



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

24V DC Power Supply - 30W-576W



- Housing can be recessed or surface mounted
- 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 allows for up to 7 drivers with discrete 24V output and 0-10 dimming control
- Designed for interior use

QT-CAB ORDERING PROCESS

A Specify housing

B Specify power supply tray details

A. HOUSING

A1	A2
PRODUCT	COLOR
QT-CAB	

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

B. POWER SUPPLY TRAY DETAILS

B1	B2	B3	B4	B5	B6	B7
PRODUCT	WATTAGE	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CONTROL	ASSEMBLY	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	130W 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	160W 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	196W 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	✓
SW24/5.0, SW-HE, SW-HE+	✓
SD-SW24/1.0-4.0	✓
SD-SW24/6.0	✓
SW-1A	
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	



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
- 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

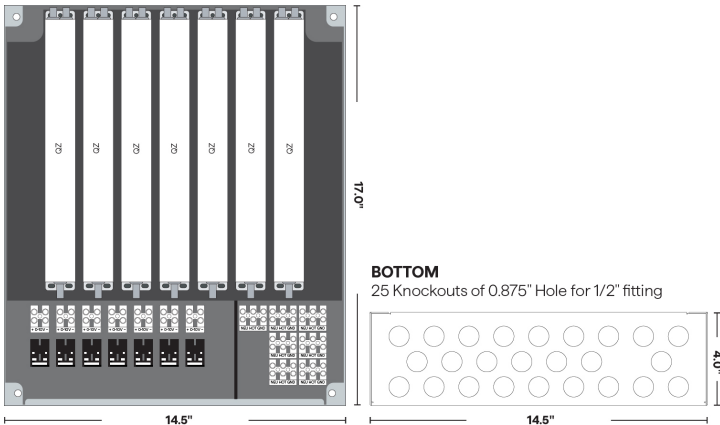
VDC	Load Wattage (W)	Distance from PS for 5% Voltage Drop								
		10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	913	574	361	227	143	90	57	36	22
	30	457	287	181	114	71	45	28	18	11
	60	228	144	90	57	36	23	14	9	6
	80	171	108	68	43	27	17	11	7	4
	96	143	90	56	36	22	14	9	6	4



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A1 PRODUCT - DIMENSIONS



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.

B2 TECHNICAL INFORMATION

Wattage	Max Load (Watts)	Secondary Voltage	Max Prim Amps @ 120V	Max Prim Amps @ 277V
30W	1x30W	24VDC	0.29A	0.12A
60W	1x60W	24VDC	0.57A	0.24A
100W	1x100W	24VDC	0.95A	0.40A
200W	2x100W	24VDC	1.90A	0.80A
300W	3x100W	24VDC	2.85A	1.20A
400W	4x100W	24VDC	3.80A	1.60A
500W	5x100W	24VDC	4.75A	2.00A
600W	6x100W	24VDC	5.70A	2.40A

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 120-277 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



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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

A2 COLOR

Black Powder Coat Finish

White (Standard)

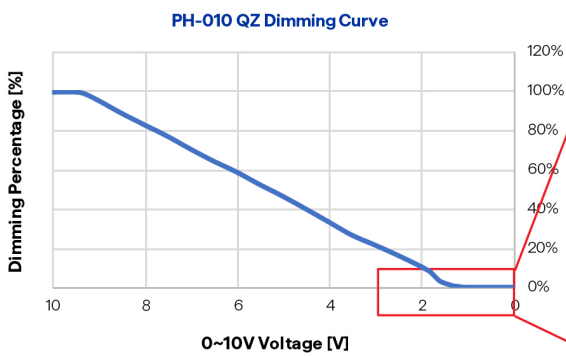
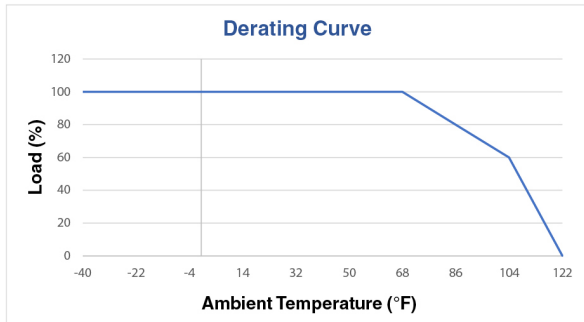
COMPLIANCE

- 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

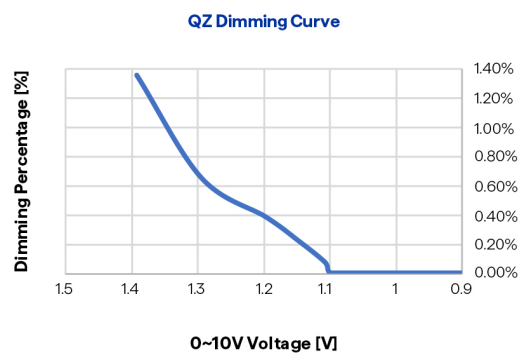


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Exploded View



COMPATIBLE WIRING ACCESSORIES



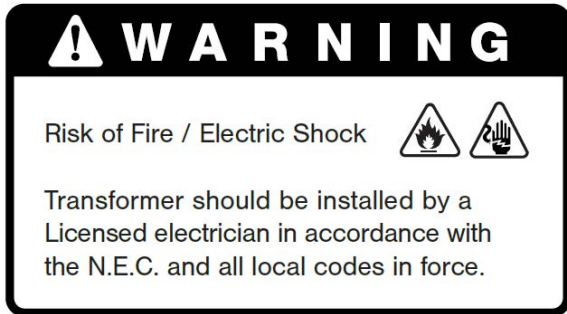
UL Listed, miniature
junction box, DRY/DMP
(WET rated with silicone)



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

LED Power Supply Installation Instructions

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



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

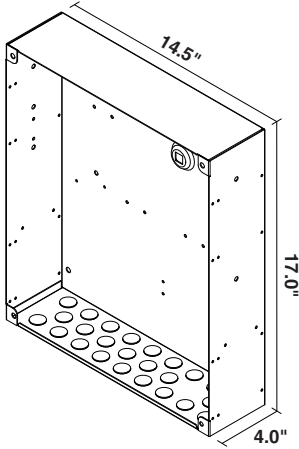
- Wear rubber shoes and work on a sturdy wooden or fiberglass ladder.
- This power supply must be installed according to the National Electric Code and local codes and ordinances.
- This power supply is to be installed and serviced only by an licensed electricians.
- This power supply is to be installed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



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

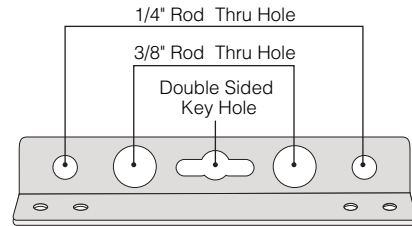
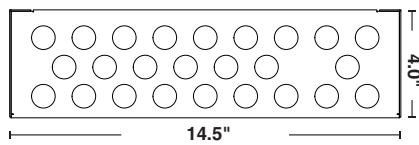
LED Power Supply Installation Instructions

HOUSING



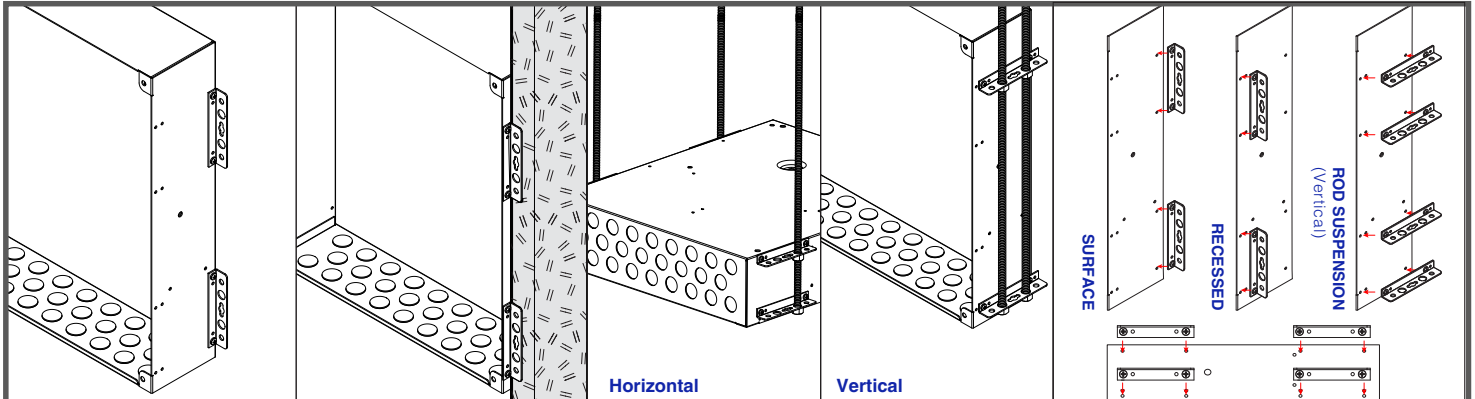
BOTTOM

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

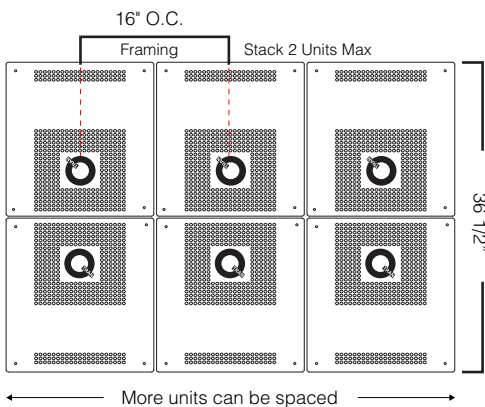
RECESSED MOUNT

ROD SUSPENSION MOUNT (Comes with 4 brackets standard)

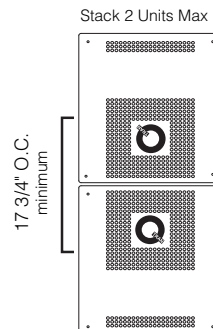
ROD SUSPENSION (Horizontal)

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.

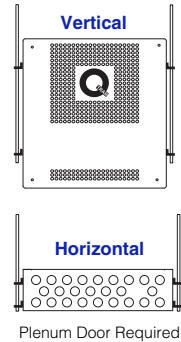
SURFACE SPACING



SURFACE STACKING



ROD SUSPENSION



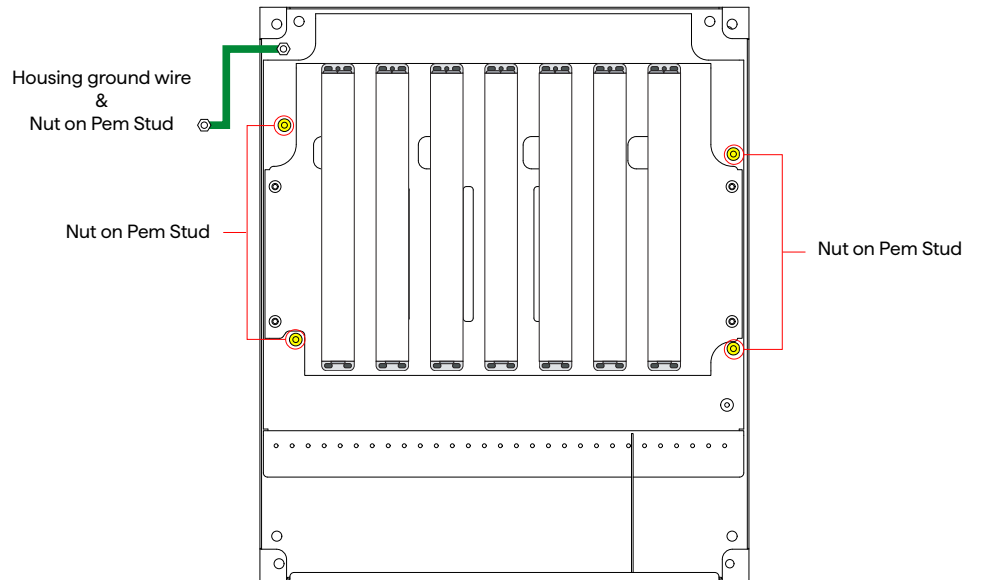
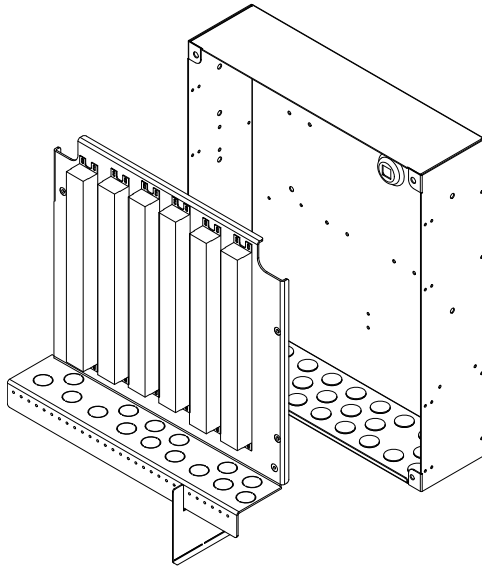
NOTE: Rods not included.



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LED Power Supply Installation Instructions

POWER TRAY INSTALL



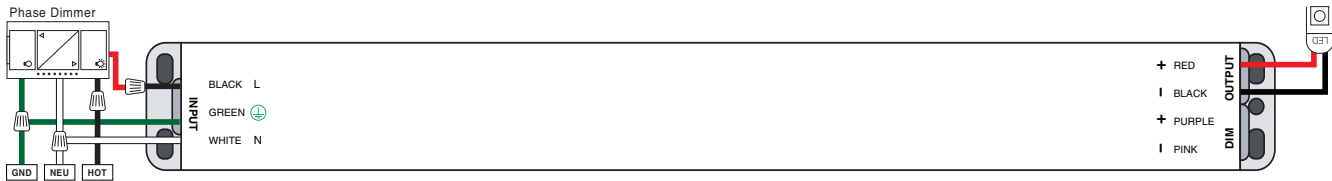


QT-CAB-QZ-PH/0-10V

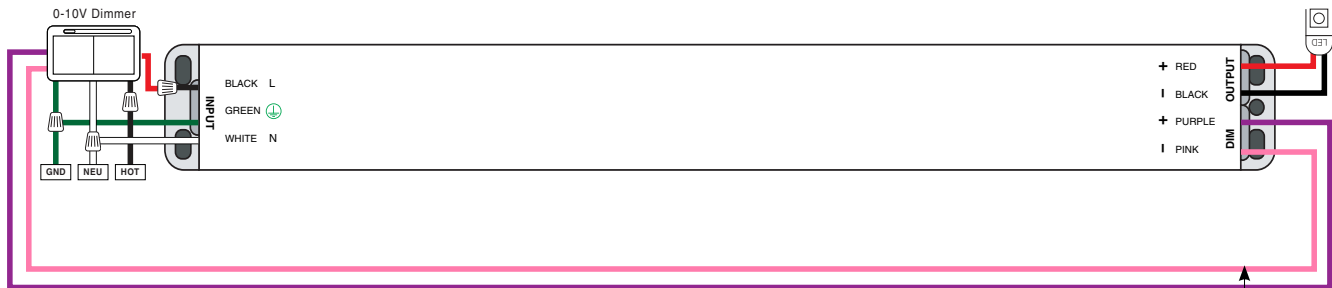
LED Power Supply Installation Instructions

WIRING CONFIGURATIONS

Phase Dimming



0-10V Dimming



This wire can be pink or grey

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



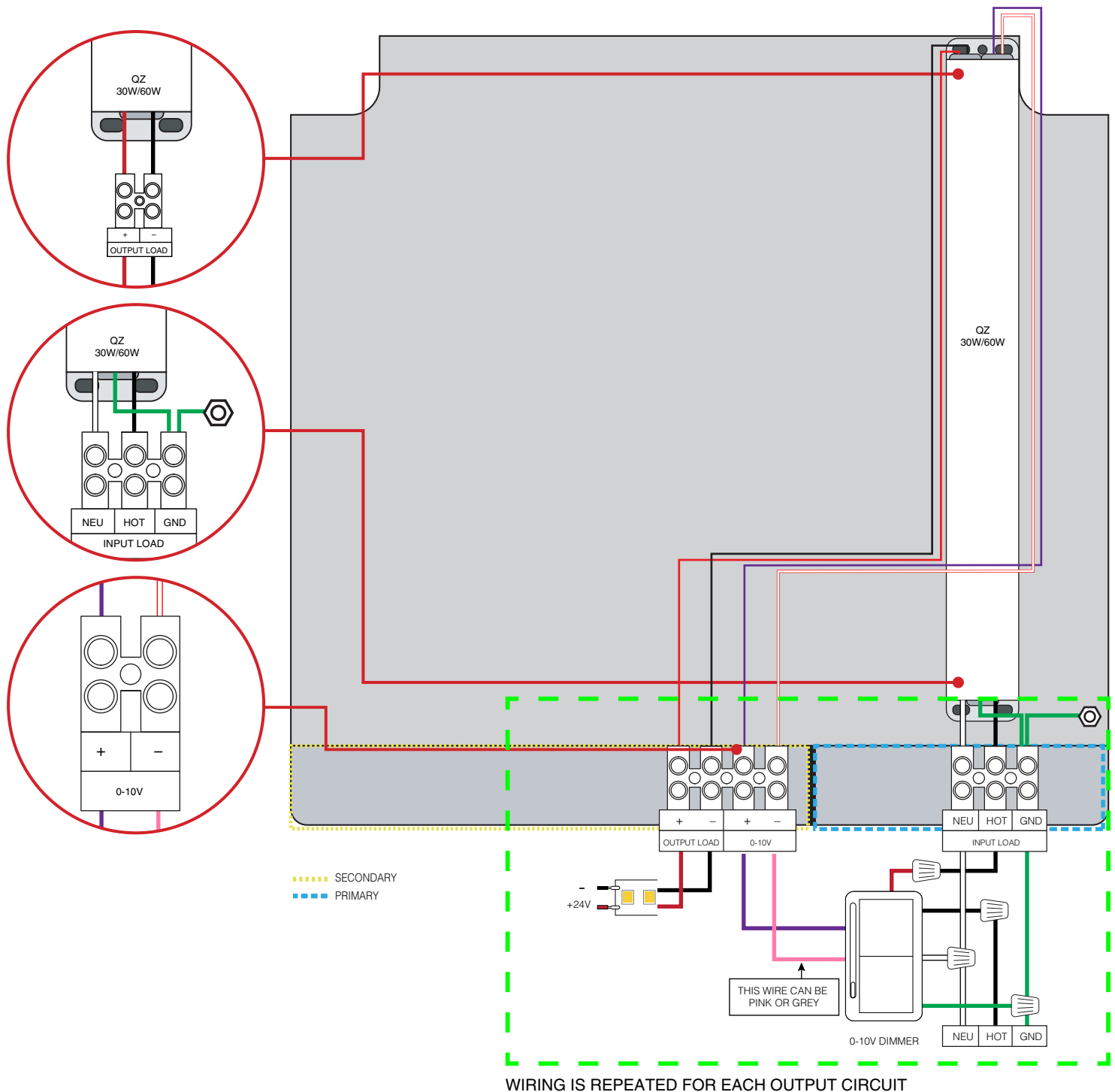
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LED Power Supply Installation Instructions

WIRING DIAGRAM

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

30W/60W





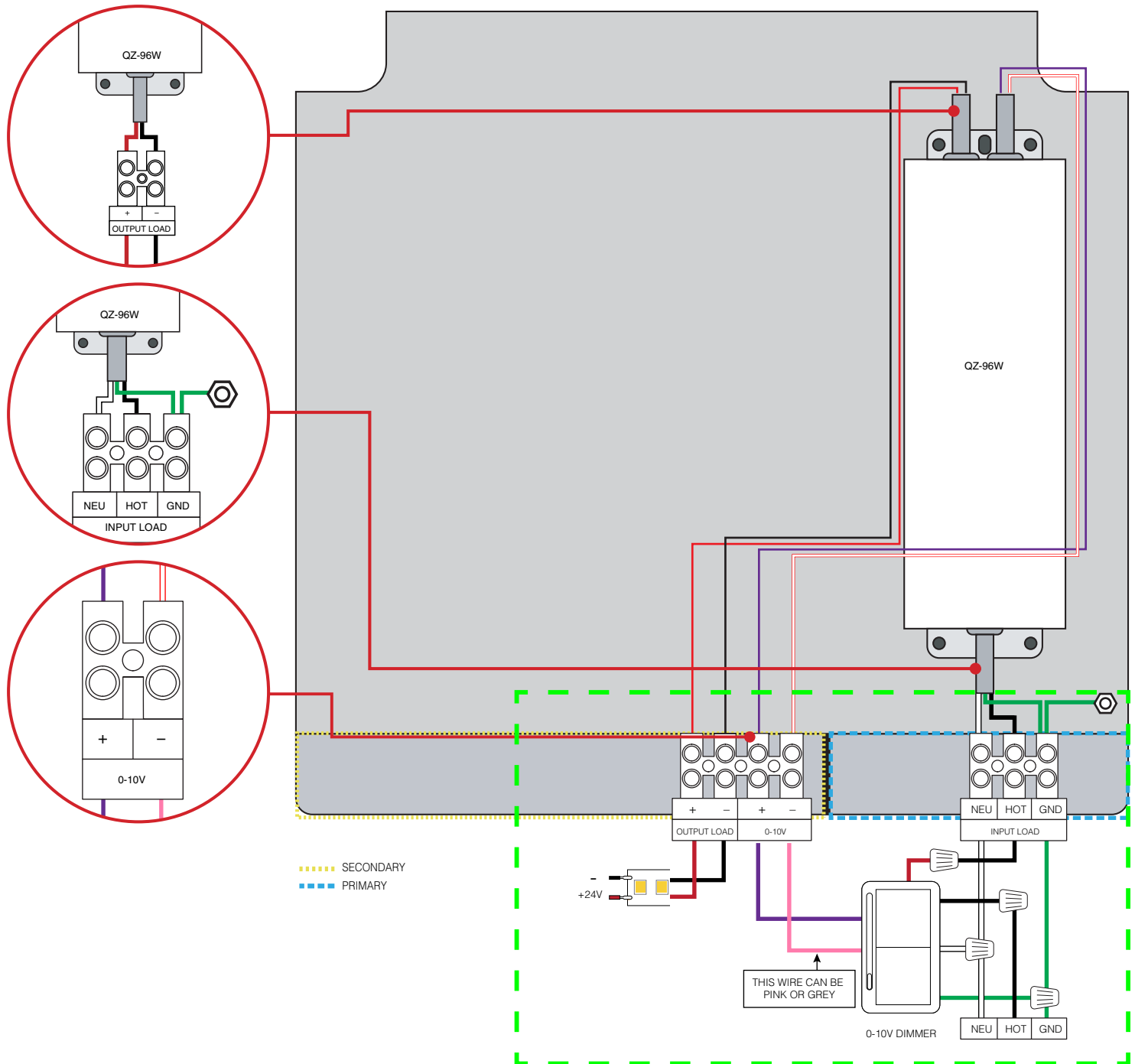
QT-CAB-QZ-PH/0-10V

LED Power Supply Installation Instructions

WIRING DIAGRAM

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

96W



WIRING IS REPEATED FOR EACH OUTPUT CIRCUIT



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

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LOW VOLTAGE
LIGHTING SYSTEM

CLASS: 3425 - 15
3425 - 95





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