QT-CAB-eLED+DALI-DT8

24V DC Power Supply - 100W–700W



- Surface mount or recessed, interior rated LED power supply center.
- Type IC rated.
- Utilizes UL Class 2 LED drivers with a 100W constant voltage.
- LED power supply for DALI 2 applications.
- Includes DALI-2 certified QTL DALI-2 DT8 control gear.
- Available in 100-700 watt capacity.
- The power supplies and decoders are all prewired together along with terminal blocks for power 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
QT-CAB	

Sample Part Number:
QT-CAB-WH

B. POWER SUPPLY TRAY DETAILS

B1 PRODUCT	B2 WATTAGE	B3 OUTPUT WIRING 1	B4 OUTPUT WIRING 2	B5 OUTPUT WIRING 3	B6 OUTPUT WIRING 4	B7 OUTPUT WIRING 5	B8 OUTPUT WIRING 6	B9 OUTPUT WIRING 7	B10 CONTROL	B11 PRIMARY VOLTAGE	B12 SECONDARY VOLTAGE	B13 ASSEMBLY	B14 CORRELATED HOUSING COLOR
QT-CAB-eLED									DALI-DT8	UNV	24VDC		

Sample Part Number: **QT-CAB-eLED-300W-3-3-3-N/A-N/A-N/A-N/A-DALI-DT8 -UNV-24VDC-FA-WH**

A1 PRODUCT

QT-CAB

A2 COLOR

WH White (Standard)
BK Black Powder Coat Finish

B1 PRODUCT

QT-CAB-eLED

For customization or pre-programming contact a local sales rep. DALI commissioning to be performed by a third party at time of installation.

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

B3 OUTPUT WIRING 1

3 3-Wire Light Engines
4 4-Wire Light Engines
5 5-Wire Light Engines

B4 OUTPUT WIRING 2

N/A

3 3-Wire Light Engines
4 4-Wire Light Engines
5 5-Wire Light Engines

B5 OUTPUT WIRING 3

N/A

3 3-Wire Light Engines
4 4-Wire Light Engines
5 5-Wire Light Engines

B6 OUTPUT WIRING 4

N/A

3 3-Wire Light Engines
4 4-Wire Light Engines
5 5-Wire Light Engines

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QT-CAB-eLED+DALI-DT8

24V DC Power Supply - 100W–700W

B7 OUTPUT WIRING 5

N/A
N/A
N/A
N/A
3 3-Wire Light Engines **4** 4-Wire Light Engines **5** 5-Wire Light Engines
3 3-Wire Light Engines **4** 4-Wire Light Engines **5** 5-Wire Light Engines
3 3-Wire Light Engines **4** 4-Wire Light Engines **5** 5-Wire Light Engines 3-Wire Light Engines 4-Wire Light Engines 5-Wire Light Engines

B8 OUTPUT WIRING 6

N/A
N/A
N/A
N/A
N/A
3 3-Wire Light Engines **4** 4-Wire Light Engines **5** 5-Wire Light Engines
3 3-Wire Light Engines **4** 4-Wire Light Engines **5** 5-Wire Light Engines 3-Wire Light Engines 4-Wire Light Engines 5-Wire Light Engines

B9 OUTPUT WIRING 7

N/A
N/A
N/A
N/A
N/A
N/A
3 3-Wire Light Engines **4** 4-Wire Light Engines **5** 5-Wire Light Engines 3-Wire Light Engines 4-Wire Light Engines 5-Wire Light Engines

B10 CONTROL

DALI-DT8

B11 PRIMARY VOLTAGE

UNV

B12 SECONDARY VOLTAGE

24VDC

B13 ASSEMBLY

FA	Factory Assembled
NI	Not Installed

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

B14 CORRELATED HOUSING COLOR

WH	White (Standard)
BK	Black Powder Coat Finish

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QT-CAB-eLED+DALI-DT8

24V DC Power Supply - 100W–700W

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 a 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 a 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 a DW LED, wattage must be doubled

PRODUCT INFORMATION

- Limited output voltage and current, plus isolation for safe operation
- Controllable by DALI 2 protocol
- DALI 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
- 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
- 3-Wire Light Engines: DW-HE
  4-Wire Light Engines: RGB
  5-Wire Light Engines: RGBW, RGBW-HE
- Fits up to (7): 100W 24 VDC driver(s) and DALI decoder module(s)
- Up to (7) primary zones. Each output circuit has a dedicated AC input
- Driver has Class A sound rating
- 5-year warranty
- 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

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QT-CAB-eLED+DALI-DT8

24V DC Power Supply - 100W–700W

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

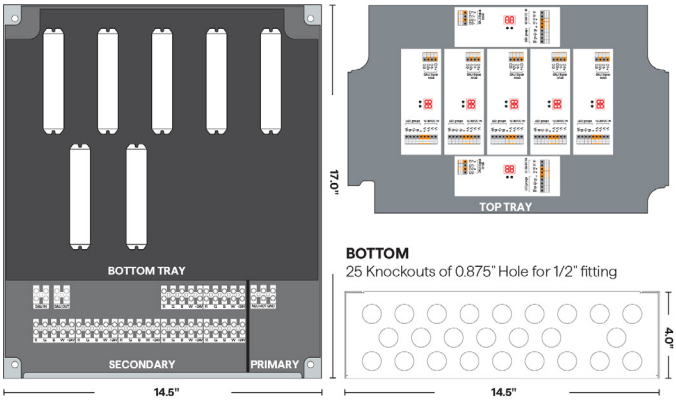
VOLTAGE DROP

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

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

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QT-CAB-eLED+DALI-DT8

24V DC Power Supply - 100W–700W

HOUSING

- 18 gauge welded steel enclosure: 14.5"W x 17.0"H x 4.0"D
- Door: 18.0"W x 15.5"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 DALI-2 DT-8 dimming
- Universal input range of 120-277 Vrms
- 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

SPECIFICATIONS PER 100W CIRCUIT

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	TW	RGB	RGBW
Output Voltage, nom (V)	24	24	24
Output Current (Amax) per channel	2	1.33	1
Output Power (Wmax) per decoder	100	100	100

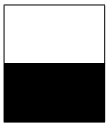
Environmental	Min	Nom	Max
THD (%)	-	-	20
PF (%)	0.90	-	-
Case Temp (°F)	-	-	90

*-200us event

PROTECTIONS

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

A2 COLOR



White (Standard)

Black Powder Coat Finish

COMPLIANCE

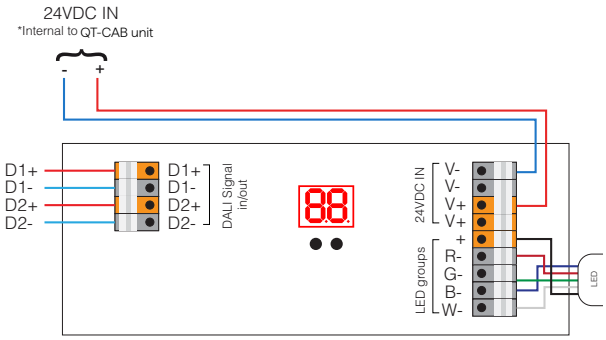
- EMI Spec
  - FCC 47 Part 15
  - EN61000-3-2
- CSA Certified
  - UL-2108
  - UL-8750
  - CSA C22.2 No 250.0-08
  - CSA C22.2 No 250.13-14

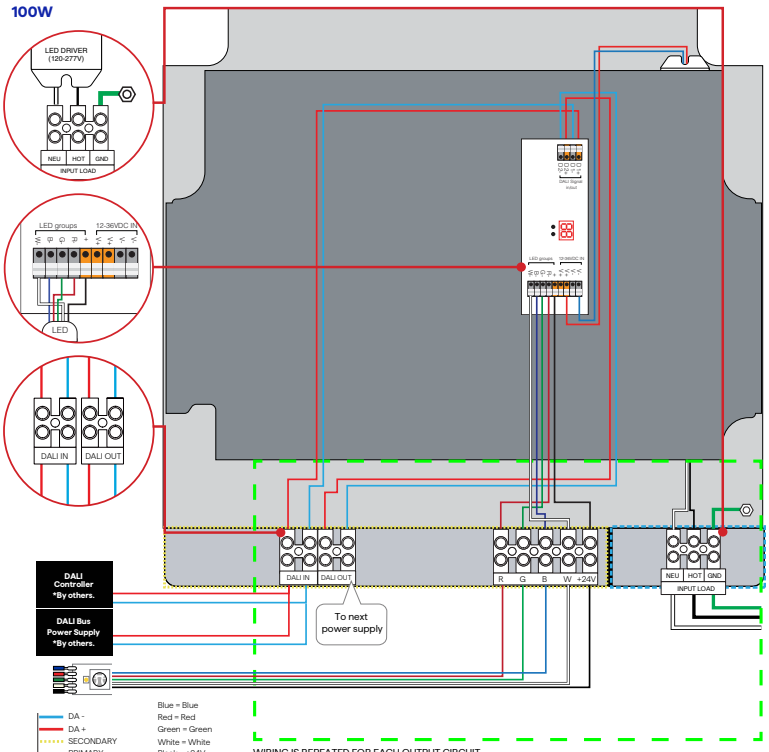
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QT-CAB-eLED+DALI-DT8

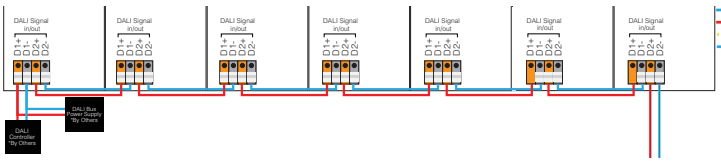
24V DC Power Supply - 100W–700W

WIRING DIAGRAM





To DALI Controller



DALI SIGNAL IN/OUT

- Use these connectors when the driver is used in a DALI network. For DALI in, connect the network cable's DALI+, to the D1+, and D1- connectors respectively. For DALI out, connect the network cable's DALI - to the D2+, and D2- connectors respectively.
- Separate DALI Bus power supply required. By others.
- Separate DALI Controller required. By others.

LED GROUPS

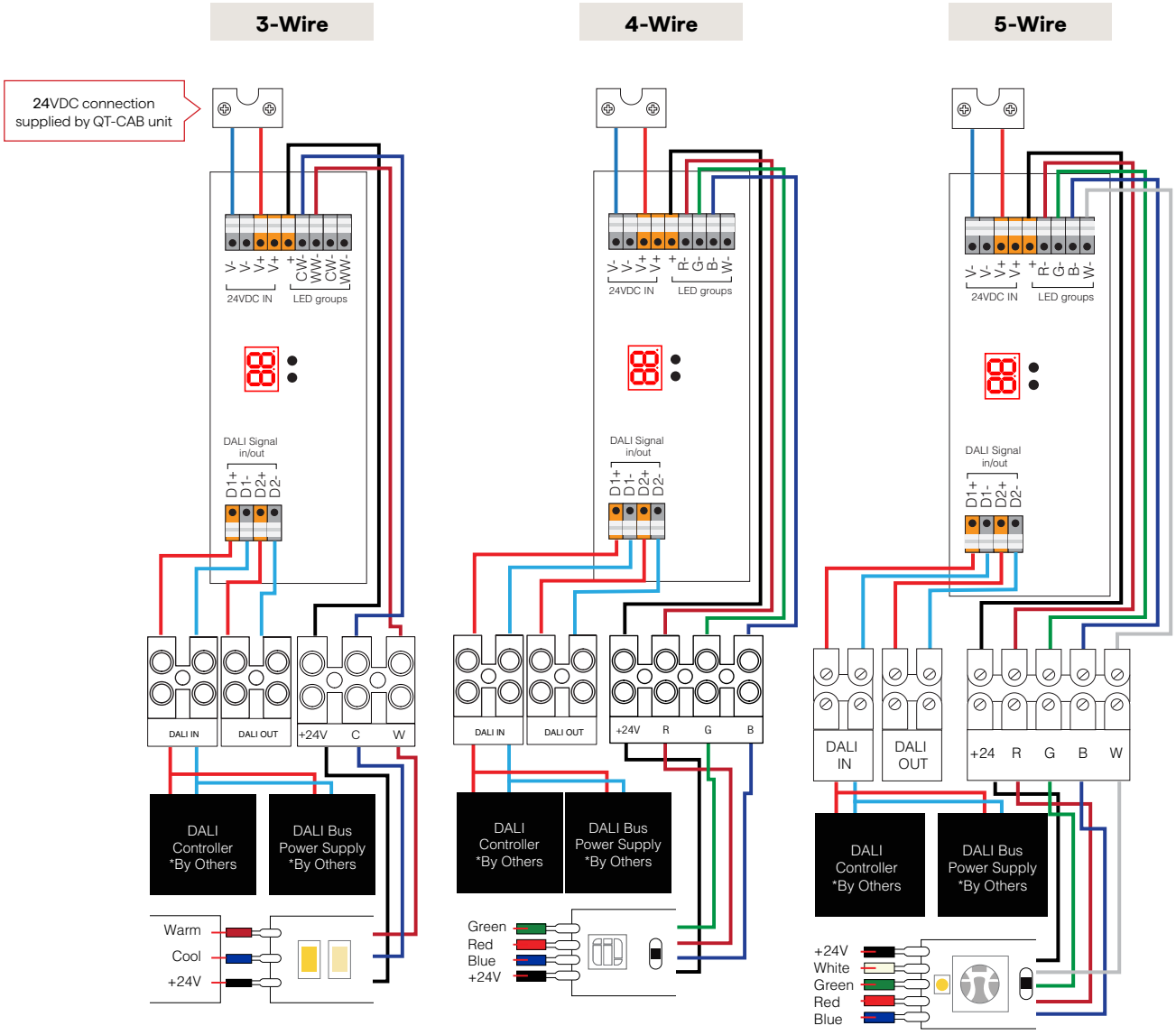
- Indicates the location of the connectors for your LED groups. The default group color allocation can be changed over the 2-button user interface. Make wire connections from the power supply to the terminal blocks, For 3-wire applications, WW- is wired to the Warm input on the terminal block, CW- is wired to the Cool input on the terminal block. For 4-wire applications, R- is wired to the R input on the terminal block, G- is wired to the G input on the terminal block, B- is wired to the B input on the terminal block. For 5-wire applications, R- is wired to the R input on the terminal block, G- is wired to the G input on the terminal block, B- is wired to the B input on the terminal block, W- is wired to the W input on the terminal block.

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QT-CAB-eLED+DALI-DT8

24V DC Power Supply - 100W–700W

OUTPUT WIRING CONFIGURATIONS



NOTE:

For customization or pre-programming contact a local sales rep.
DALI commissioning to be performed by a third party at time of installation.

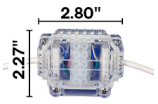
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QT-CAB-eLED+DALI-DT8

24V DC Power Supply - 100W–700W

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5



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

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QUICK START GUIDE

CONFIGURATION INSTRUCTION - DALI-2-DT8-TW

These are general guidelines for configuring QTL DALI-2 DT8 TW drivers for the required CCT range. Consult your DALI programmer/commissioning device manufacturer's guide for the specific steps.

1. When connecting the DA+/DA from your device to the QTL drivers, ensure that no other controllers are connected to the DA+ and DA- lines at the same time. See the next page for the wiring diagram.

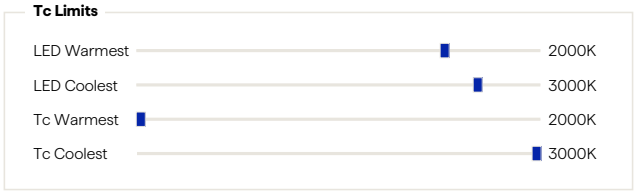
2. QTL DALI-2 drivers do not have integrated bus power supply. Therefore, DALI bus power must be provided by the programming device.

3. When addressing for custom CCT range configuration, multiple drivers may be connected simultaneously to a single controller/programming device.

4. The CCT range can be set in the "Tc Limits" section of the software interface accompanying the DALI-2 application controller.

5. In the "Tc Limits" section, LED Warmest and Tc Warmest should be set to the lowest CCT of the LED strip. LED Coolest and Tc Coolest should be set to the highest CCT of the LED CCT range.

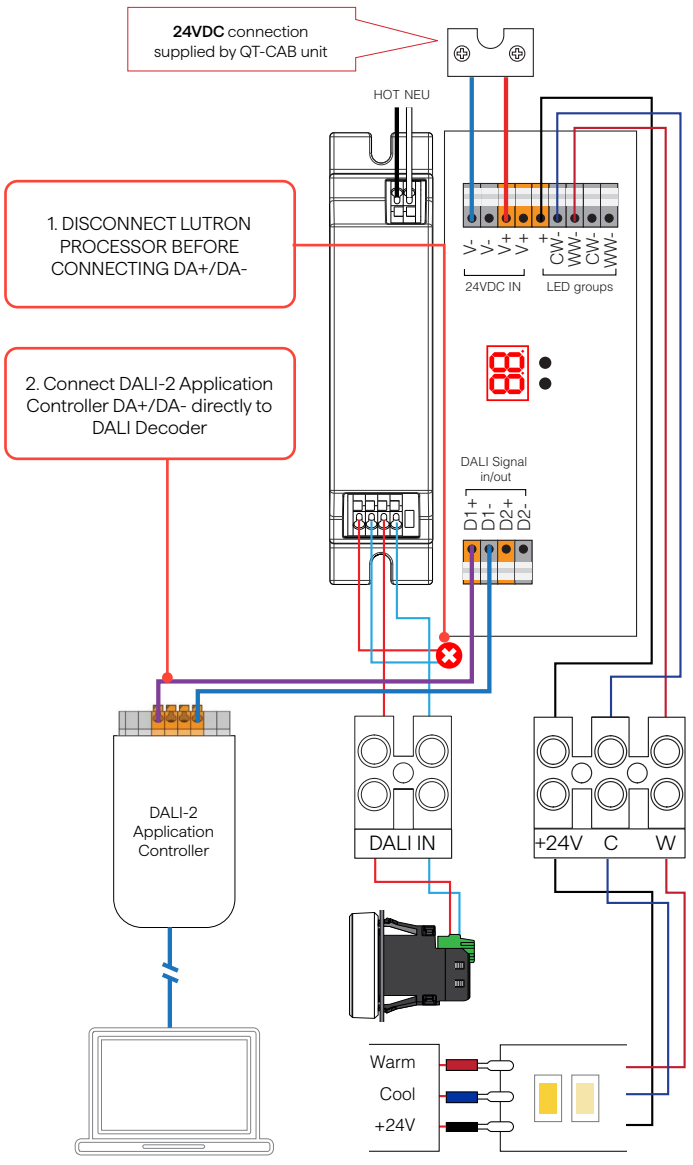
6. For example, if the LED CCT range is 2000K to 3000K (20/30), the LED Warmest and Tc Warmest should be set to 2000K. LED Coolest and Tc Coolest should be set to 3000K.



7. If the exact value cannot be selected, select the next value closest to the required limits. For warm, select the next lower value. For cool, select the next higher value.

8. Save the configured values to the driver by clicking on "write"/"save" or equivalent option in your software interface.

WIRING DIAGRAM



For use with QTL DALI-2 LED drivers only

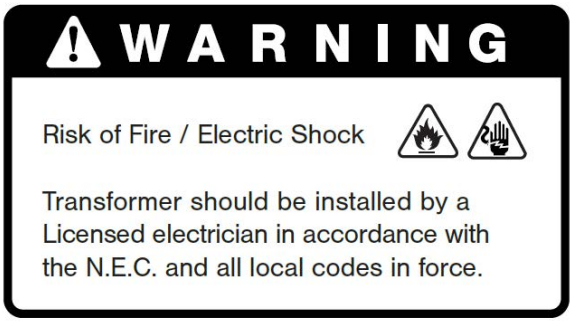
FOR POWER SUPPLIES WITH LUTRON ATHENA NODES, DISCONNECT LUTRON DC-OEM-DBI FROM THE DALI LINE BEFORE CONNECTING THE DALI-2 PROGRAMMER. RECONNECT AFTER ALL DEVICES ARE CONFIGURED.

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QT-CAB-eLED+DALI-DT8

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

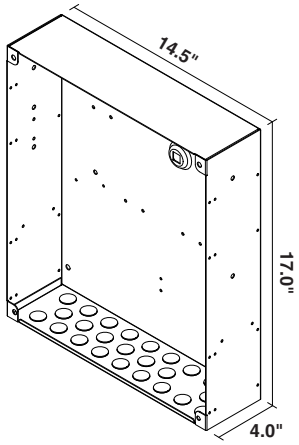
- Wear rubber shoes and work on a sturdy wooden or fiberglass ladder.
- This power supply must be installed according to the National Electric Code and local codes and ordinances.
- This power supply is to be installed and serviced only by an licensed electricians.
- This power supply is to be installed 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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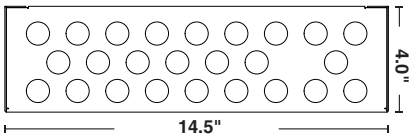
QT-CAB-eLED+DALI-DT8

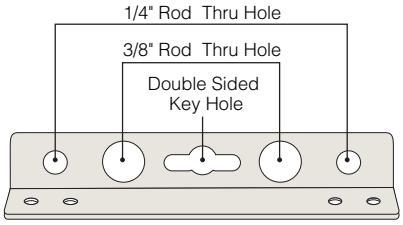
LED Power Supply Installation Instructions

HOUSING



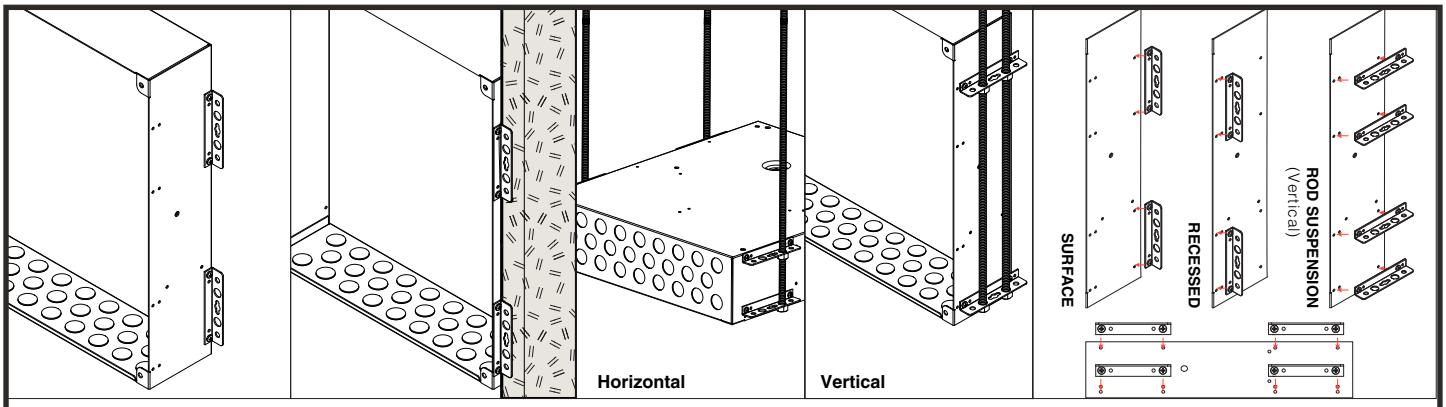
BOTTOM
25 Knockouts of 0.875" Hole for 1/2" fitting





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

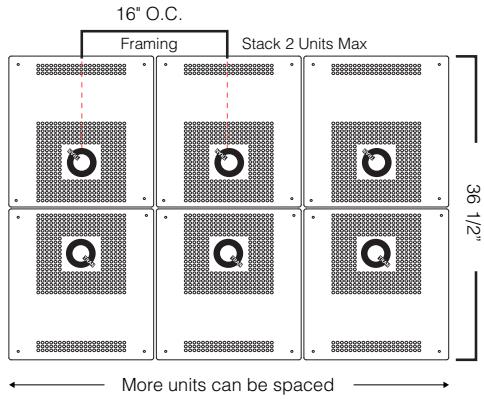
MOUNTING OPTIONS

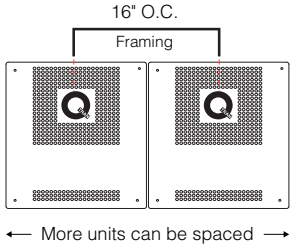


SURFACE MOUNT | **RECESSED MOUNT** | **ROD SUSPENSION MOUNT** (Comes with 4 brackets standard) | **ROD SUSPENSION** (Horizontal)

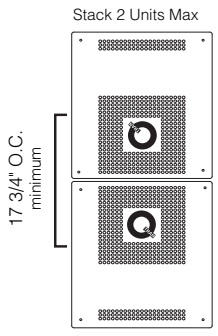
If the housing is installed prior to final construction, install included disposable cover to protect the housing from large debris, damage, and paint overspray. Remove disposable cover and clean out housing before installing electronics.

SURFACE SPACING

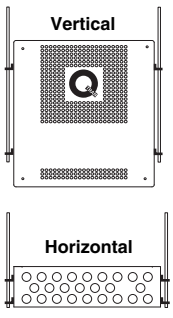




SURFACE STACKING



ROD SUSPENSION



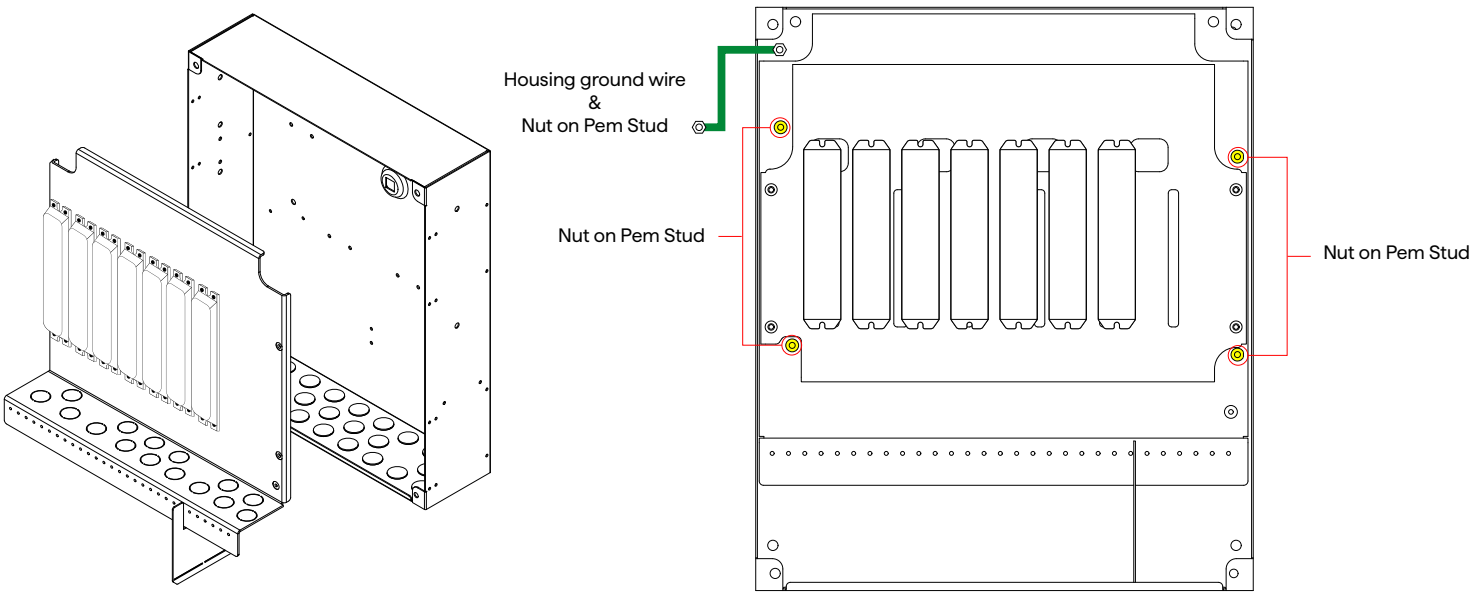
Plenum Door Required

NOTE: Rods not included.

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Specification subject to change. Rev-04-02-26

POWER TRAY INSTALL

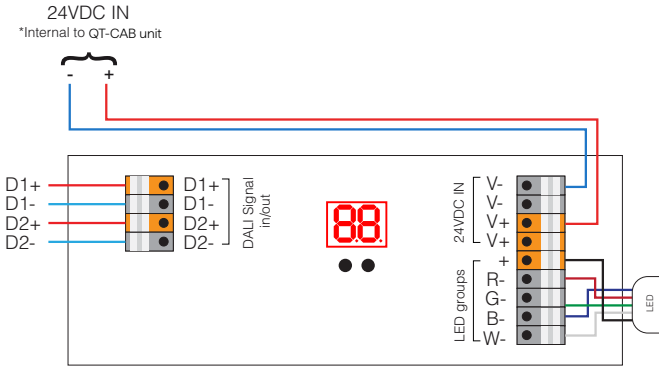


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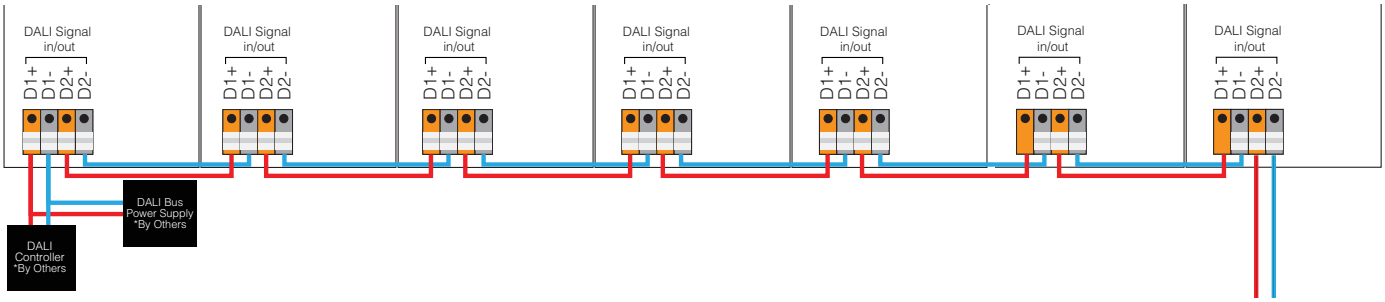
QT-CAB-eLED+DALI-DT8

LED Power Supply Installation Instructions

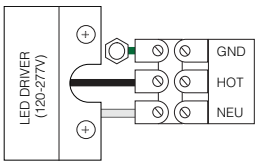
CONNECTING AND CONFIGURING



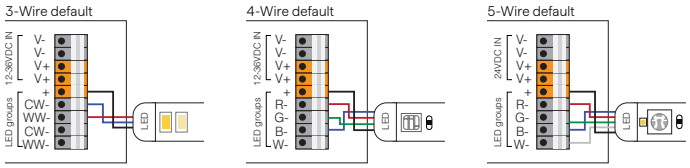
To DALI Controller



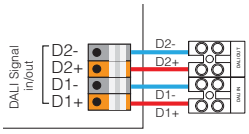
Primary Wiring



Secondary Wiring



Control Wiring



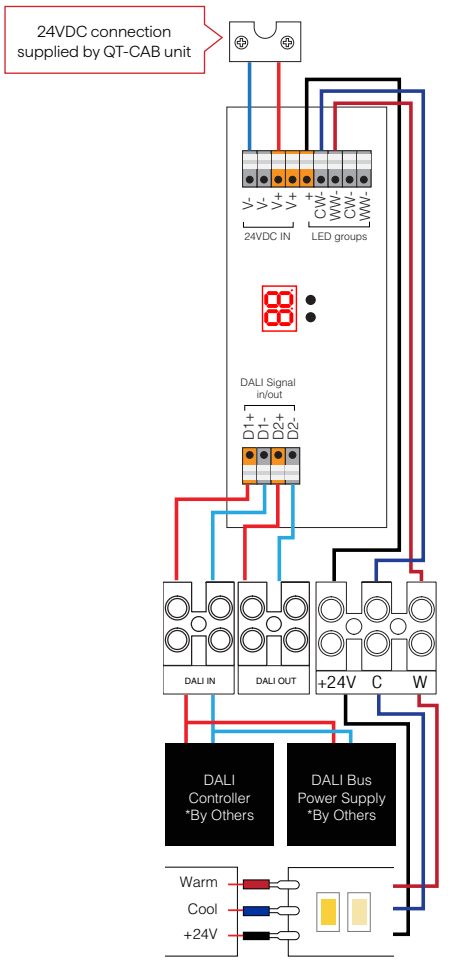
WARNING: Risk of electrical shock. May result in serious injury or death. Disconnect power before servicing or installing.

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.

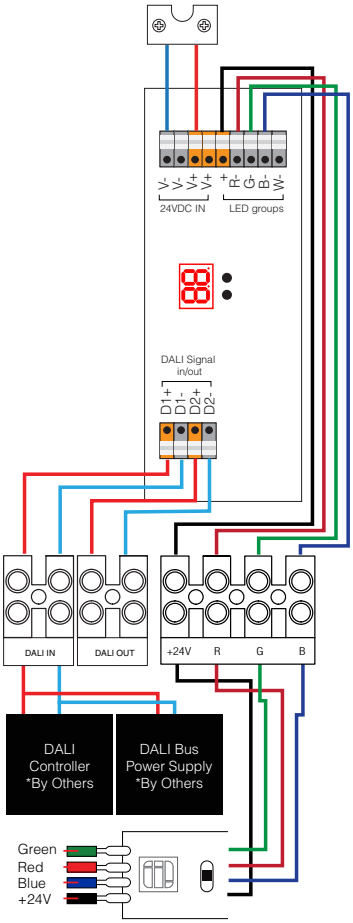
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WIRING CONFIGURATIONS

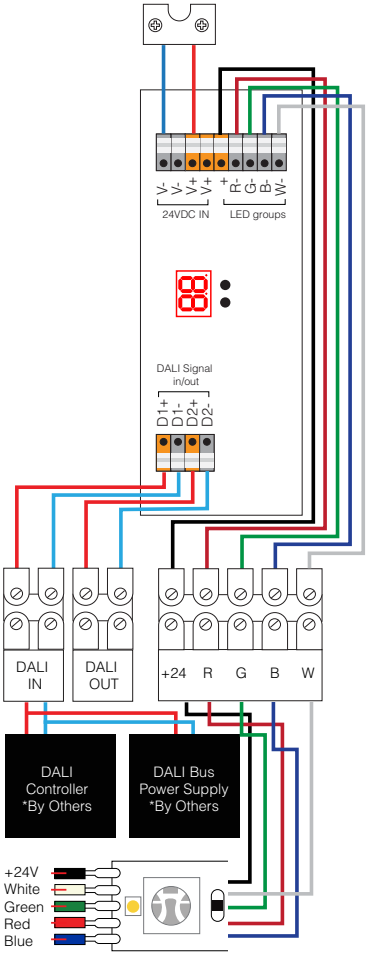
3-Wire



4-Wire



5-Wire



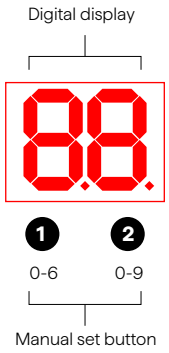
NOTE:
For customization or pre-programming contact a local sales rep.
DALI commissioning to be performed by a third party at time of installation.

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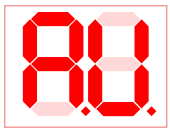
QT-CAB-eLED+DALI-DT8

LED Power Supply Installation Instructions

MANUAL CONFIGURATION

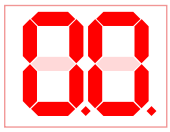


1. Set address manually:



Press and hold either button (5 sec)

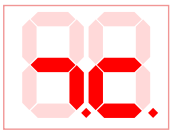
Set Address



Use the buttons to set address

00~63

2. Set Output Type:



Press and hold both button (5 sec)

Use the second button to set the output type



TW

RGB

RGBW

OTHER FEATURES

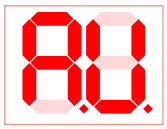
1. Locking the configuration:



Press and hold either button (5 sec)

Confirm

2. Reset to factory defaults:



Press and hold either button (5 sec)

Set Address



Use the buttons to set address

Reset

DT8 Dimming Feature:

NOTE: DT8 color type of the dimmer can be TW, RGB, or RGBW.

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Specification subject to change. Rev-04-02-26

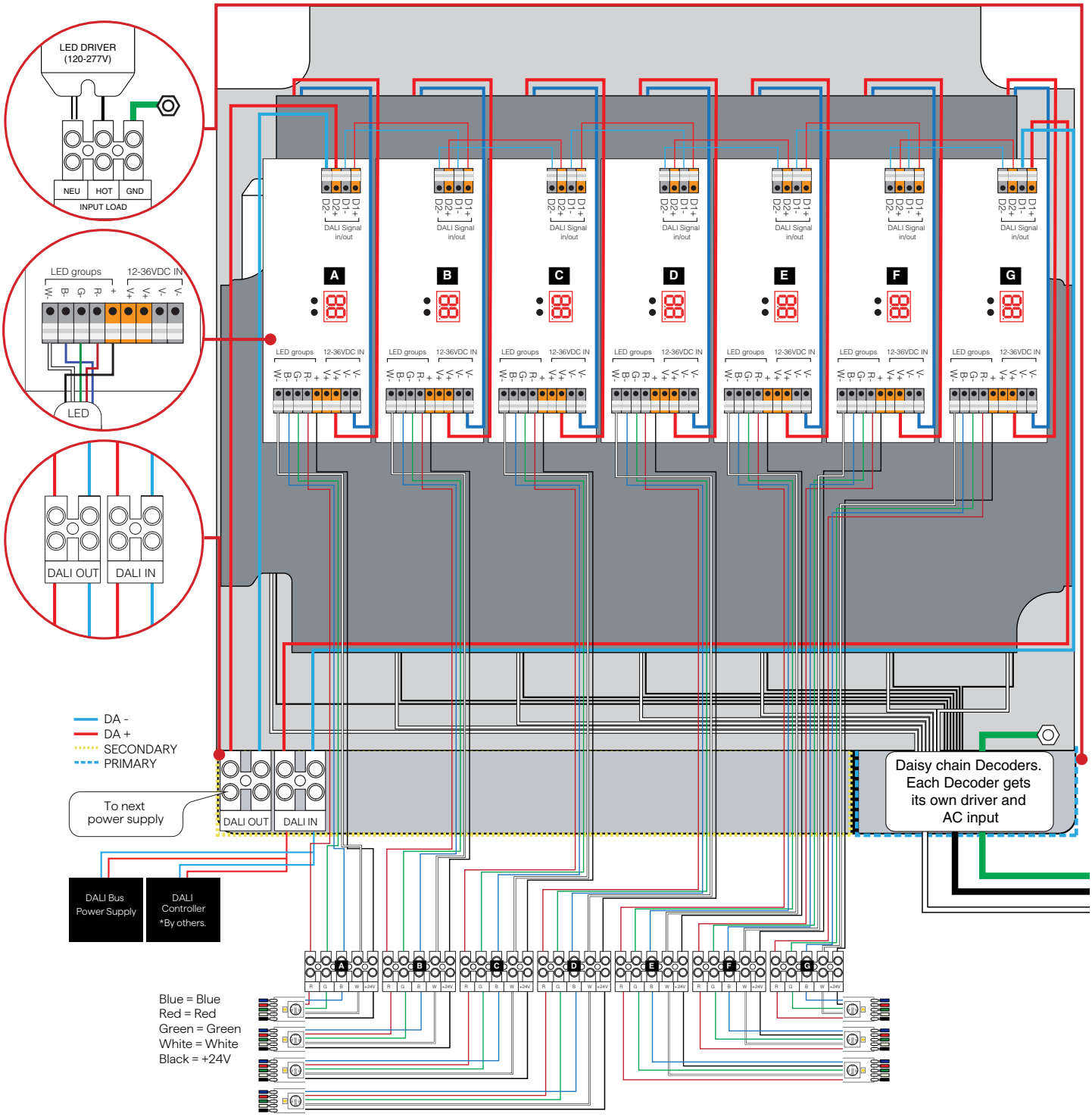
QT-CAB-eLED+DALI-DT8

LED Power Supply Installation Instructions

WIRING DIAGRAM

QT-CAB-eLED+DALI-DT8

700W



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QT-CAB-eLED+DALI-DT8

LED Power Supply 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.
- Do not connect two or more power supplies in parallel.
- Do not install output conductors longer than 273m.

QT-CAB-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)
QT-CAB-eLED-60	120/277	0.60/0.29	50/60	12	60
QT-CAB-eLED-120	120/277	1.20/0.58	50/60	12	120
QT-CAB-eLED-180	120/277	1.80/0.87	50/60	12	180
QT-CAB-eLED-240	120/277	2.40/1.16	50/60	12	240
QT-CAB-eLED-300	120/277	3.00/1.45	50/60	12	300
QT-CAB-eLED-360	120/277	3.60/1.74	50/60	12	360
QT-CAB-eLED-100	120/277	0.95/0.40	50/60	24	100
QT-CAB-eLED-200	120/277	1.90/0.80	50/60	24	200
QT-CAB-eLED-300	120/277	2.85/1.20	50/60	24	300
QT-CAB-eLED-400	120/277	3.80/1.60	50/60	24	400
QT-CAB-eLED-500	120/277	4.75/2.00	50/60	24	500
QT-CAB-eLED-600	120/277	5.70/2.40	50/60	24	600
QT-CAB-eLED-700	120/277	6.65/2.80	50/60	24	700
QT-CAB-eLED-800	120/277	7.60/3.20	50/60	24	800
QT-CAB-eLED-900	120/277	8.55/3.60	50/60	24	900
QT-CAB-eLED-1000	120/277	9.50/4.00	50/60	24	1000

- 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
- Class 2
  CLASSE 2
- Wall mount only
  MONTAGE MURAL UNIQUEMENT

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.QTL.lighting

Low Voltage Luminaires
Power Supply Center

CLASS: 3425 - 15
3425 - 95

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