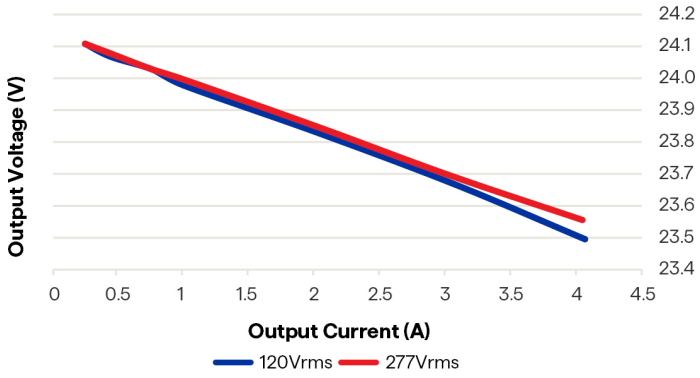
COMPLIANCE

- 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

Efficiency, 24VDC

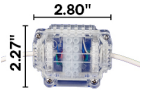


Vout vs. Iout, 24VDC



COMPATIBLE WIRING ACCESSORIES

Q-mini-J5



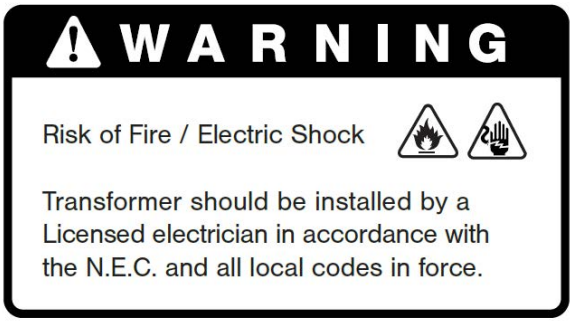
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

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QT-CAB-eLED+IA

LED Power Supply Installation Instructions

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



RoHS COMPLIANT

C SA US

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

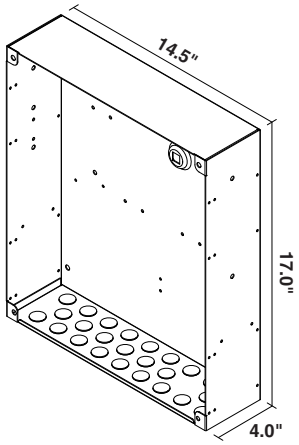
- Wear rubber shoes and work on a sturdy wooden or fiberglass ladder.
- This power supply must be installed according to the National Electric Code and local codes and ordinances.
- This power supply is to be installed and serviced only by an licensed electricians.
- This power supply is to be installed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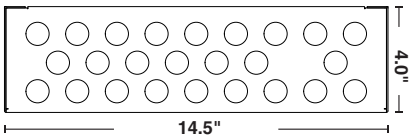
LED Power Supply Installation Instructions

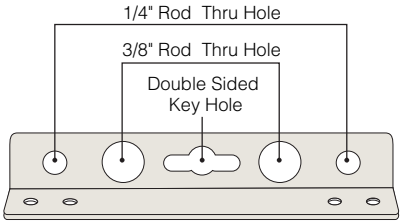
HOUSING



BOTTOM

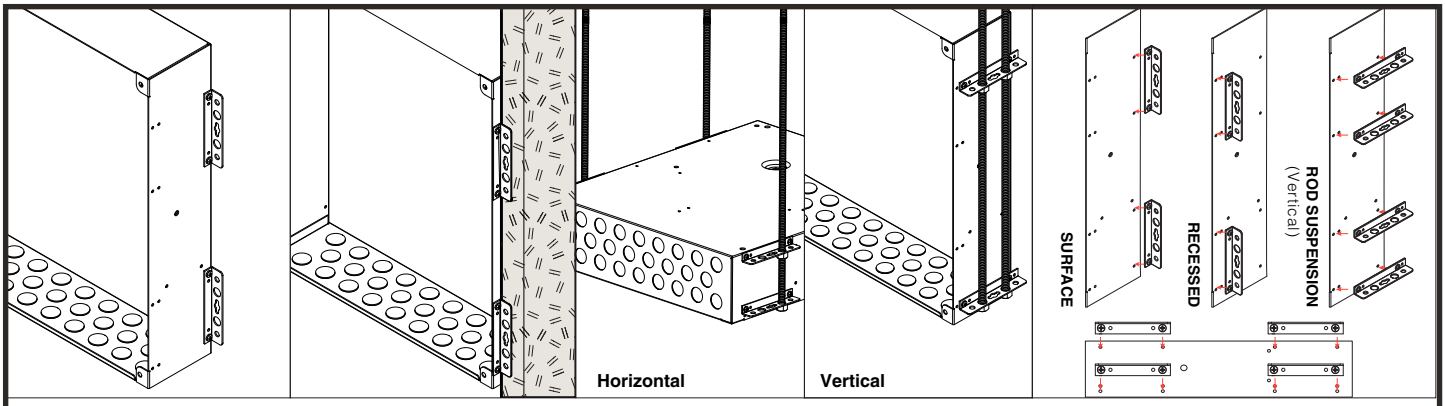
25 Knockouts of 0.875" Hole for 1/2" fitting





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

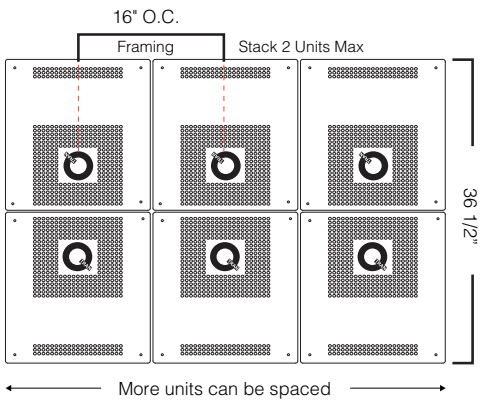
MOUNTING OPTIONS

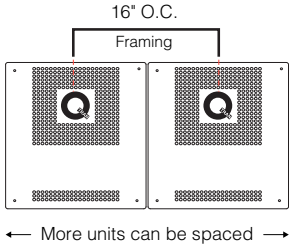


SURFACE MOUNT | **RECESSED MOUNT** | **ROD SUSPENSION MOUNT** (Comes with 4 brackets standard) | **ROD SUSPENSION** (Horizontal)

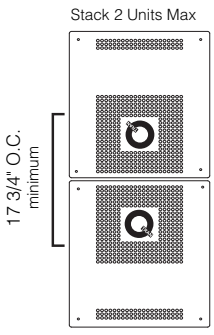
If the housing is installed prior to final construction, install included disposable cover to protect the housing from large debris, damage, and paint overspray. Remove disposable cover and clean out housing before installing electronics.

SURFACE SPACING

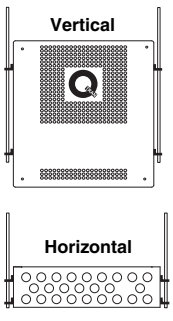




SURFACE STACKING



ROD SUSPENSION



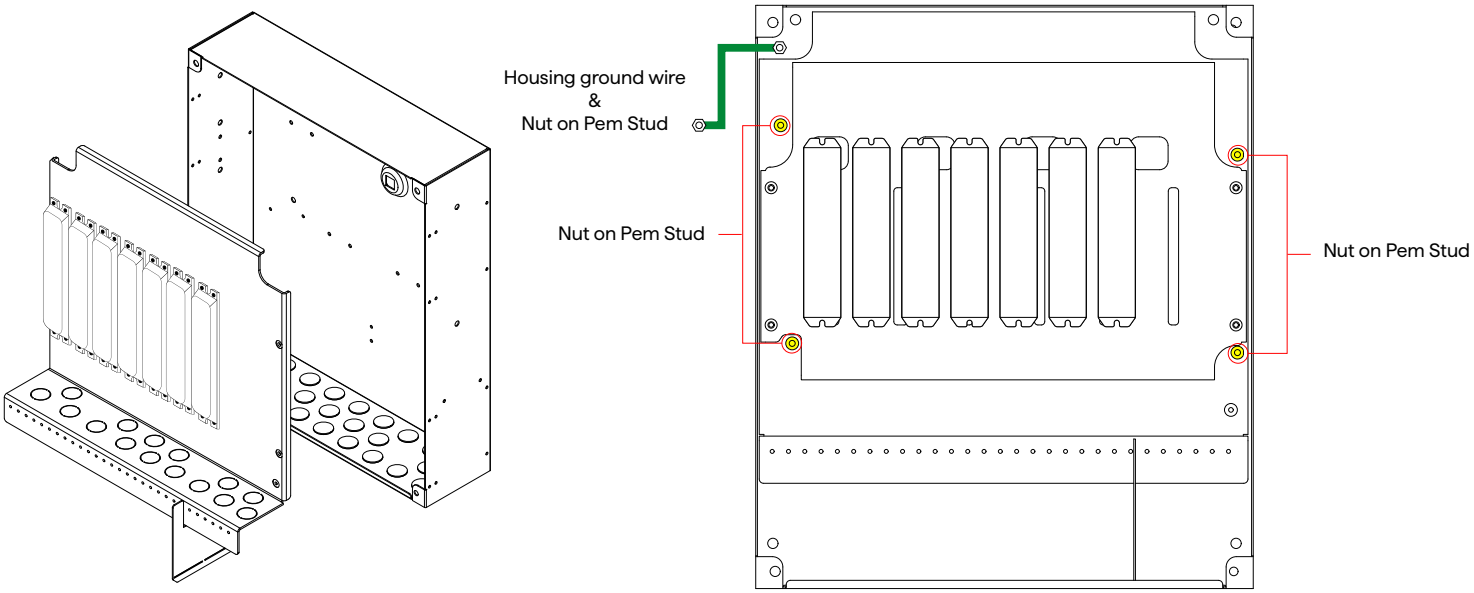
Plenum Door Required

NOTE: Rods not included.

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

POWER TRAY INSTALL

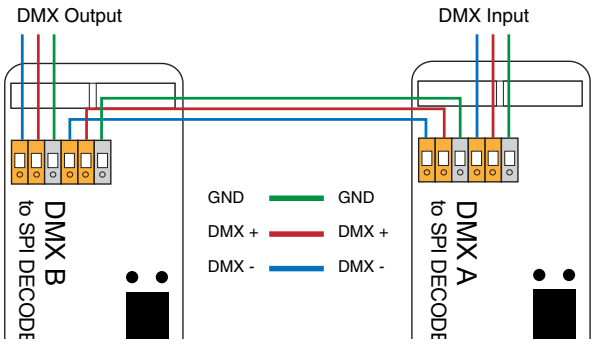


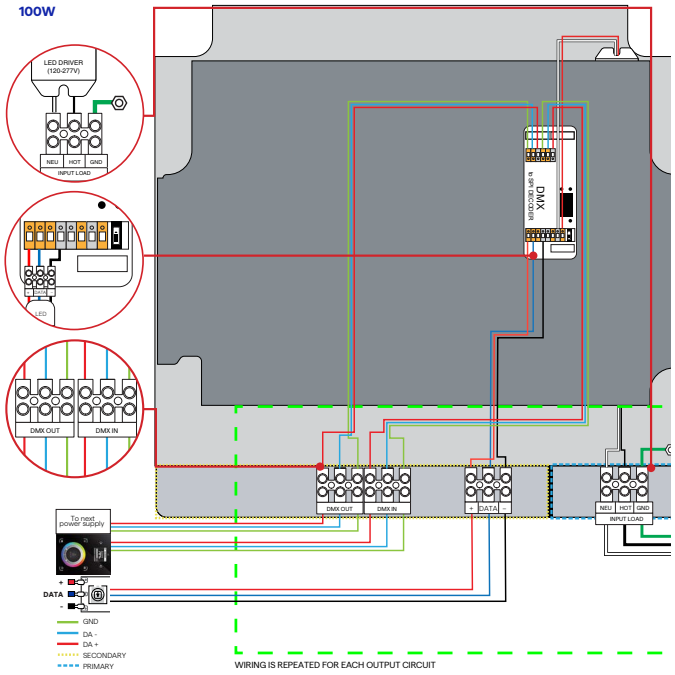
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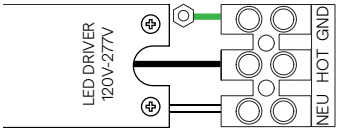
LED Power Supply Installation Instructions

CONNECTING AND CONFIGURING

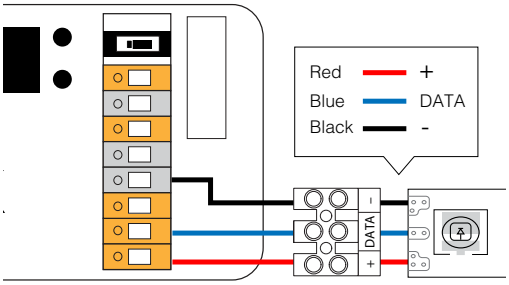




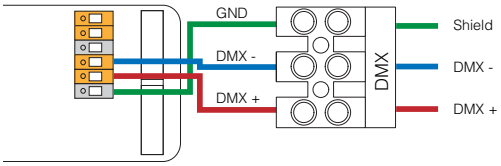
Primary Wiring



Secondary Wiring



Control Wiring



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.

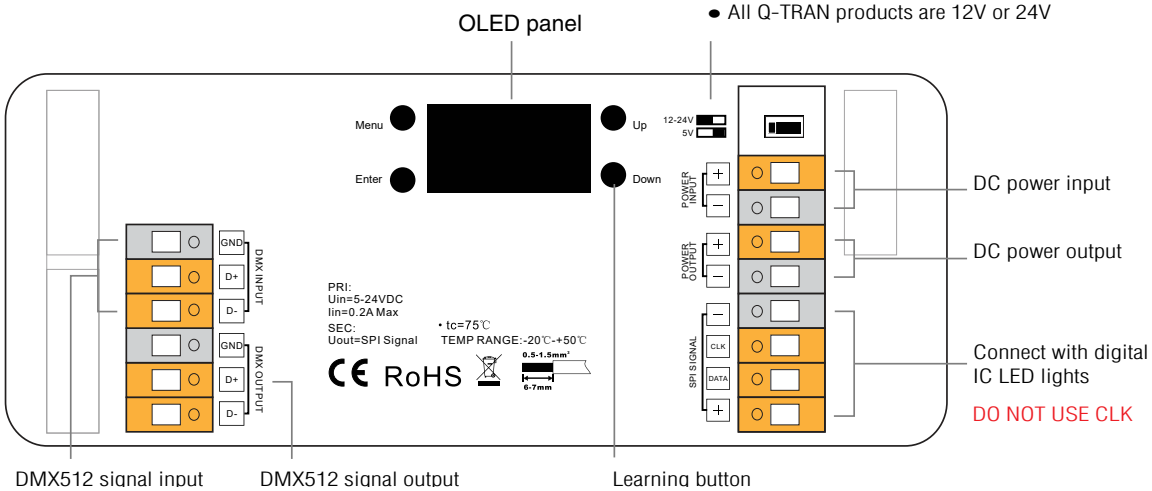
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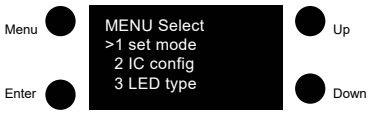
QT-CAB-eLED+IA

LED Power Supply Installation Instructions

MANUAL CONFIGURATION

- Please check the operation voltage of LED strip and confirm the input voltage
- Do not change while powered
- All Q-TRAN products are 12V or 24V





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.



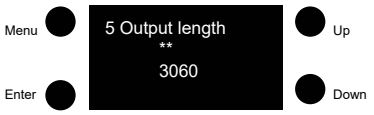
2. IC config: to set driving IC type, click “Enter” button to enter the configuration interface, click “Up” and “Down” buttons to choose an IC type that drives your LED lights, click the “Menu” button to confirm and return to menu selection interface. Total 34 kinds of driving IC available. **This should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



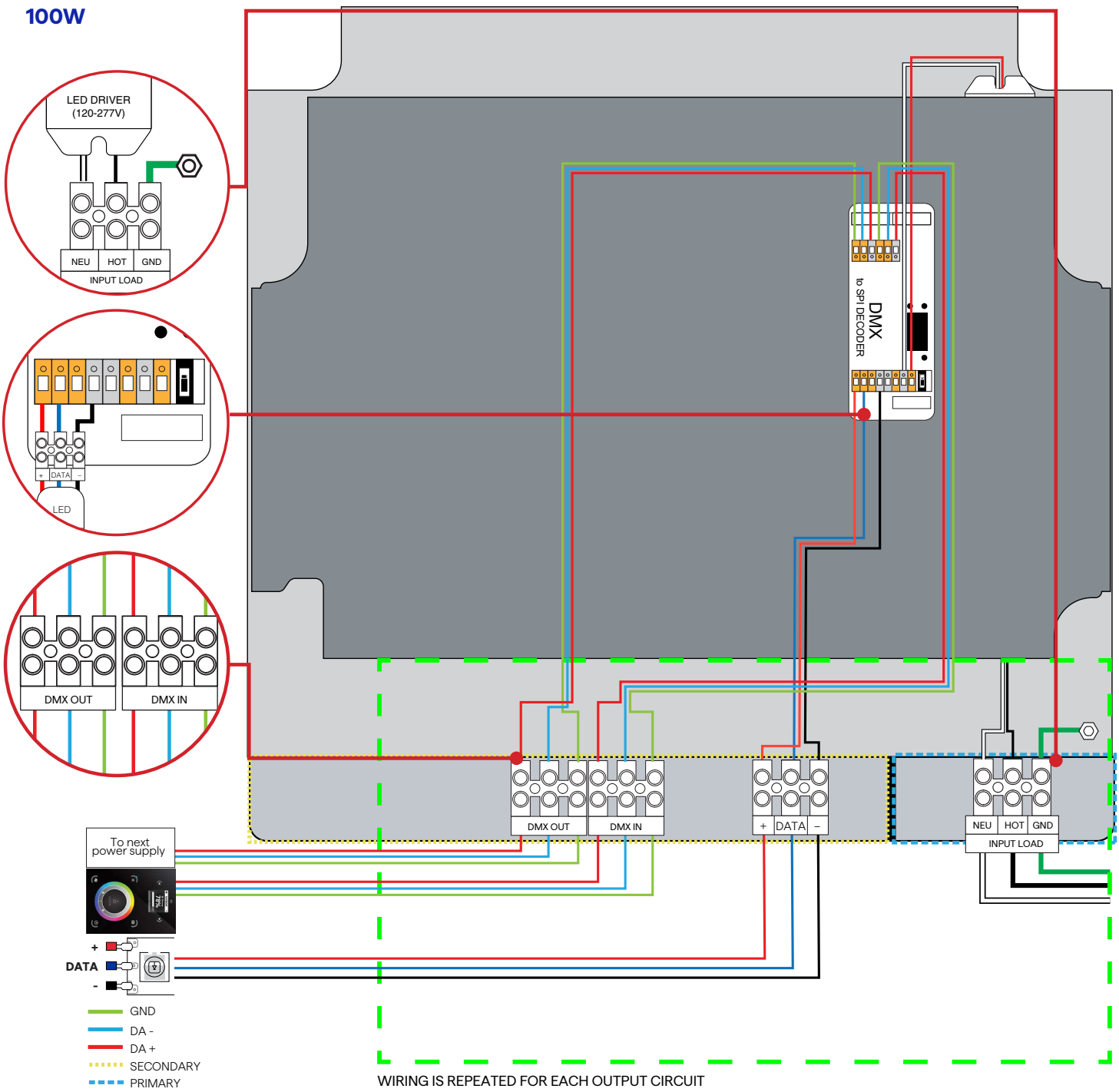
5. Output length: to configure total output channels, click the “Enter” button to enter the configuration interface, the asterisk is on the “thousands” position, click the “Up” and “Down” buttons to change the number, click the “Enter” button to confirm and move the asterisk to “hundreds” position and 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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QT-CAB-eLED+IA

LED Power Supply Installation Instructions

WIRING DIAGRAM



Only for wiring purposes

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

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.
- Do not connect two or more power supplies in parallel.
- Do not install output conductors longer than 15m.

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