QT-CAB-QZ-PH/0-10V

24V DC Power Supply - 30W–576W



- Surface mount or recessed, interior rated LED power supply center.
- Type IC rated.
- Utilizes the QZ technology to provide phase or 0-10V dimming down to 0.1%.
- Compatible with 24VDC constant voltage products
- UL listed enclosure can accommodate 1-6 drivers with discrete 24V output and 0-10 dimming control
- 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-QZ		UNV	24VDC	PH/010		

Sample Part Number: **QT-CAB-QZ-60x2-UNV-24VDC-PH/010-NI-WH**

A1 PRODUCT

QT-CAB

A2 COLOR

WH	White (Standard)
BK	Black Powder Coat Finish

B1 PRODUCT

QT-CAB-QZ

For customized mix of wattages, contact local sales rep.

B2 WATTAGE

30x1	1 30W Driver
30x2	2 30W Drivers
30x3	3 30W Drivers
30x4	4 30W Drivers
30x5	5 30W Drivers
30x6	6 30W Drivers
30x7	7 30W Drivers
60x1	1 60W Driver
60x2	2 60W Drivers
60x3	3 60W Drivers
60x4	4 60W Drivers
60x5	5 60W Drivers
60x6	6 60W Drivers
60x7	7 60W Drivers
96x1	1 96W Driver
96x2	2 96W Drivers
96x3	3 96W Drivers
96x4	4 96W Drivers
96x5	5 96W Drivers
96x6	6 96W Drivers

B3 PRIMARY VOLTAGE

UNV	Universal (120-277V)

B4 SECONDARY VOLTAGE

24VDC

B5 CONTROL

PH/010	Phase or 0-10V dimming

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-QZ-PH/0-10V

24V DC Power Supply - 30W–576W

PRODUCT INFORMATION

- Limited output voltage and current, plus isolation for safe operation
- PH/010 Dimming:
  - Phase dimming: works with forward phase / leading edge, MLV and Reverse phase / trailing edge, ELV, TRIAC dimmers
  - Dimming range: 0.1% - 100%
  - 0-10V dimming
  - 1-10V dimming
  - 10V PWM
  - Potentiometer
  - Flicker-free dimming
  - PWM (high frequency) output reduces visible flicker
- Follows recommended practices of IEEE standard P1789 to mitigate flicker-induced health risks
- 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: -40˚F to 95˚F
- Storage temperature range: -40˚F to 176˚F
- Installation temperature range: -40˚F to 140˚F
- Fits up to (7) 30W 24VDC circuits or (7) 60W 24VDC circuits or (6) 96W 24VDC circuits
- Up to (7) 0-10V dimming zones (30W, 60W), Up to (6) 0-10V dimming zones (96W). Each circuit has a dedicated 0-10V control.
- Up to (7) primary zones (30W, 60W), Up to (6) primary zones (96W). Each output circuit has a dedicated AC input.
- 5-year warranty
- Class 2 output
- CSA #239924
- Compliant to FCC Part 15B
- 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

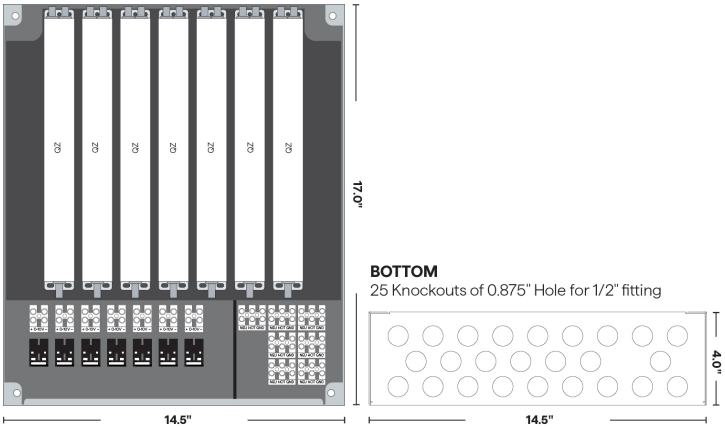
Distance from PS for 5% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	961	604	380	239	150	95	59	37	24
24	30	480	302	190	120	75	47	30	19	12
24	45	320	201	127	80	50	32	20	12	8
24	60	240	151	95	60	38	24	15	9	6
24	80	180	113	71	45	28	18	11	7	4
24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

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QT-CAB-QZ-PH/0-10V

24V DC Power Supply - 30W–576W

A1 PRODUCT - DIMENSIONS



B2 TECHNICAL INFORMATION

Wattage	Max Load (Watts)	Secondary Voltage	Max Prim Amps @ 120V	Max Prim Amps @ 277V
30W	1×30W	24VDC	0.29A	0.12A
60W	1×60W	24VDC	0.57A	0.24A
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

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-QZ-PH/0-10V

24V DC Power Supply - 30W–576W

SPECIFICATIONS

Input 30W	24VDC		
Input Voltage (Vrms)	120	230	277
Input Current, max (Arms)	0.5	0.26	0.22
Inrush Current, max* (Apk)	7.0	9.5	12.0
Input Frequency (Hz)	50/60		
Input Power (Wmax)	60		

Input 60W	24VDC		
Input Voltage (Vrms)	120	230	277
Input Current, max (Arms)	0.9	0.47	0.39
Inrush Current, max* (Apk)	22.4	32.4	42.4
Input Frequency (Hz)	50/60		
Input Power (Wmax)	108		

Input 96W	24VDC		
Input Voltage (Vrms)	120	230	277
Input Current, max (Arms)	1.3	0.68	0.56
Inrush Current, max* (Apk)	20	22.5	25
Input Frequency (Hz)	50/60		
Input Power (Wmax)	156		

Output	24VDC		
Output Voltage, nom (V)	24		
Output Current (A)	1.25	2.5	4.1
Output Power (Wmax)	30	60	100
Dimming 0-10V, max	2mA		

Environmental	Min	Nom	Max
THD (%)	-	-	20
PF (%)	0.94	-	-
Case Temp (°F)	-	-	90

*-200us event

PROTECTIONS

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

COMPLIANCE

- EMI Spec
  - FCC 47 Part 15
  - FCC 47 CFR Part 15 Subpart B
  - 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

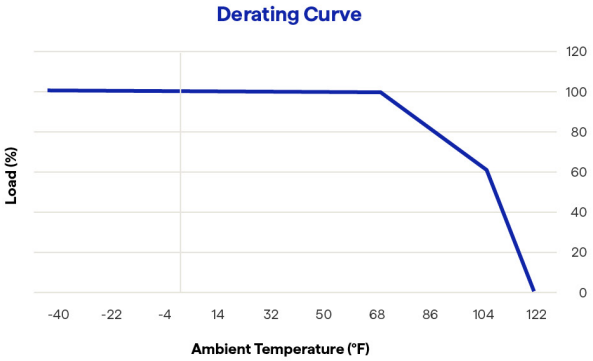
Black Powder Coat Finish

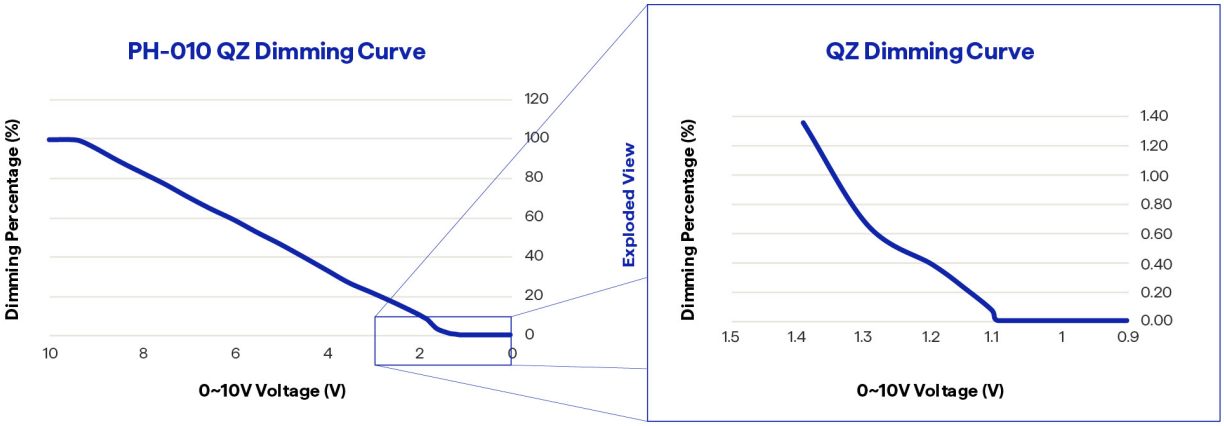
White (Standard)

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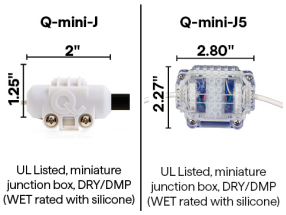
QT-CAB-QZ-PH/0-10V

24V DC Power Supply - 30W–576W





COMPATIBLE WIRING ACCESSORIES

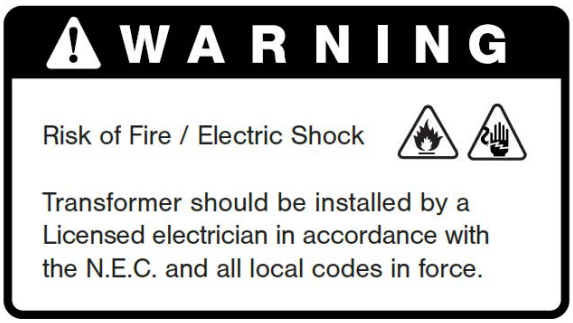


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QT-CAB-QZ-PH/0-10V

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

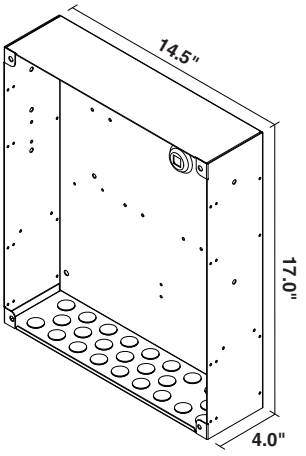
- Wear rubber shoes and work on a sturdy wooden or fiberglass ladder.
- This power supply must be installed according to the National Electric Code and local codes and ordinances.
- This power supply is to be installed and serviced only by an licensed electricians.
- This power supply is to be installed 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-QZ-PH/0-10V

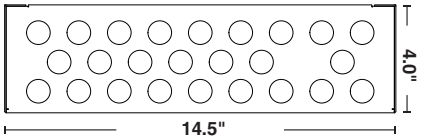
LED Power Supply Installation Instructions

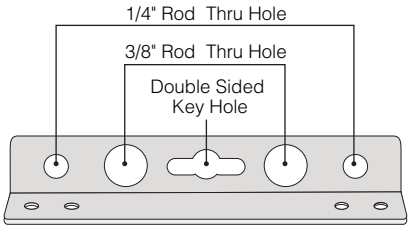
HOUSING



BOTTOM

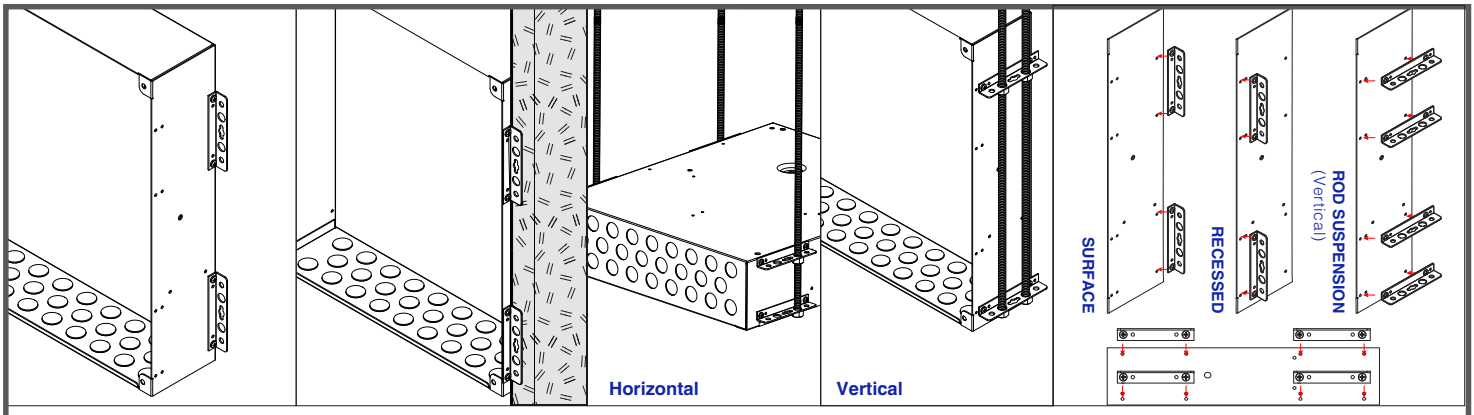
25 Knockouts of 0.875" Hole for 1/2" fitting





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

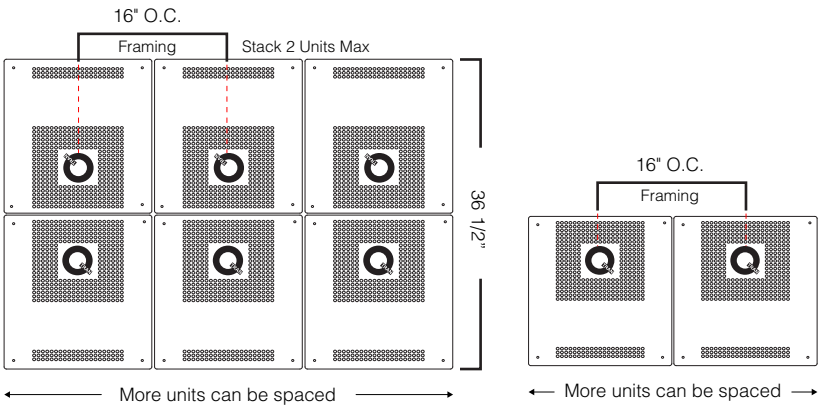
MOUNTING OPTIONS



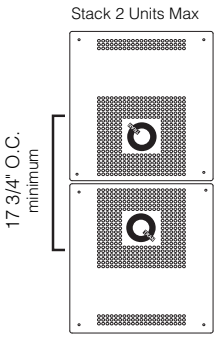
SURFACE MOUNT | **RECESSED MOUNT** | **ROD SUSPENSION MOUNT** (Comes with 4 brackets standard) | **ROD SUSPENSION** (Horizontal)

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.

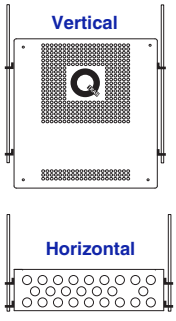
SURFACE SPACING



SURFACE STACKING



ROD SUSPENSION



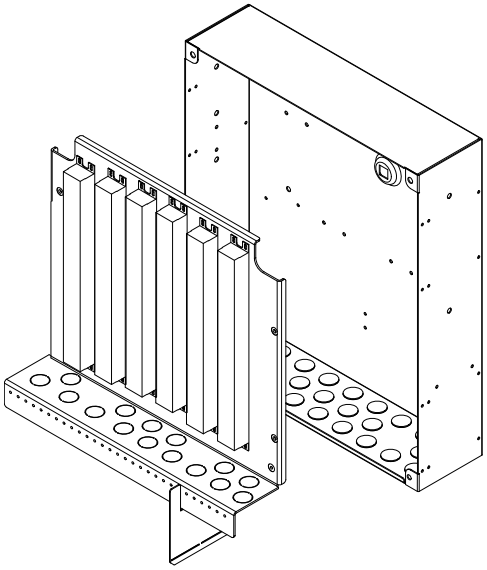
Plenum Door Required

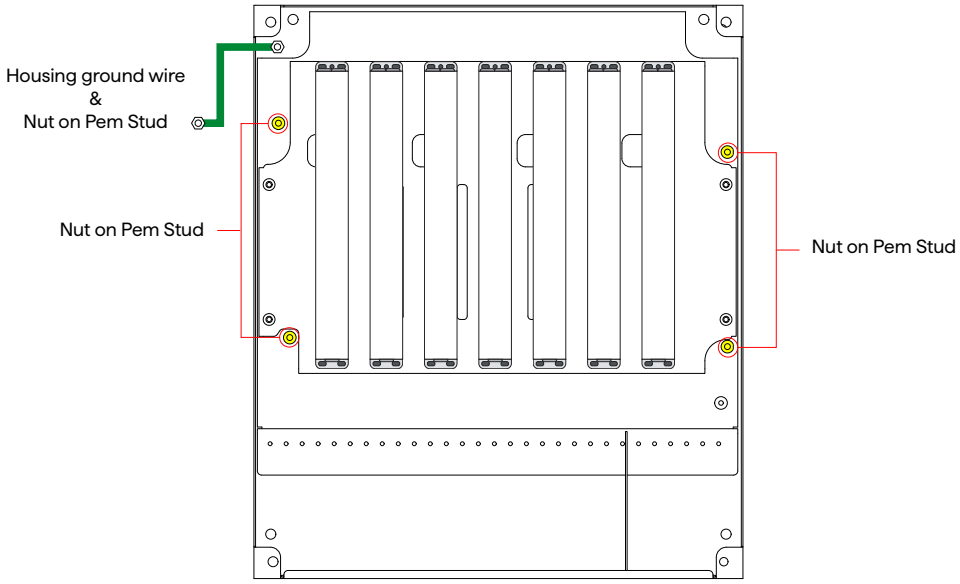
NOTE: Rods not included.

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Specification subject to change. Rev-04-02-25

POWER TRAY INSTALL

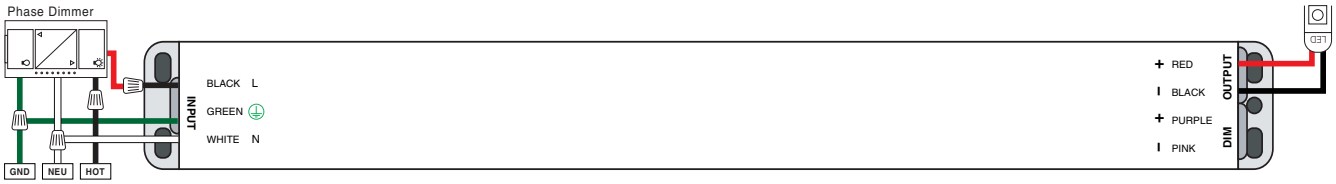




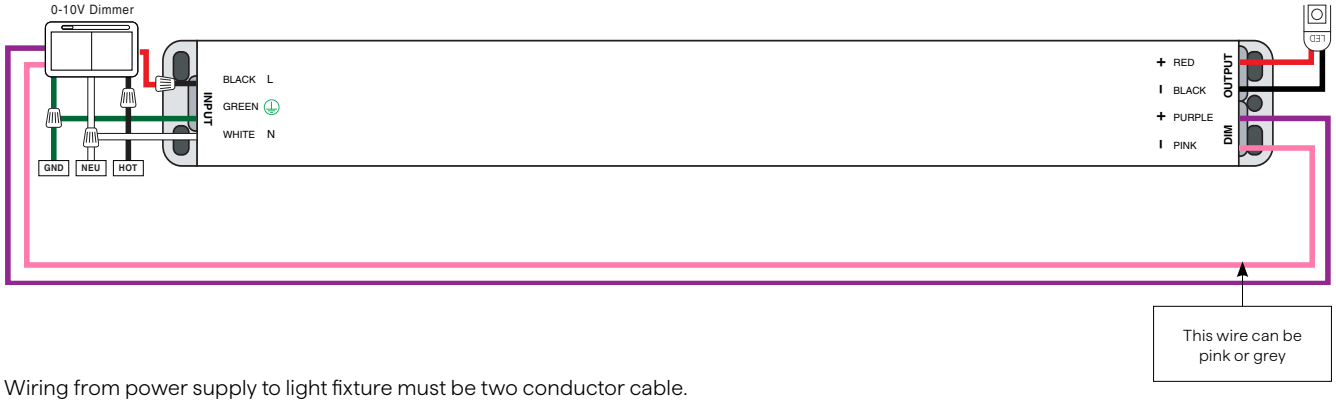
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WIRING CONFIGURATIONS

Phase Dimming



0-10V Dimming



Wiring from power supply to light fixture must be two conductor cable.

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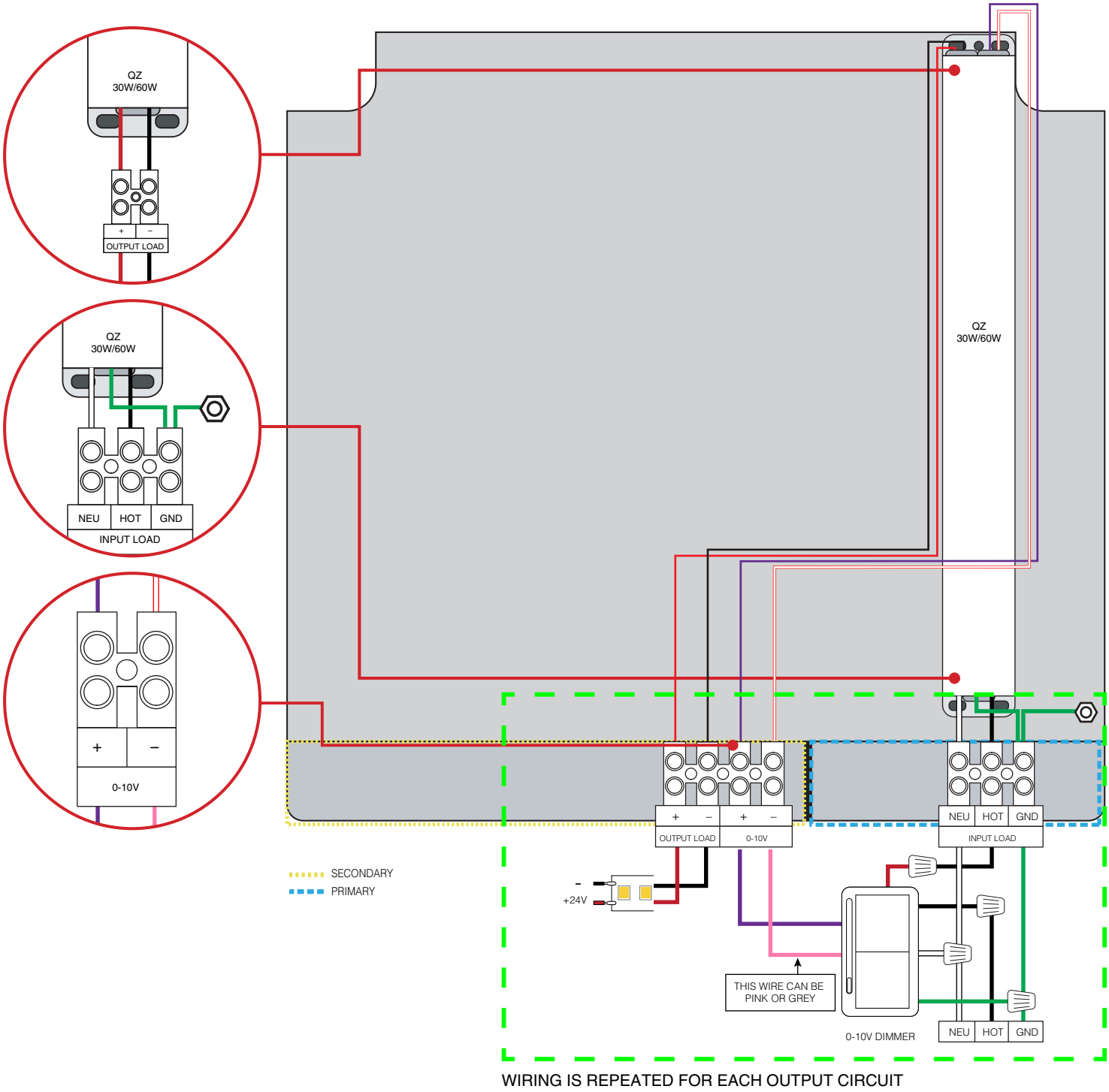
QT-CAB-QZ-PH/0-10V

LED Power Supply Installation Instructions

WIRING DIAGRAM

QT-CAB-QZ-PH/0-10V

30W/60W



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Specification subject to change. Rev-04-02-25

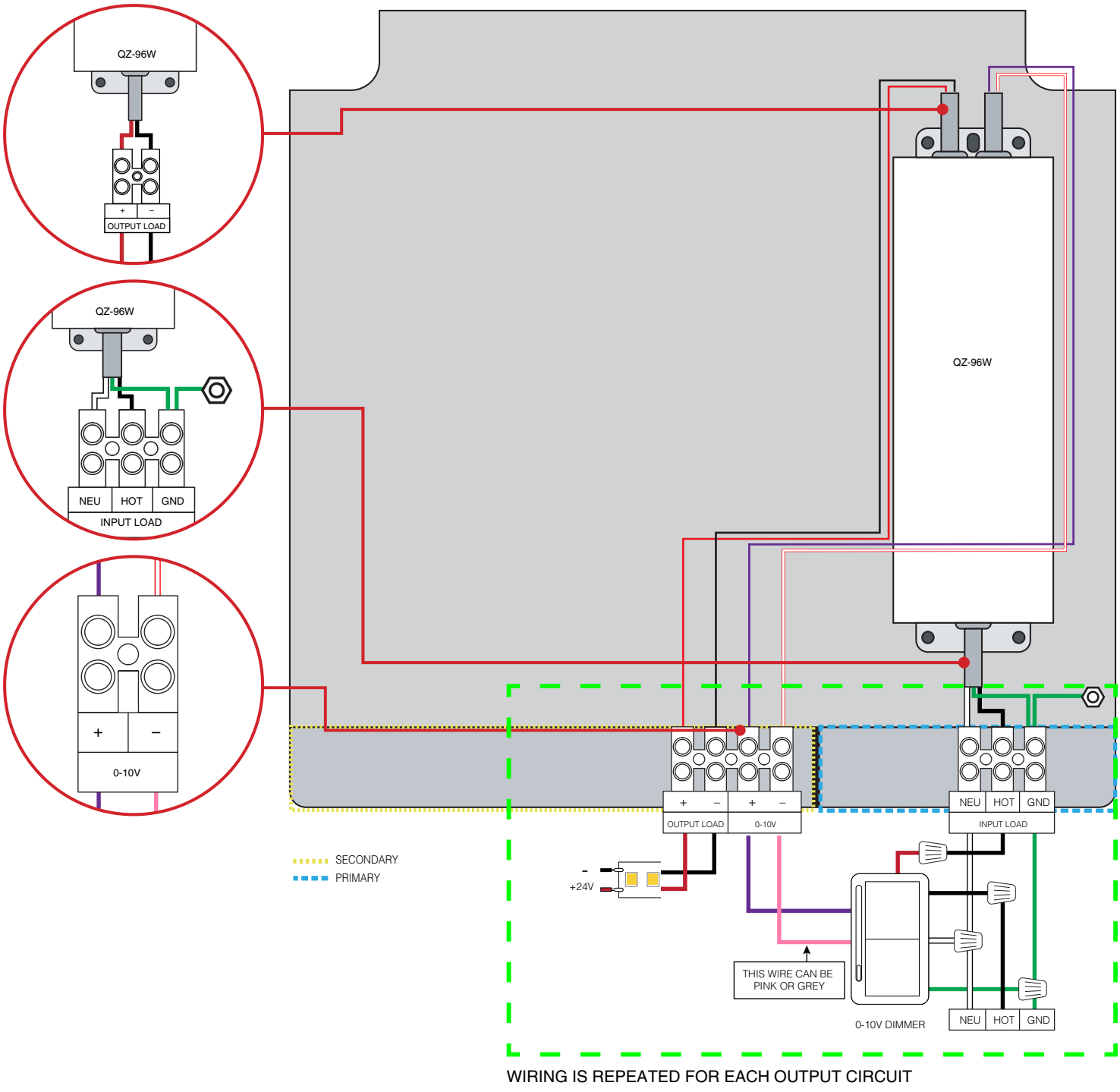
QT-CAB-QZ-PH/0-10V

LED Power Supply Installation Instructions

WIRING DIAGRAM

QT-CAB-QZ-PH/0-10V

96W



WIRING IS REPEATED FOR EACH OUTPUT CIRCUIT

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QT-CAB-QZ-PH/0-10V

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 278m.

QT-CAB-QZ		INPUT VOLTAGE		OUTPUT VOLTAGE		CONTROL TYPE
		○ 120V - 277V		○ 24V		○ PH/0-10V
	Model	Input Voltage (V)	Input Current (A)	Frequency	Nominal Output Voltage (VDC)	Nominal Output Wattage (W)
○○○○○○○ 30W	QT-CAB-QZ-30x1	120/277	0.50/0.22	50/60	24	30
	QT-CAB-QZ-30x2	120/277	1.00/0.44	50/60	24	60
	QT-CAB-QZ-30x3	120/277	1.50/0.66	50/60	24	90
	QT-CAB-QZ-30x4	120/277	2.00/0.88	50/60	24	120
	QT-CAB-QZ-30x5	120/277	2.50/1.10	50/60	24	150
	QT-CAB-QZ-30x6	120/277	3.00/1.33	50/60	24	180
	QT-CAB-QZ-30x7	120/277	3.50/1.55	50/60	24	210
○○○○○○○ 60W	QT-CAB-QZ-60x1	120/277	0.90/0.39	50/60	24	60
	QT-CAB-QZ-60x2	120/277	1.80/0.78	50/60	24	120
	QT-CAB-QZ-60x3	120/277	2.70/1.17	50/60	24	180
	QT-CAB-QZ-60x4	120/277	3.60/1.56	50/60	24	240
	QT-CAB-QZ-60x5	120/277	4.50/1.95	50/60	24	300
	QT-CAB-QZ-60x6	120/277	5.40/2.34	50/60	24	360
	QT-CAB-QZ-60x7	120/277	6.30/2.73	50/60	24	420
○○○○○○○ 96W	QT-CAB-QZ-96x1	120/277	1.30/0.56	50/60	24	96
	QT-CAB-QZ-96x2	120/277	2.60/1.12	50/60	24	192
	QT-CAB-QZ-96x3	120/277	3.90/1.68	50/60	24	288
	QT-CAB-QZ-96x4	120/277	5.20/2.24	50/60	24	384
	QT-CAB-QZ-96x5	120/277	6.50/2.80	50/60	24	480
	QT-CAB-QZ-96x6	120/277	7.80/3.36	50/60	24	576

- 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 QT-CAB-QZ-30, DO NOT CONNECT MORE THAN ONE LUMINAIRE HEAD ASSEMBLIES OF 30W MAXIMUM EACH TO ANY ONE OUTPUT.
FOR QT-CAB-QZ-60, DO NOT CONNECT MORE THAN ONE LUMINAIRE HEAD ASSEMBLIES OF 60W MAXIMUM EACH TO ANY ONE OUTPUT.
FOR QT-CAB-QZ-96, DO NOT CONNECT MORE THAN ONE LUMINAIRE HEAD ASSEMBLIES OF 96W MAXIMUM EACH TO ANY ONE OUTPUT.

POUR QT-CAB-QZ-30, NE CONNECTEZ PAS PLUS D'UN ENSEMBLE DE TÊTES DE LUMINAIRE DE 30W MAXIMUM CHACUN À UNE SORTIE.
POUR QT-CAB-QZ-60, NE CONNECTEZ PAS PLUS D'UN ENSEMBLE DE TÊTES DE LUMINAIRE DE 60W MAXIMUM CHACUN À UNE SORTIE.
POUR QT-CAB-QZ-96, NE CONNECTEZ PAS PLUS D'UN ENSEMBLE DE TÊTES DE LUMINAIRE DE 96W MAXIMUM CHACUN À UNE SORTIE.

QTL
MILFORD, CT U.S.A.
(203) 367-8777
www.QTL.lighting

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