QOM-PH-PS

24V DC Power Supply - 80W-160W



- Constant voltage electronic power supply compatible with a variety of third-party forward or reverse phase dimming modules
- Indoor and outdoor rated with an additional option to be used in pool & spa applications
- This surface mountable power supply comes standard in black and is also available in stainless steel
- UL and Class II Listed

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE	5 COLOR
QOM-PH-PS		120V	24VDC	

Sample Part Number: **QOM-PH-PS-80W-120V-24VDC-BK**

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE	5 COLOR
QOM-PH-PS	**80W** **160W**	**120V**	**24VDC**	**BK** Black Powder Coat Finish (Standard) **SS** 316 Marine Grade Stainless Steel

PRODUCT INFORMATION

- Suitable for dry, damp and wet locations
- Suitable for indoor or outdoor use
- Suitable for pool and spa application
- Fits up to (2) 80W 24VDC drivers
- Forward phase and reverse phase dimmer control or on/off
- Integral wiring compartments for reduced installation costs
- Active Power Factor Correction, PF>0.9
- Energy Star Compliant
- Built-in protection:
  SCP (Short Circuit Protection)
  OTP (Over Temperature Protection)
  OVP (Over Voltage Protection)
  OCP (Over Current Protection)
- Completely potted design, no venting required
- Operating temperature range: -40 to +140 °F
- Constant Voltage
- 5 year warranty
- 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 System
  - ANSI/ UL Standard 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products
  - CSA Std C22.2 No 250.13-14 - Light Emitting Diode (LED) Equipment for Lighting Applications
- Landscape Lighting Systems
  - CSA Class 3402-15 and Class 3402-95
  - CSA Standard C22.2 No. 250.7-07 - Extra-Low-Voltage Landscape Lighting Systems
  - ANSI/ UL Standard 1838 - Low Voltage Landscape Lighting Systems
  - ANSI/ UL Standard 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products
  - CSA Std C22.2 No 250.13-14 - Light Emitting Diode (LED) Equipment for Lighting Applications
- Hydromassage (Pool and Spa)
  - CSA Class 3425-46 and class 3425-96
  - UL Standard 379 - Power Unit for Fountain, Swimming Pool and Spa Luminaires
  - CSA STD C22.2 NO.89-15-Swimming Pool Luminaire, Submersible Luminaires and Accessories

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QOM-PH-PS

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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

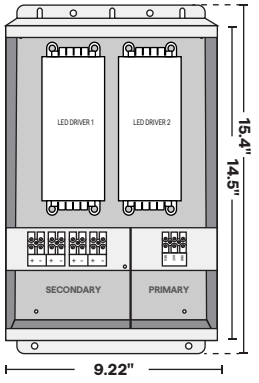
VOLTAGE DROP

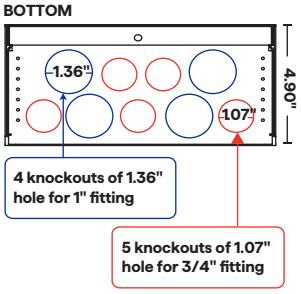
Distance from PS for 1% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	192	121	76	48	30	19	12	7	5
24	30	96	60	38	24	15	9	6	4	2
24	45	64	40	25	16	10	6	4	2	2
24	60	48	30	19	12	8	5	3	2	1
24	80	36	23	14	9	6	4	2	1	1

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

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

1 PRODUCT - DIMENSIONS





2 TECHNICAL INFORMATION

Wattage	Max Load (Watts)	Secondary Voltage
80W	1x80W	24VDC
160W	2x80W	24VDC

HOUSING

- 18 gauge welded steel enclosure: 15.4"L x 9.22"W x 4.90"D
- Door: 14.5"L x 9.27"W
- Knockouts: 9
- Built-in support bracket incorporated to secure housing for surface mounting

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QOM-PH-PS

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SPECIFICATIONS

Input	Min	Nom	Max
Voltage (RMS)	100	120	130
Frequency (Hz)	47	50/60	63
Power Factor	0.9	-	-

Output	Min	Nom	Max
Line Regulation (%)	-10	-	10
Load Regulation (%)	-	-	5

Environmental	Min	Nom	Max
Storage Temperature (°C)	-40	-	85
Operating Temperature	-40	-	60
Relative Humidity (%)	5	-	95
MTBF (Hours @ 25°C (77°F) Full Load)	80,000	-	-

Expected Lifetime	Temp
50,000 hours	65°C
30,000 hours	75°C

PROTECTIONS

- Short Circuit Protection (SCP)
- Over Voltage Protection (OVP)
- Over Current Protection (OCP)
- Over Temperature Protection (OTP)
- Hiccup-Mode, Auto-Recovery upon removal of short
- 105% of Voltage (typ) Min

COMPLIANCE

- EMI/RFI
  - CISPR-22 Class B
  - FCC part 15 Class B
  - EN55015, EMC
- CSA Certified
  - UL-2108
  - UL-1838
  - UL-8750
  - UL-379
  - CSA C22.2 No 250.7-07
  - CSA C22.2 No 250.0-08
  - CSA C22.2 No 250.13-14
  - CSA C22.2 No. 89-15
  - CE(IEC/EN61347-1, IEC/EN61347-2-13)

5 COLOR



Black Powder Coat Finish (Standard)

316 Marine Grade Stainless Steel

SUPPORTED DIMMING LIST 90~120V AC ELV (REVERSE PHASE) & TRIAC (FORWARD PHASE) DIMMER

NOTE: * -5-100% dimming range.
Flicker tests were carried out to ensure full range, flicker-free dimming from min to full load.
This is a representative list of dimmers only. QTL makes no specific recommendation on product selection and there are no warranties of performance or compatibility implied. Refer to dimmer manufacturers for further information on LED compatibility. Lutron and their product brand names are registered trademarks.

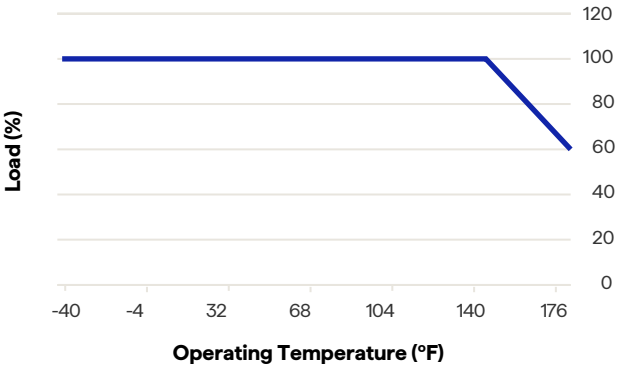
Brand	Model	Dimming Rating Power (max)	LED Flicker Free Test
Lutron	DVCL-153PL (C/L)	600W	Pass
Lutron	TGCL-153P (C/L)	600W	Pass
Lutron	AB-600M-WH (Abella)	600W	Pass*
Lutron	D-600RH-DK (Rotary)	600W	Pass
Lutron	D-600R-WH (Rotary)	600W	Pass
Lutron	D-603PG-WH (Rotary)	600W	Pass
Lutron	GL-603PH-DK (GLYDER-3-way)	600W	Pass
Lutron	GL-600-WH (Glyder)	600W	Pass*
Lutron	MA-600GH-WH (Ecodim Digital with indicator leds)	500W	Pass*
Lutron	MIR-600THW-WH (RC Digital Fade Dimmer)	600W	Pass
Lutron	MS-VP600GHW-WH (Vacancy Sensor w/eco-dim Dimmer)	600W	Pass*
Lutron	S-600PH-WH (SKYLARK)	600W	Pass
Lutron	SELV-300PH-WH (SKYLARK-Single Pole)	300W	Pass
Lutron	TG-600PH-WH (Toggler)	600W	Pass
Lutron	TG-603PFH-WH (Toggler-eco-dim)	600W	Pass
Lutron	TT-300NLH-BL	600W	Pass
Cooper Wiring Devices	RI061-A (Rotary Dimmer w/ Non-Present)	600W	Pass
Cooper Wiring Devices	6001	600W	Pass
Cooper Wiring Devices	SLC03P (C/L)	600W	Pass
Cooper Wiring Devices	SI06P (non C/L)	600W	Pass
GE	DI61-271	600W	Pass
GE	DIB61-71	600W	Pass
GE	DIT61-71	600W	Pass
GE	DIT61-S71	600W	Pass
Legrand	V8051	600W	Pass

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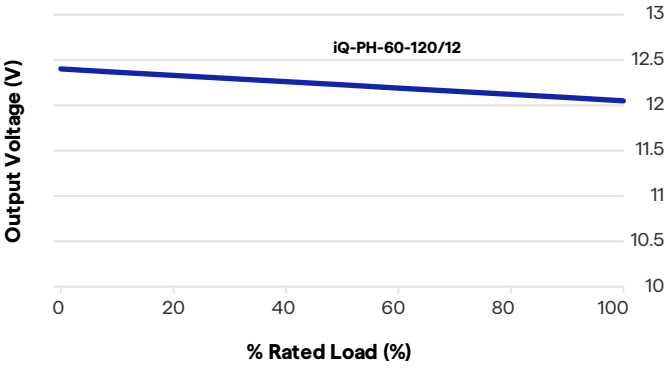
QOM-PH-PS

24V DC Power Supply - 80W-160W

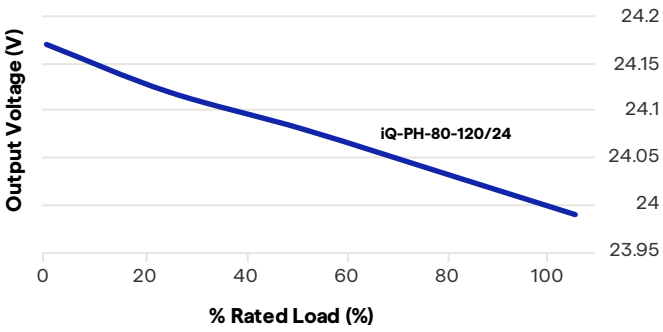
Derating Curve



Output Voltage Vs. Load



Output Voltage Vs. Load

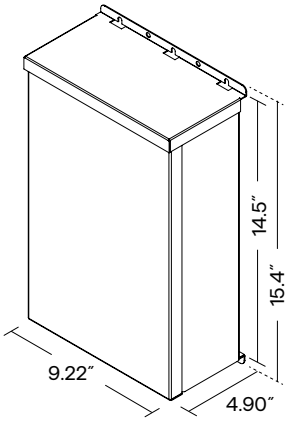


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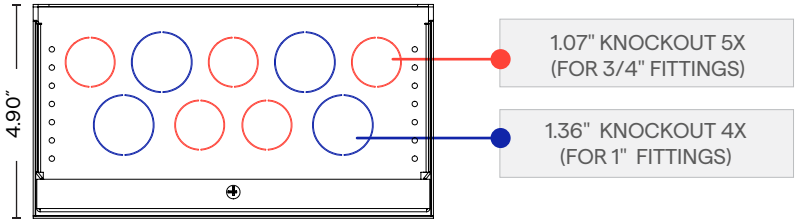
QOM-PH-PS

Installation Instructions

Housing

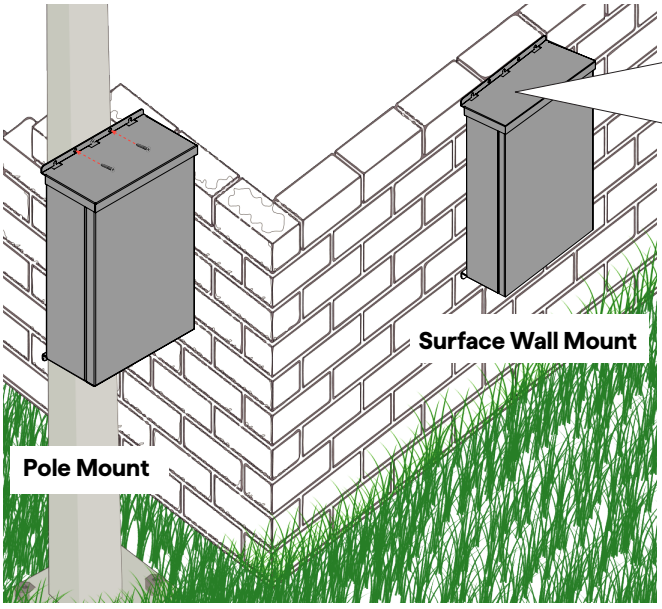


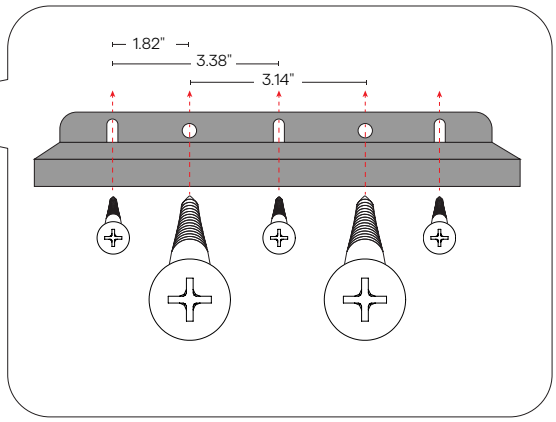
ISOMETRIC VIEW

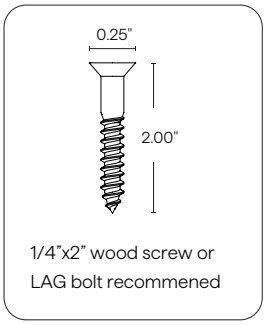


BOTTOM VIEW

Mounting Options







NOTE:

- To order additional lengths of wire for connection in the secondary. Please call factory for availability.
- QOM must be installed as shown.

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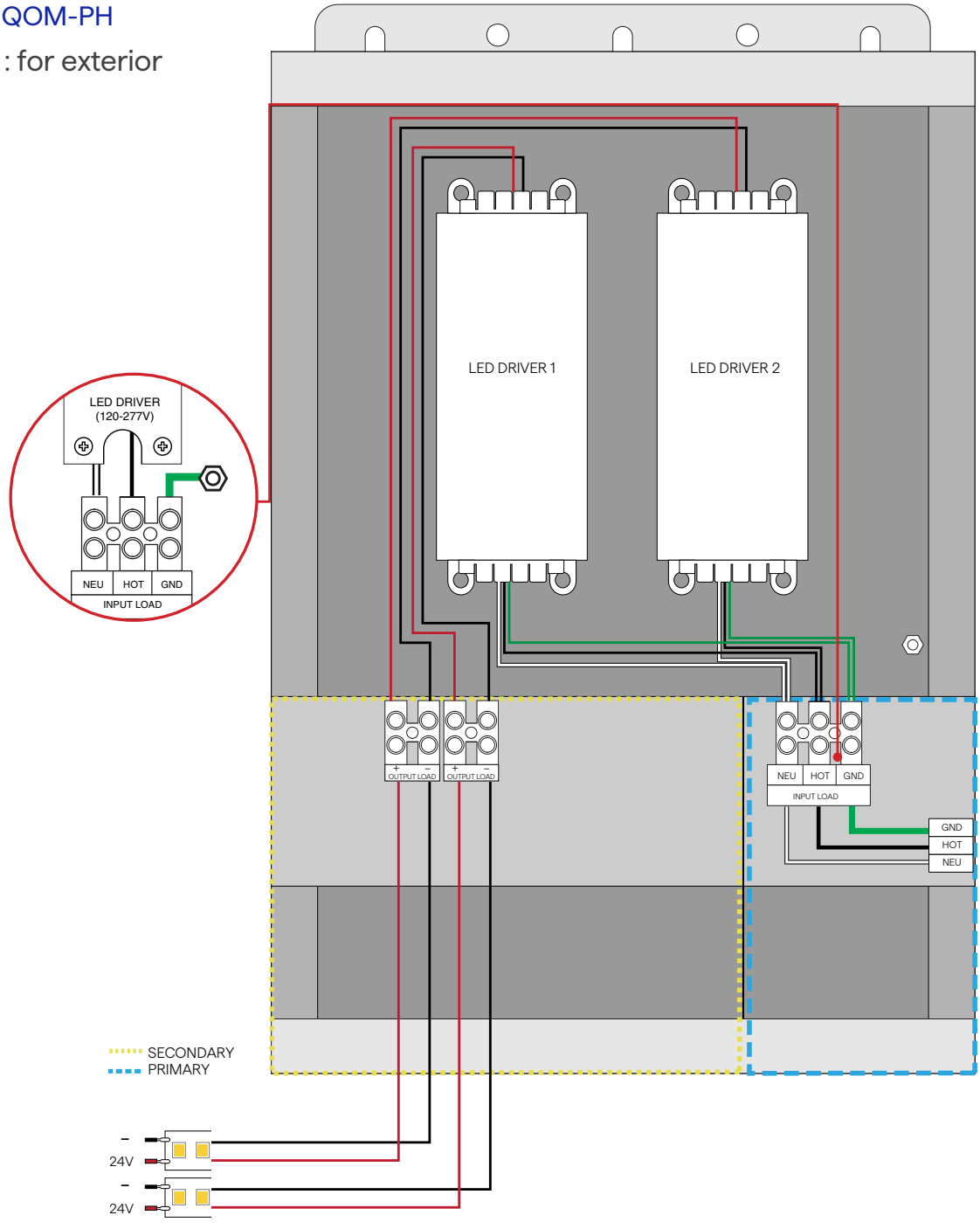
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Installation Instructions

Driver with No Dimming Module

QOM-PH

: for exterior



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QOM-PH-PS

Installation Instructions

Swimming Pool Installation

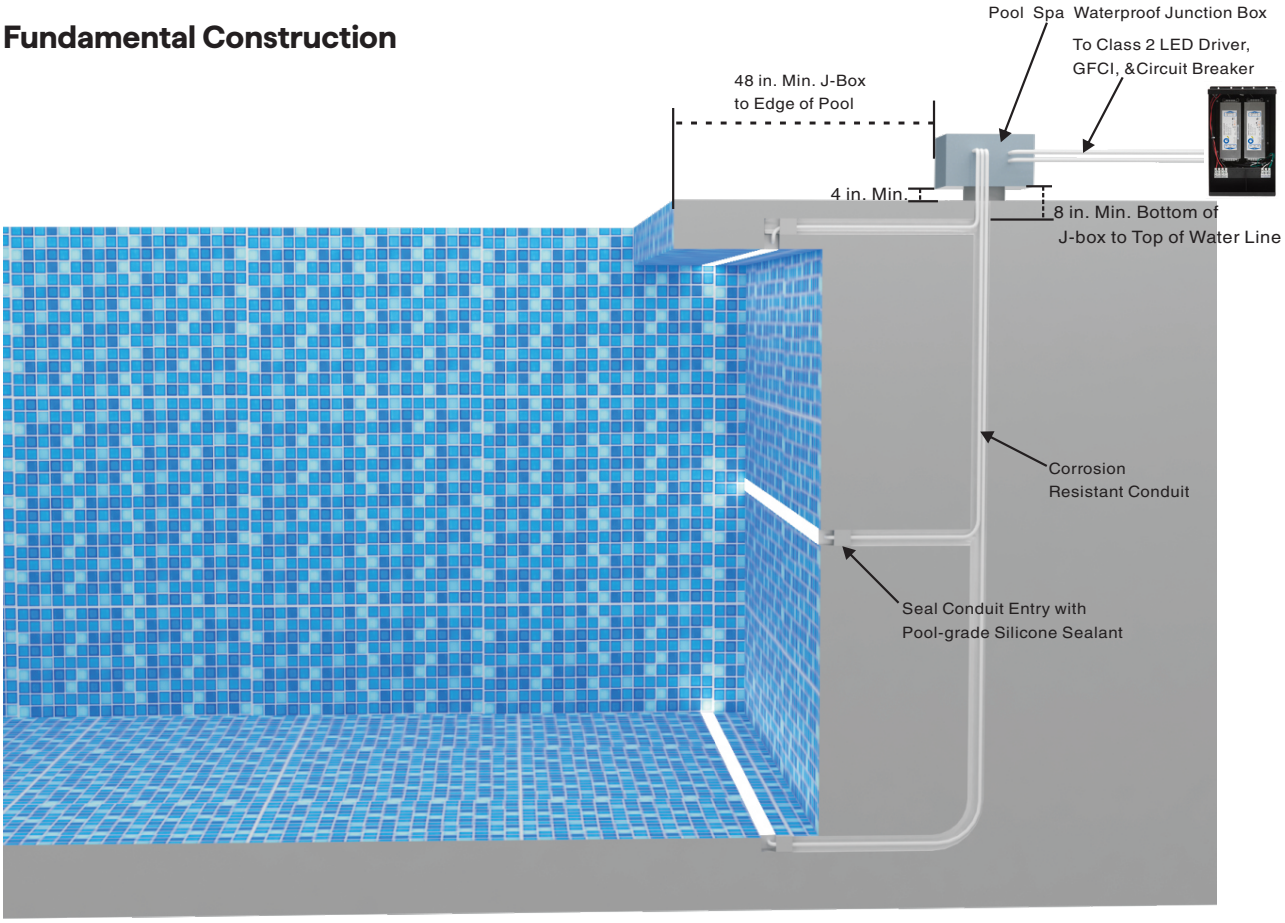
REGULATIONS

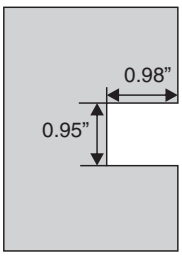
In accordance with the requirements of NEC680 regulation in the United States, when an illumination light is installed in the swimming pool, the distance from the bottom of the terminal box to the ground shall be no less than 4 inches. The vertical distance to the water surface of the swimming shall not be less than 8 inches, and the horizontal distance to the water edge of the swimming pool shall not be less than 48 inches.

REQUIREMENT FOR POWER SUPPY

Please use only an isolating low voltage power supply with ungrounded output, evaluated for swimming pool use.

Fundamental Construction





For swimming pool, the embedded installation is strongly suggested so as to secure the swimmers' safety and avoid the damage to lights, so a slot for implanting profiles should be prepared on mounting surface first, suggested slot sizes: 0.95” in width, 0.98” in depth.

All the fundamental constructions, including the installation of junction box and switch, cable bushing and laying, the digging of slots, etc., should be done before the light installation.

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QOM-PH-PS

Installation Instructions

CSA Requirements

- Power unit for use with Fountain, Swimming Pool, and Spa Luminaires
- Suitable for indoor and outdoor 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.
- Keep enclosure cover covered.

QOM-PH-PS

Model	Input Voltage (V)	INPUT VOLTAGE 120V Input Current (A)	INPUT VOLTAGE 120V Frequency	OUTPUT VOLTAGE 24V Nominal Output Voltage (VDC)	OUTPUT VOLTAGE 24V Nominal Output Wattage (W)
QOM-PH-PS-80	120	1.10	50/60	24	80
QOM-PH-PS-160	120	2.20	50/60	24	160

WIRE CONNECTION

Red = +24V
Black = -

- Suitable for indoor, outdoor or pool & spa use
  CONVIENT POUR UNE UTILISATION EN INTÉRIEUR, EN EXTÉRIEUR OU EN PISCINE ET SPA
- Wall mount only
  INSTALLATION MURALE SEULEMENT
- Suitable for mounting within 1.2m (4ft) of the ground
  PEUT ÊTRE INSTALLÉ À MOINS DE 1.2 M (4 PI) DU SOL
- Suitable for use with submersible luminaires or submersible pumps
  CONVIENT POUR UNE UTILISATION AVEC DES LUMINAIRES SUBMERSIBLES OU DES POMPES SUBMERSIBLES
- Suitable for wet locations
  CONVIENT AUX EMPLACEMENTS MOUILLÉ
- **CAUTION -** This control unit has more than one power supply point disconnect all power supplies before servicing
  ATTENTION - CETTE UNITÉ DE CONTRÔLE DISPOSE DE PLUSIEURS POINTS D'ALIMENTATION ÉLECTRIQUE, DÉBRANCHEZ TOUTES LES ALIMENTATIONS AVANT DE PROCÉDER À L'ENTRETIEN.
- For supply connections use wire rated for at least 75°C
  POUR LES CONNEXIONS D'ALIMENTATION, UTILISEZ UN FIL ÉVALUÉ AU MOINS À 75°C.
- Keep enclosure cover closed
  GARDEZ LE COUVERCLE DU BOÎTIER FERMÉ
- Read installation instructions before wiring
  LIRE LES INSTRUCTIONS D'INSTALLATION AVANT LE CÂBLAGE
- Class 2
  CLASSE 2

Power unit for use with fountain, swimming pool, and spa luminaires.
UNITÉ D'ALIMENTATION À UTILISER AVEC LES LUMINAIRES DE FONTAINE, DE PISCINE ET DE SPA.

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.

WARNING: RISK OF FIRE
IF INSTALLATION INVOLVES RUNNING WIRE THROUGH A BUILDING STRUCTURE, SPECIAL WIRING METHODS ARE NEEDED. CONSULT A QUALIFIED ELECTRICIAN.
RISQUE D'INCENDIE. SI L'INSTALLATION IMPLIQUE UN FIL DE COURANT À TRAVERS UNE STRUCTURE DE BÂTIMENT, DES MÉTHODES DE CÂBLAGE SPÉCIALES SONT NÉCESSAIRES. CONSULTEZ UN ÉLECTRICIEN QUALIFIÉ

DO NOT CONNECT TWO OR MORE POWER SUPPLIES IN PARALLEL.
NE CONNECTEZ PAS DEUX OU PLUSIEURS ALIMENTATIONS EN PARALLÈLE.

CAUTION:
ONLY USE THE MAXIMUM WATT LAMP LOAD THAT IS INDICATED BY THE MODEL NUMBER.
UTILISEZ UNIQUEMENT LA CHARGE MAXIMALE DE LA LAMPE INDIQUÉE PAR LE NUMÉRO DE MODÈLE.

QTL
MILFORD, CT U.S.A.
(203) 367-8777
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LOW VOLTAGE LIGHTING SYSTEM, LED LANDSCAPELIGHTING SYSTEM COMPONENTS & HYDROMASSAGE COMPONENT

CLASS: 3425-15
3425-46
3425-95
3425-96
3402-15
3402-95

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