QT-CAB-eLED+0-10V-AWN

12V or 24V DC Power Supply - 60W–600W



- Housing can be recessed or surface mounted
- Type IC rated
- Designed for interior use
- Features 0-10V dimming
- Compatible with 12VDC or 24VDC constant voltage products
- UL listed enclosure allows for 1-6 drivers and 1-6 dimming modules
- Incorporates a factory-installed Lutron Athena Wireless Nodes, which streamlines installation time and allows for simple programming using the Athena iOS or Android app
- Using radio frequency, it connects seamlessly to Lutron wall controls, keypads, and sensors over a mesh network, providing an efficient lighting control solution
- See QT-CAB-eLED+0-10V for power supply without Athena Nodes

1 PRODUCT	2 WATTAGE	3 CONTROL	4 PRIMARY VOLTAGE	5 SECONDARY VOLTAGE	6 COLOR
QT-CAB-eLED					

Sample Part Number: **QT-CAB-eLED-600W-0-10V-AWN-6-UNV-24VDC-WH**

1 PRODUCT

QT-CAB-eLED

2 WATTAGE / 3 CONTROL

2 WATTAGE	3 CONTROL
100W 1 100W Driver	**0-10V-AWN-1**
200W 2 100W Drivers	**0-10V-AWN-1** **0-10V-AWN-2**
300W 3 100W Drivers	**0-10V-AWN-1** **0-10V-AWN-3**
400W 4 100W Drivers	**0-10V-AWN-1** **0-10V-AWN-2** **0-10V-AWN-4**
500W 5 100W Drivers	**0-10V-AWN-1** **0-10V-AWN-5**
600W 6 100W Drivers	**0-10V-AWN-1** **0-10V-AWN-2** **0-10V-AWN-3** **0-10V-AWN-6**
60W 1 60W Driver	**0-10V-AWN-1**
120W 2 60W Drivers	**0-10V-AWN-1** **0-10V-AWN-2**
180W 3 60W Drivers	**0-10V-AWN-1** **0-10V-AWN-3**
240W 4 60W Drivers	**0-10V-AWN-1** **0-10V-AWN-2** **0-10V-AWN-4**
300W 5 60W Drivers	**0-10V-AWN-1** **0-10V-AWN-5**
360W 6 60W Drivers	**0-10V-AWN-1** **0-10V-AWN-2** **0-10V-AWN-3** **0-10V-AWN-6**

4 PRIMARY VOLTAGE / 5 SECONDARY VOLTAGE

4 PRIMARY VOLTAGE	5 SECONDARY VOLTAGE
UNV Universal	**24VDC**
UNV Universal	**12VDC**

6 COLOR

WH	White (Standard)
BK	Black Powder Coat Finish

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QT-CAB-eLED+0-10V-AWN

12V or 24V DC Power Supply - 60W–600W

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	

PRODUCT INFORMATION

- Limited output voltage and current, plus isolation for safe operation
- Dimmable 0.1% - 100% with Lutron Athena System
- 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 (6): 60W 12VDC or (6):100W 24VDC driver(s) and 0-10V dimming module(s) in the same housing
- Up to (6) 0-10V dimming zones. Each circuit has a dedicated wireless 0-10V control.
- Up to (6) 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+0-10V-AWN

12V or 24V DC Power Supply - 60W–600W

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

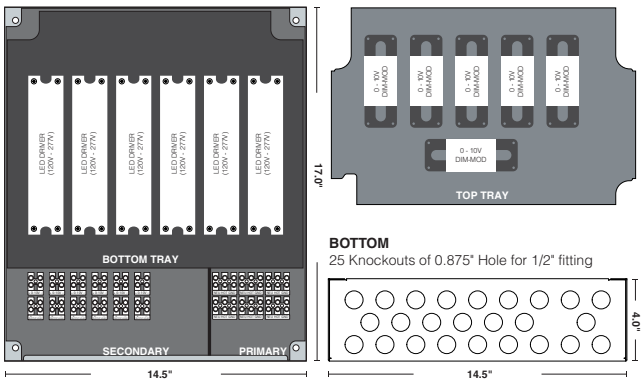
VOLTAGE DROP — 12V

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

1 PRODUCT - DIMENSIONS



2 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
900W	9×100W	24VDC	8.55A	3.60A
1000W	10×100W	24VDC	9.50A	4.00A
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
360W	6×60W	12VDC	3.60A	1.74A

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QT-CAB-eLED+0-10V-AWN

12V or 24V DC Power Supply - 60W–600W

3 CONTROL

- 0-10V-AWN-1: 1 Lutron Athena Node. 1 zone of control for 100-600W. The entire output is controlled as a single zone.
- 0-10V-AWN-2: 2 Lutron Athena Nodes. 2 zones of control for 200W, 400W, 600W. Each of the two outputs are controlled as independent zones.
- 0-10V-AWN-3: 3 Lutron Athena Nodes. 3 zones of control for 300W, 600W. Each of the three outputs are controlled as independent zones.
- 0-10V-AWN-4: 4 Lutron Athena Nodes. 4 zones of control for 400W. Each of the four outputs are controlled as independent zones.
- 0-10V-AWN-5: 5 Lutron Athena Nodes. 5 zones of control for 500W. Each of the five outputs are controlled as independent zones.
- 0-10V-AWN-6: 6 Lutron Athena Nodes. 6 zones of control for 600W. Each of the six outputs are controlled as independent zones.

Total Wattage	0-10V-AWN-1	0-10V-AWN-2		0-10V-AWN-3			0-10V-AWN-4				0-10V-AWN-5					0-10V-AWN-6					
	Node 1	Node 1	Node 2	Node 1	Node 2	Node 3	Node 1	Node 2	Node 3	Node 4	Node 1	Node 2	Node 3	Node 4	Node 5	Node 1	Node 2	Node 3	Node 4	Node 5	Node 6
100W	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
200W	200	100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
300W	300	-	-	100	100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
400W	400	200	200	-	-	-	100	100	100	100	-	-	-	-	-	-	-	-	-	-	-
500W	500	-	-	-	-	-	-	-	-	-	100	100	100	100	100	-	-	-	-	-	-
600W	600	300	300	200	200	200	-	-	-	-	-	-	-	-	-	100	100	100	100	100	100

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.

LUTRON ATHENA NODE

- Compatibility with Lutron Athena System
- Enables wireless 0-10V dimming
- Each node controlled as a single zone, use multiple nodes to create multiple zones
- Each Athena wireless node must be installed within 25' of two or more Athena wireless nodes for robust Athena control system connection
- Must be used as part of a Lutron Athena control system
- Athena Wireless Node system commissioing, troubleshooting, and maintenance performed by others

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-6 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

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		

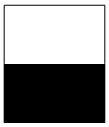
Output	12VDC	24VDC
Output Voltage, nom (V)	12	24
Output Current (A)	5.0	4.1
Output Power (Wmax)	60	100
Dimming 0-10V, max	2mA	

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

PROTECTIONS

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

6 COLOR



White (Standard)

Black Powder Coat Finish

COMPLIANCE

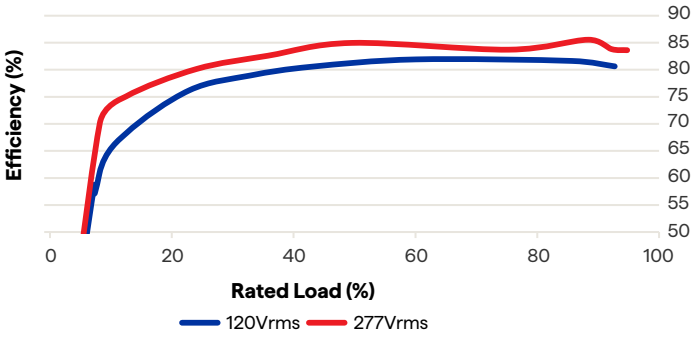
- EMI Spec
  - FCC 47 Part 15
  - EN61000-3-2
- CSA Certified
  - UL-2108
  - UL-8750
  - CSA C22.2 No 250.0-08
  - CSA C22.2 No 250.13-14

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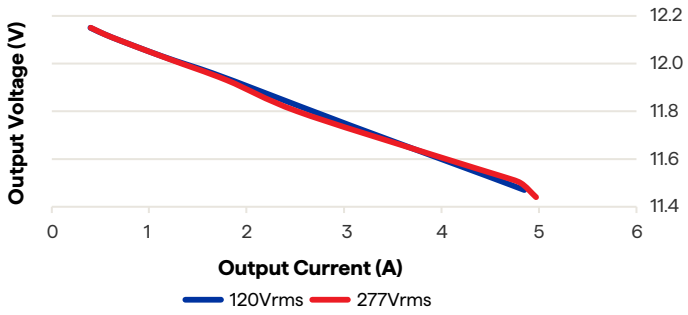
QT-CAB-eLED+0-10V-AWN

12V or 24V DC Power Supply - 60W–600W

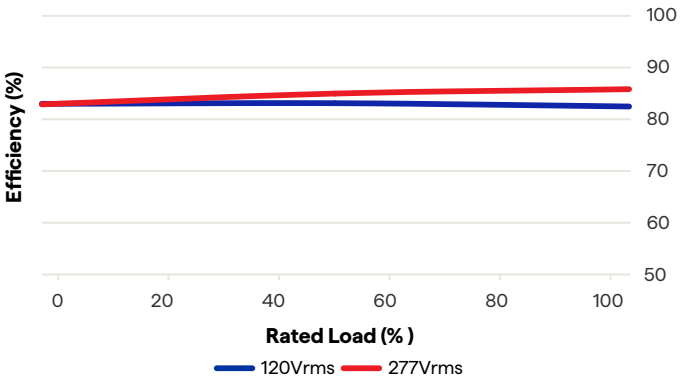
Efficiency, 12VDC



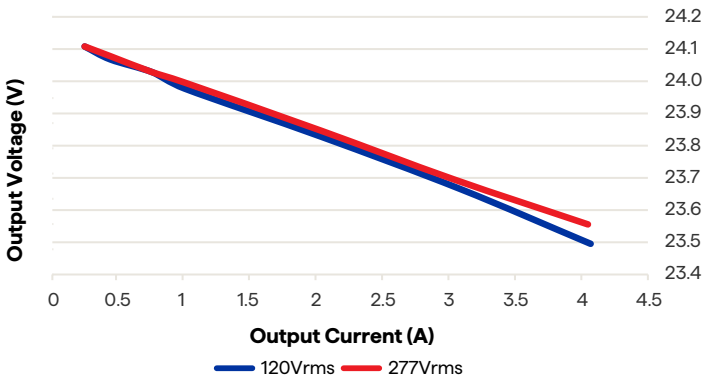
Vout vs. Iout, 12VDC



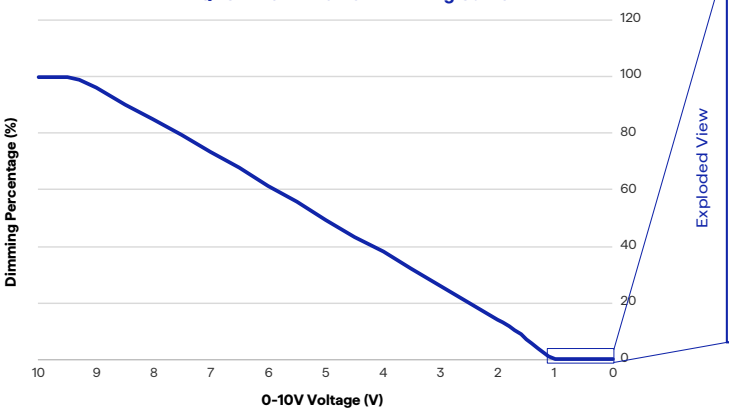
Efficiency, 24VDC



Vout vs. Iout, 24VDC

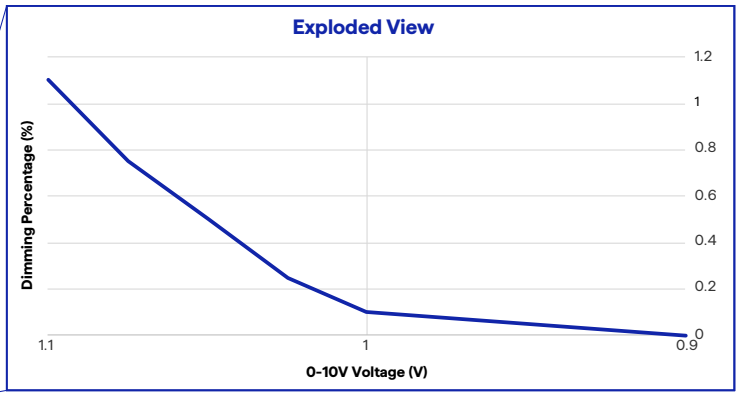


QTCAB-eLED+0-10V Dimming Curve



Exploded View

Exploded View



COMPATIBLE WIRING ACCESSORIES

Q-mini-J



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

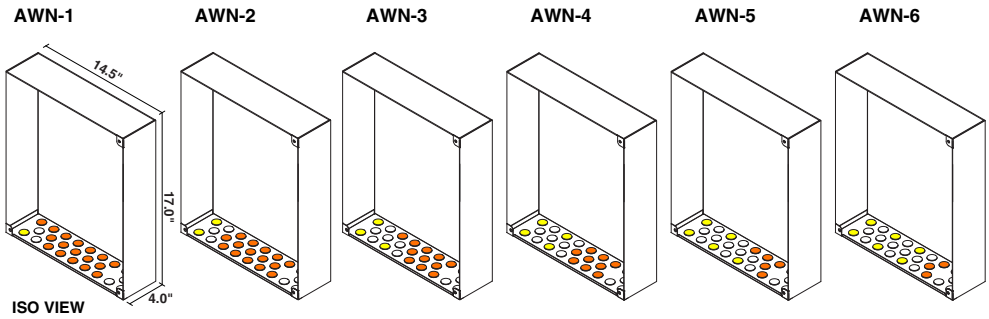
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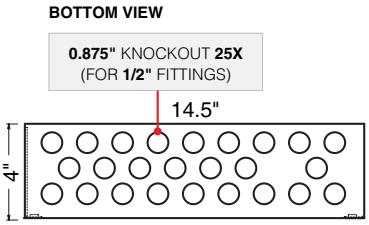
Specification subject to change. Rev-08-24-26

QT-CAB-eLED+0-10V-AWN

12V or 24V DC Power Supply - 60W–600W

NODE AND CONDUIT ENTRY LOCATIONS





Conduit Entry Locations
Athena nodes must be installed on the secondary side of power supply center and require 1.0” of clearance in order to optimally function. Metal conduit must be 1.0” away from any node. Refer to the diagram above for recommendations for conduit entry into secondary compartment.

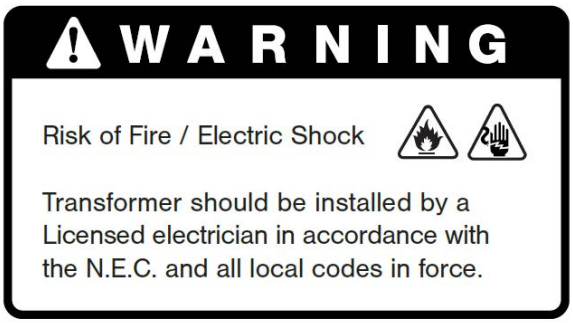
Lutron Athena Node
Mounted in the secondary wiring compartment only

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QT-CAB-eLED+0-10V-AWN

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

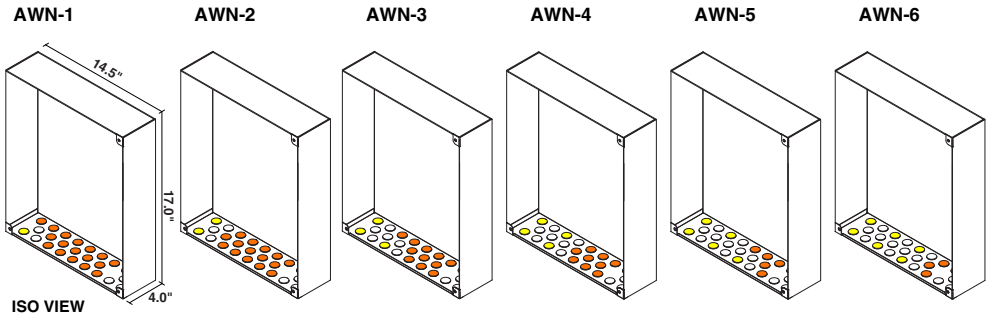
- Wear rubber shoes and work on a sturdy wooden or fiberglass ladder.
- This power supply must be installed according to the National Electric Code and local codes and ordinances.
- This power supply is to be installed and serviced only by an licensed electricians.
- This power supply is to be installed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

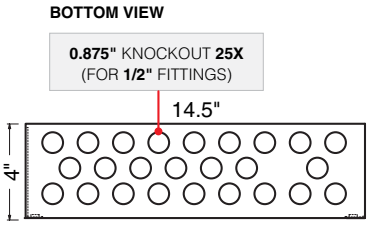
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QT-CAB-eLED+0-10V-AWN

LED Power Supply Installation Instructions

NODE AND CONDUIT ENTRY LOCATIONS

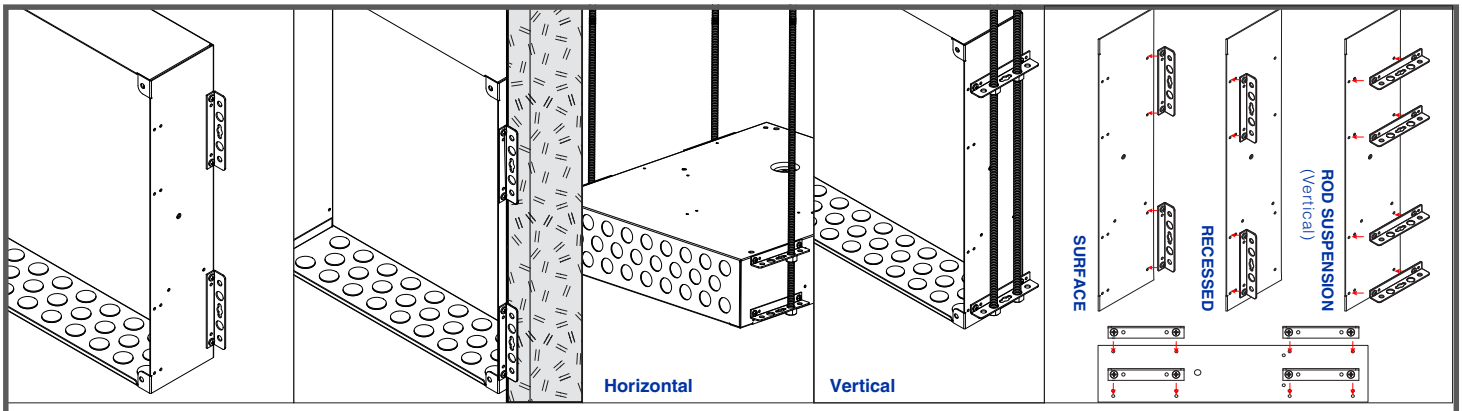




Conduit Entry Locations
Athena nodes must be installed on the secondary side of power supply center and require 1.0" of clearance in order to optimally function. Metal conduit must be 1.0" away from any node. Refer to the diagram above for recommendations for conduit entry into secondary compartment.

Lutron Athena Node
Mounted in the secondary wiring compartment only

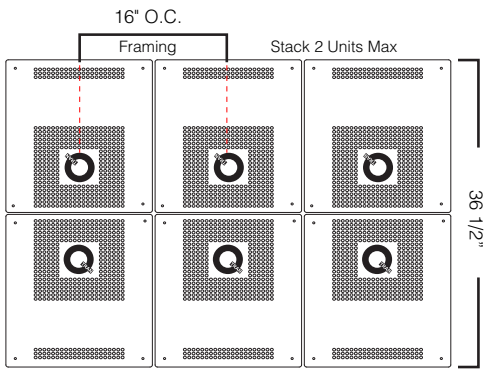
MOUNTING OPTIONS

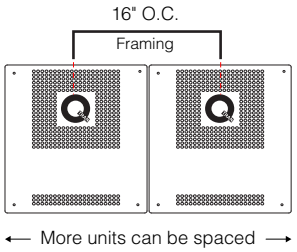


SURFACE MOUNT | **RECESSED MOUNT** | **ROD SUSPENSION MOUNT** (Comes with 4 brackets standard) | **ROD SUSPENSION** (Horizontal)

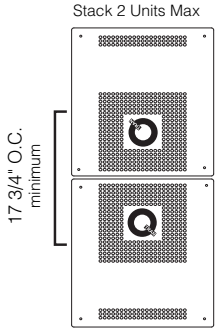
If the housing is installed prior to final construction, install included disposable cover to protect the housing from large debris, damage, and paint overspray. Remove disposable cover and clean out housing before installing electronics.

SURFACE SPACING

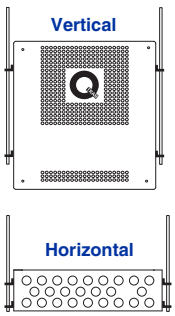




SURFACE STACKING



ROD SUSPENSION



Plenum Door Required

NOTE: Rods not included.

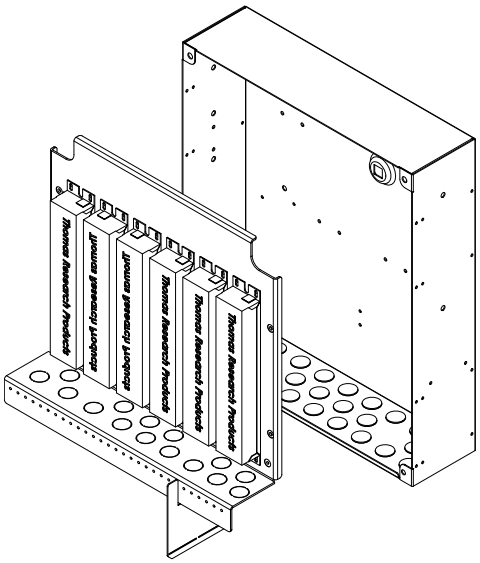
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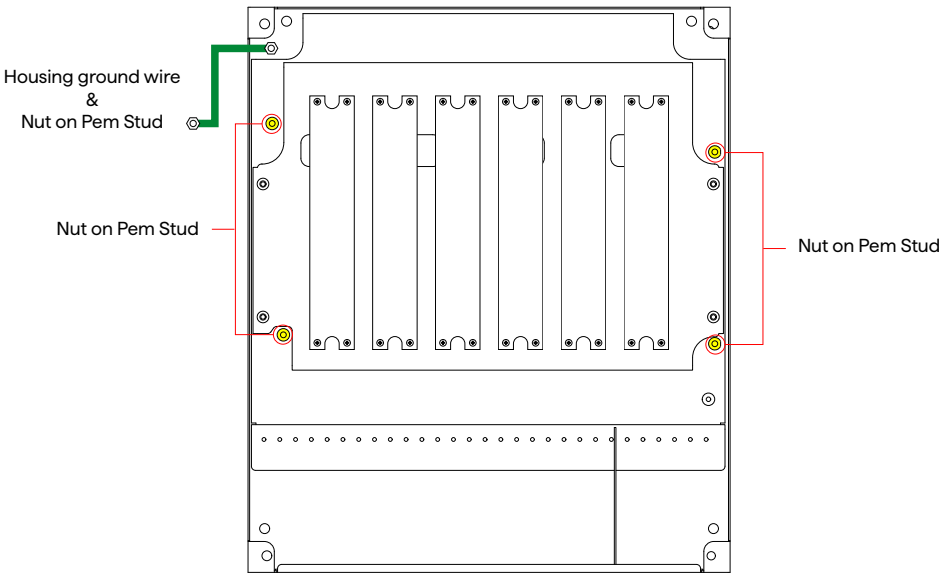
Specification subject to change. Rev-02-29-24

QT-CAB-eLED+0-10V-AWN

LED Power Supply Installation Instructions

POWER TRAY INSTALL





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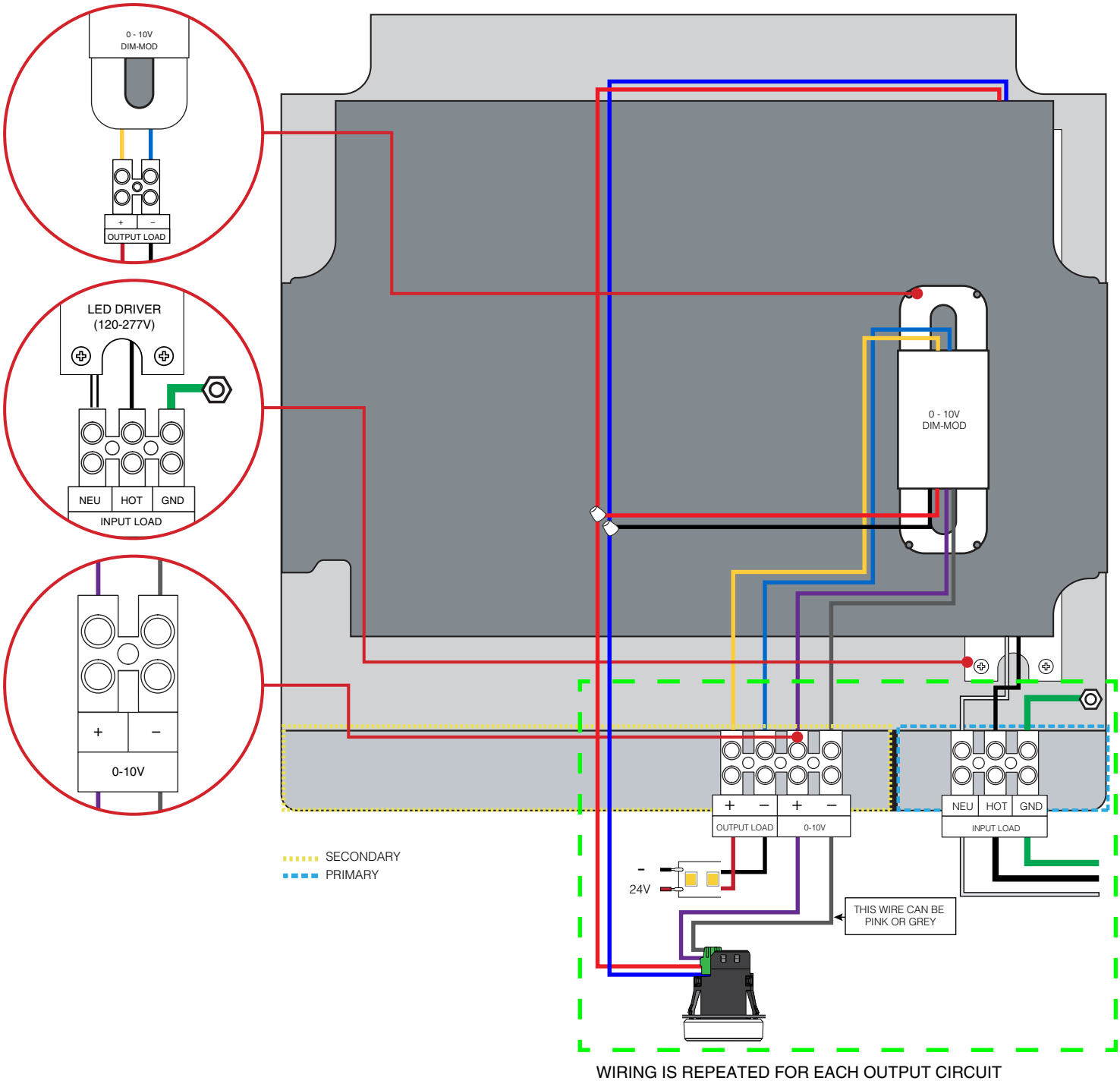
QT-CAB-eLED+0-10V-AWN

LED Power Supply Installation Instructions

WIRING DIAGRAM

QT-CAB-eLED+0-10V-AWN-1

100W



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QT-CAB-eLED+0-10V-AWN

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-AWN ○ WD-AWN ○ TW-AWN ○ DALI-DT6-AWN ○ DALI-DT8-AWN

	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

- 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.QTLlighting
LOW VOLTAGE LIGHTING SYSTEM
CLASS: 3425 - 15
3425 - 95

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