QT-CAB-eLED+WD

24V DC Power Supply - 100W–800W



- Surface mount or recessed, interior rated LED power supply center.
- Type IC rated.
- Utilizes a 100W constant voltage LED driver.
- Perfect for warm dim lighting applications.
- Capable of handling up to 800W 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 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		UNV	24VDC	WD		

Sample Part Number: **QT-CAB-eLED-300W-UNV-24VDC-WD-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
800W	8 100W Drivers

B3 PRIMARY VOLTAGE

UNV	Universal (120-277V)

B4 SECONDARY VOLTAGE

24VDC

B5 CONTROL

WD	Warm Dim

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+WD

24V DC Power Supply - 100W–800W

PRODUCT INFORMATION

- Limited output voltage and current, plus isolation for safe operation
- QTL proprietary dimming curve
- Controllable with 0-10V input for Warm-Dim functionality
- 0-10V 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 140˚F
- Fits up to (8):100W 24VDC driver(s) and Warm Dim Module
- Up to (8) 0-10V dimming zones. Each circuit has a dedicated 0-10V control.
- Up to (8) 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. If dimming with optional 0-10V dimming module, use a dimmer rated for 0-10

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

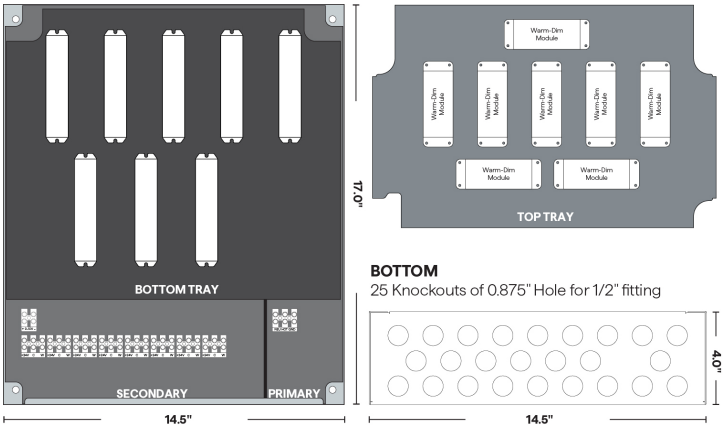
Distance from PS for 5% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	961	604	380	239	150	95	59	37	24
24	30	480	302	190	120	75	47	30	19	12
24	45	320	201	127	80	50	32	20	12	8
24	60	240	151	95	60	38	24	15	9	6
24	80	180	113	71	45	28	18	11	7	4
24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

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QT-CAB-eLED+WD

24V DC Power Supply - 100W–800W

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
800W	8×100W	24VDC	7.60A	3.20A

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 0-10V 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+WD

24V DC Power Supply - 100W–800W

SPECIFICATIONS

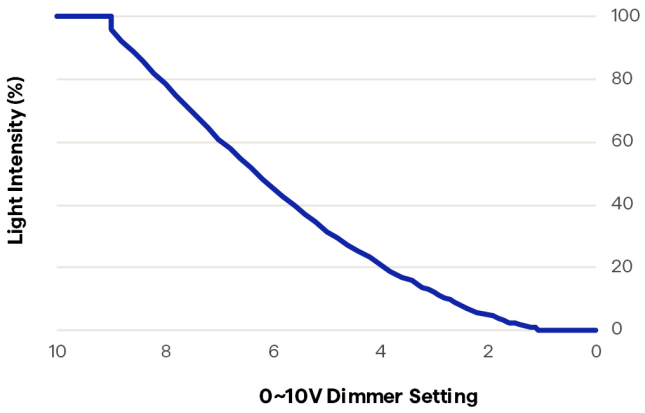
Input	24VDC		
Input Voltage (Vrms)	120	230	277
Input Current, max (Arms)	0.98	0.51	0.43
Inrush Current, max* (Apk)	-	20	-
Input Frequency (Hz)	50/60		
Input Power (Wmax)	117		

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

Dim to Warm Intensity



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

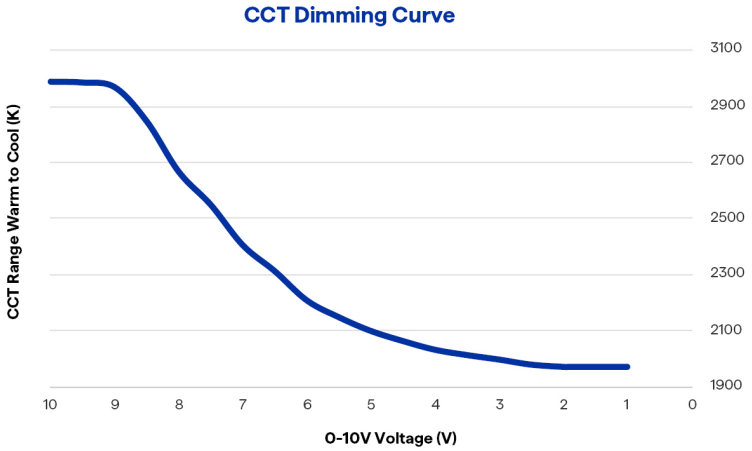
Black Powder Coat Finish

White (Standard)

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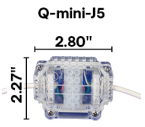
QT-CAB-eLED+WD

24V DC Power Supply - 100W–800W



*Tested with DW-HE24/2.5-DRY-20/30

COMPATIBLE WIRING ACCESSORIES



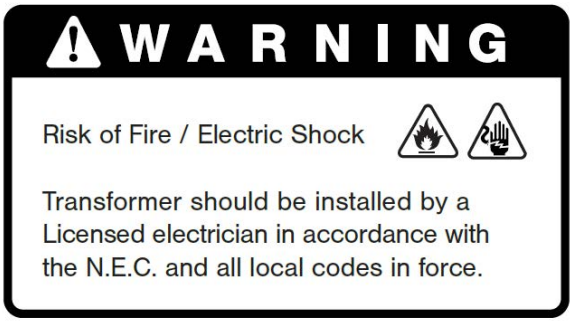
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

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QT-CAB-eLED+WD

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

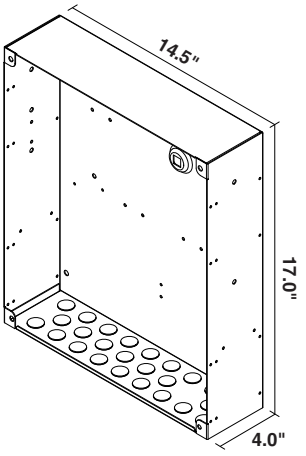
- Wear rubber shoes and work on a sturdy wooden or fiberglass ladder.
- This power supply must be installed according to the National Electric Code and local codes and ordinances.
- This power supply is to be installed and serviced only by an licensed electricians.
- This power supply is to be installed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

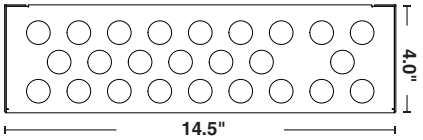
LED Power Supply Installation Instructions

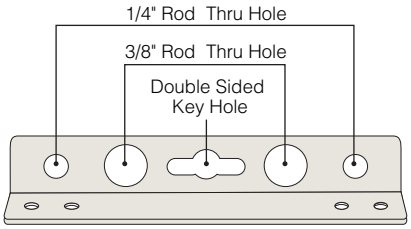
HOUSING



BOTTOM

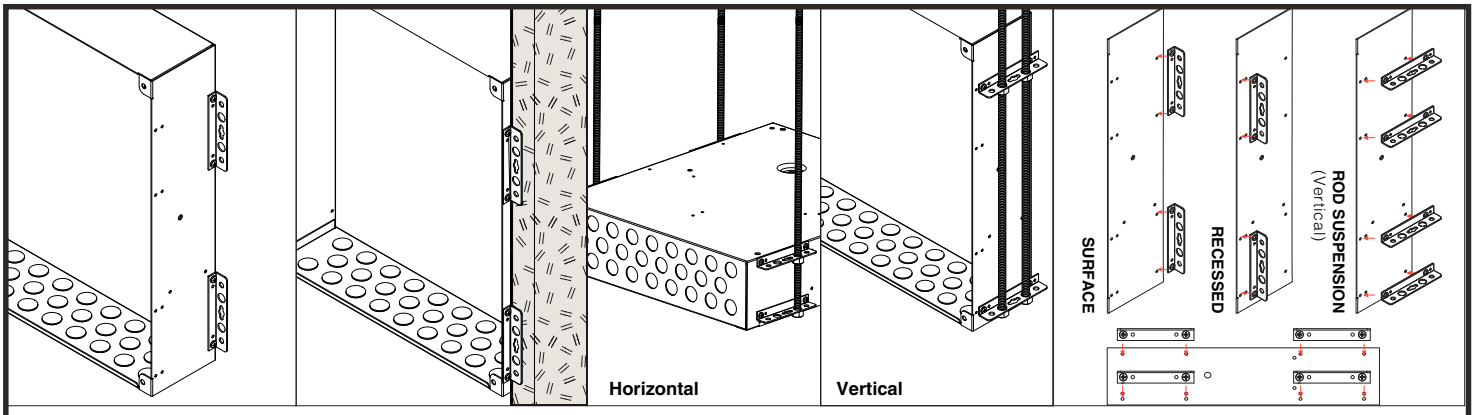
25 Knockouts of 0.875" Hole for 1/2" fitting





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

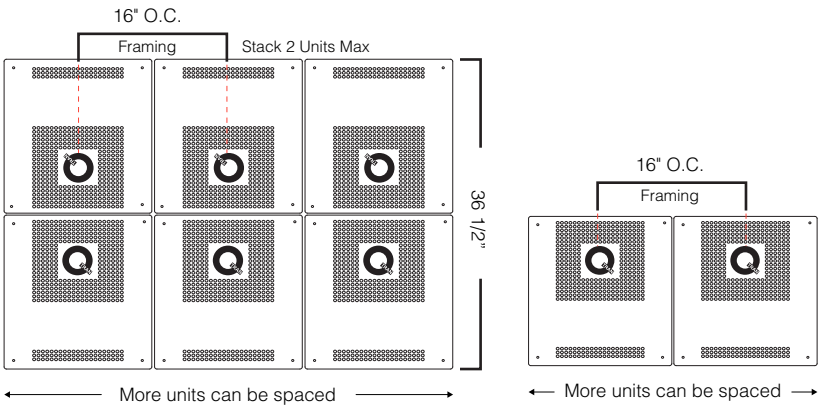
MOUNTING OPTIONS



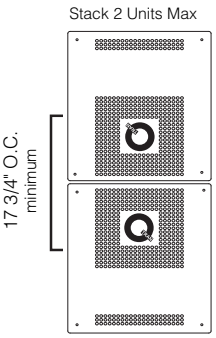
SURFACE MOUNT | **RECESSED MOUNT** | **ROD SUSPENSION MOUNT** (Comes with 4 brackets standard) | **ROD SUSPENSION** (Horizontal)

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.

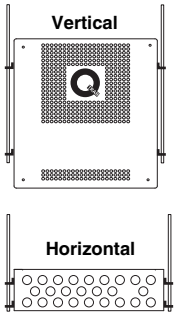
SURFACE SPACING



SURFACE STACKING



ROD SUSPENSION



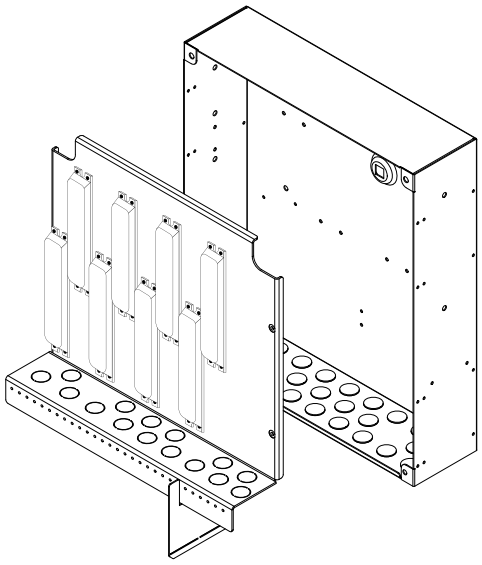
Plenum Door Required

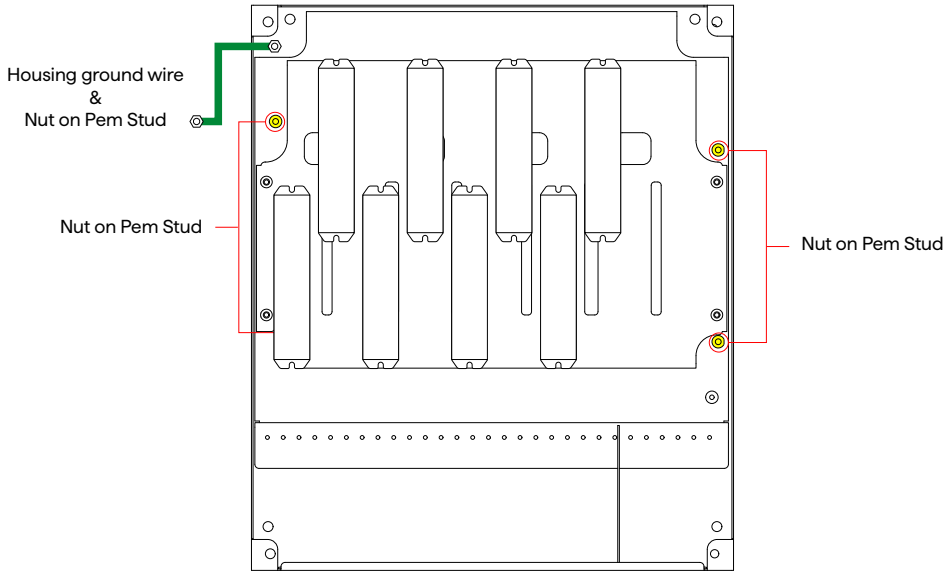
NOTE: Rods not included.

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

POWER TRAY INSTALL

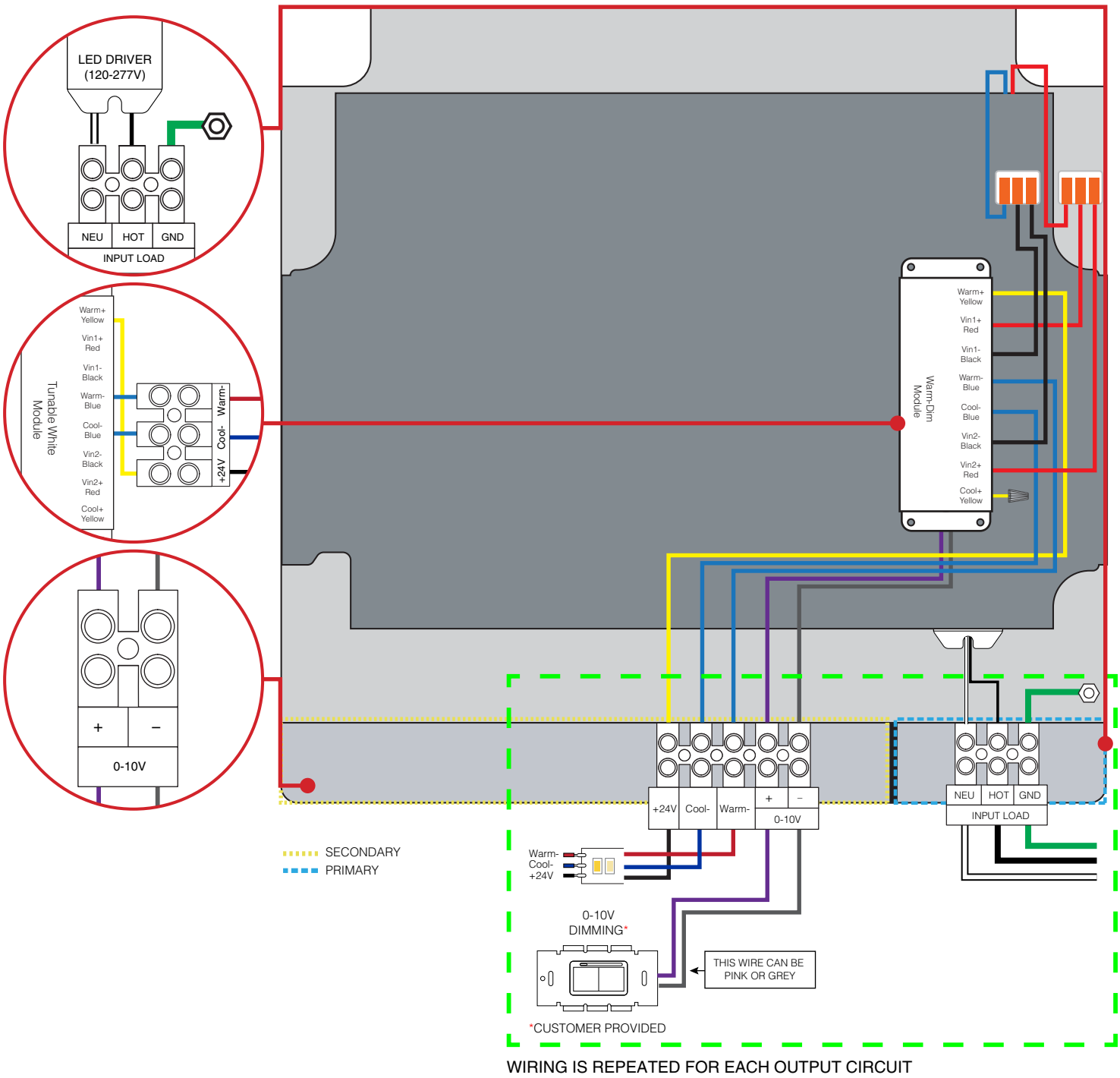




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WIRING DIAGRAM

100W



Only for wiring purposes

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QT-CAB-eLED+WD

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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