



QOMD

The QOM Series is designed specifically to power outdoor low voltage lighting systems. The QOM features two taps on the primary side to recover dimmer losses and four taps on the secondary side for multiple load distances. The QOM is UL Listed for indoor and outdoor use as well as being suitable for wet locations

MULTI-VOLT & TAPS

- Two separate power supplies in one enclosure
- Primary Boost Taps for a switched or a dimmed tap to compensate for losses when dimming.
- Four (4) secondary taps provide:
 - 12V** : 12, 13, 14, 15
 - 24V** : 24, 25, 26, 27
- The advantage is that loads at varying distances from the PSC can be tapped on different taps to recover voltage drop, allowing you to get the correct voltage at your load and produce between 85%-100% light output. (See Q-TRAN Voltage drop Calculator)
- Loads maybe connected to one or more of the primary taps up to the full watt rating of the PSC.
- 1 magnetic circuit breaker (per toroid).
- All wiring by the electrical contractor must be Class 1 compliant to N.E.C.

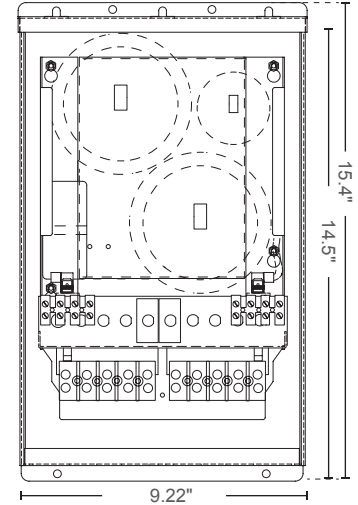
TOROIDAL CHOKE

Q-Tran's Standard Choke, or "Debuzzing Coil" reduces noise when dimming and helps negate in-rush current. It allows for quiet operation and eliminates nuisance tripping.

LOW VOLTAGE LIGHTING POWER SUPPLY

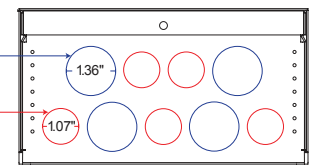
- LANDSCAPE LIGHTING POWER UNIT
- SUITABLE FOR DAMP AND WET LOCATIONS
- SUITABLE FOR USE WITH SUBMERSIBLE LUMINAIRES OR SUBMERSIBLE PUMPS
- SUITABLE FOR INDOOR/OUTDOOR USE
- UL 1838 & 2108 LISTED
- USE DIMMERS RATED FOR MAGNETIC LOW VOLTAGE LOAD WITH NEUTRAL WIRE
- ISOLATION TOROIDAL TRANSFORMER
- 50/60 CYCLE
- CSA C22.2 NO. 250.0-08 & 250.7-07
- MADE IN THE U.S.A.

INDOOR LANDSCAPE 239924 WET LISTED E247732



4 Knockouts of 1.36" Hole for 1" fitting

5 Knockouts of 1.07" Hole for 3/4" fitting



*For information on this Power Supply please consult the Q-Tran Indoor catalog or visit the Q-Tran website.

ORDERING GUIDE						
1	2	3	4	5	6	7
Model	Prim. V	Sec. V	No.	Amp.	Choke	Option
QOMD	- [] / []	- []	X []	+ []	+ []	+ []
XXXX	- [] / []	- []	X []	+ []	+ []	+ []
1 Size	Max Load (Watts)	PSC Efficiency	Max Energy Rating (Watts)	Max PSC Rating (VA)	Max Prim. Amps @ 120V	Max Prim. Amps @ 277V
60ST	60W	92	65W	79VA	.66 A	.28 A
100ST	100W	92	108W	135VA	1.1 A	.48 A
150ST	150W	92	163W	200VA	1.7 A	.70 A
300ST	300W	93	322W	400VA	3.4 A	1.5 A
2 Primary Voltage					7 Options	
120(60Hz)	240 (60Hz)*	277(60Hz)*	BK Black Powder Coat Finish - Standard SS 316 Marine Grade Stainless Steel CP Cord & Plug			
3 Secondary Voltage					QOMD Combinations	
12V	24V	120V	QOMD-60x2ST QOMD-60/100ST QOMD-60/150ST QOMD-60/300ST QOMD-100x2ST QOMD-100/150ST QOMD-100/300ST QOMD-150x2ST QOMD-150/300ST QOMD-300x2ST			
4 Number of Breakers					QOMD Combinations	
1 (One Secondary Circuit Breaker can be used per toroid)					QOMD-60x2ST QOMD-60/100ST QOMD-60/150ST QOMD-60/300ST QOMD-100x2ST QOMD-100/150ST QOMD-100/300ST QOMD-150x2ST QOMD-150/300ST QOMD-300x2ST	
5 Secondary Breaker Amperage					QOMD Combinations	
AMPS	Max 12V Load	Max 24V Load	QOMD-60x2ST QOMD-60/100ST QOMD-60/150ST QOMD-60/300ST QOMD-100x2ST QOMD-100/150ST QOMD-100/300ST QOMD-150x2ST QOMD-150/300ST QOMD-300x2ST			
5	60W	120W				
10	120W	240W				
12.5	150W	300W				
15	180W	360W				
20	240W	480W				
25	300W	600W				
6 Choke					QOMD Combinations	
CK-S: 60W-300W					QOMD-60x2ST QOMD-60/100ST QOMD-60/150ST QOMD-60/300ST QOMD-100x2ST QOMD-100/150ST QOMD-100/300ST QOMD-150x2ST QOMD-150/300ST QOMD-300x2ST	
Ordering Example						
QOMD-300ST - 120/12 - 1x15 + CK-S XXXX-300ST - 120/24 - 1x5 + CK-S						

*Not Standard, Call Factory For options

2017.V02

PROJECT NAME	DATE	COMPANY	TYPE	NOTE

QOM Power Supply Installation Instructions

Must be installed by licensed electrician.



E247732

 **US LISTED**
LANDSCAPE POWER
SUPPLY 16HW

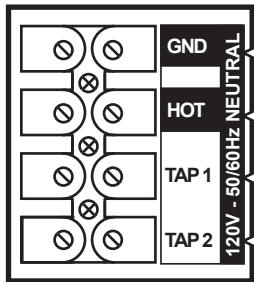

C US
239924

ENLIGHTENED THINKING®

QOM Single Series 60W-750W

Primary Line Voltage

1 Control Zone



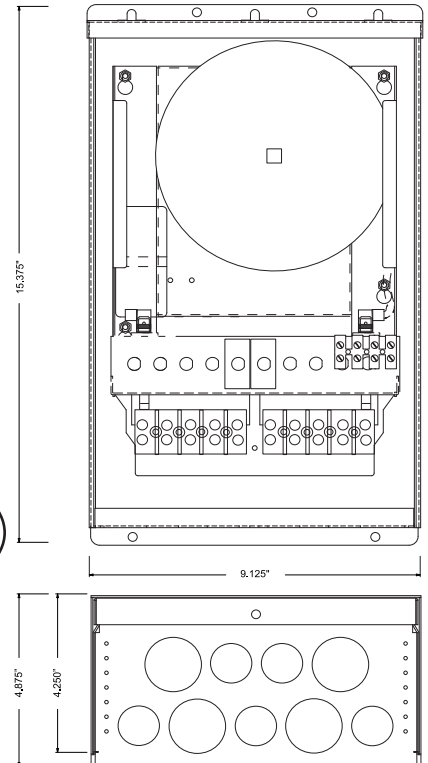
Land Ground

Land Hot

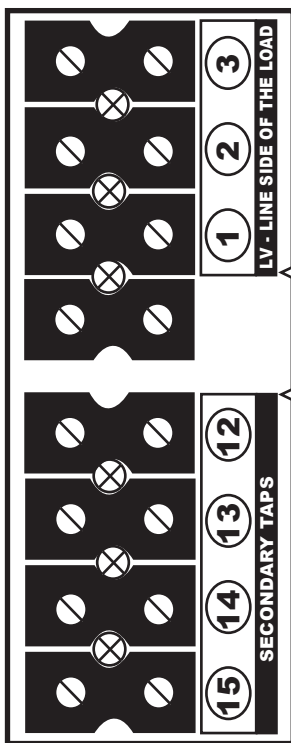
Land Neutral

Chose either tap 1 (switch) or 2 (dimmer; long primary run or low input voltage (115V or less))

Must test all voltage readings with a True RMS Voltage Meter when controlled by a dimmer. Do not exceed secondary voltage!



Secondary Low Voltage



For longer runs you may need to go to a higher tap & or larger wire gauge on secondary side.

Step 1.

Connect line side or "hot" side of the low voltage connection. Start with position # 1.

Step 2.

Connect common side to one of the low voltage terminal blocks.

* Repeat step 1 & 2 for every new lead connection.

	L.V. Secondary feeds go to a 85 AMP rated terminal block.	6	#14
	Each terminal is UL listed to have the following capacity:	4	#12
		4	#10
		2	#8

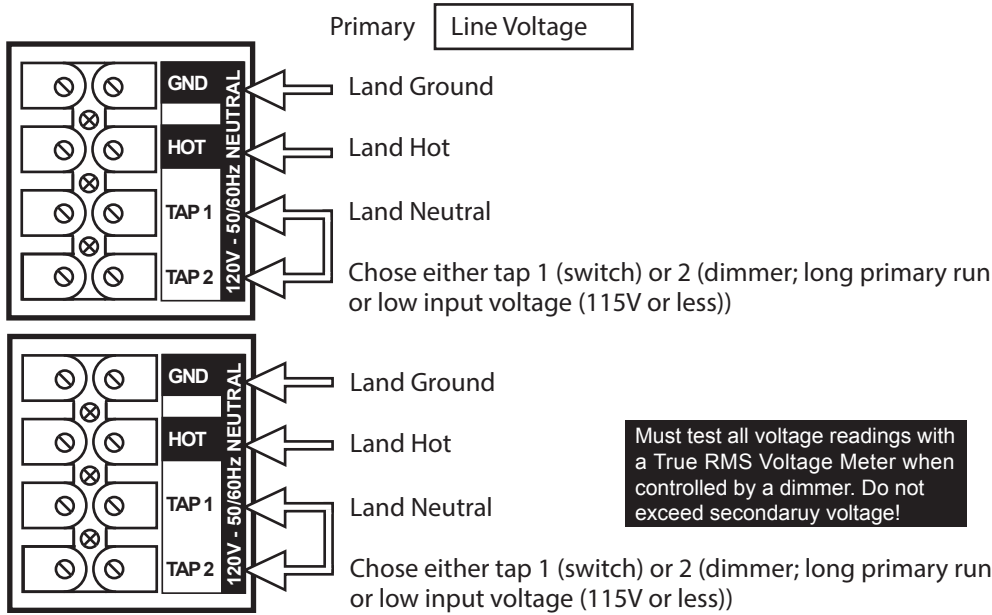
Ordering and Specification Guide

Model	Prim. V	Sec. V	No.	Amp.	Choke	Options	Options 2
1	2	3	4	5	6	7	7
1 Model	Max Lamp Load Watts ¹	PSC Efficiency	Max Energy Watts ²	Max PSC Load VA	Max Prim. Amps@120V	Max Prim. Amps@277V	
QOM - 60ST	60 W	.92	65 W	79 VA	6.6 A	.28 A	
QOM - 100ST	100 W	.92	108 W	135 VA	1.1 A	.48 A	
QOM - 150ST	150 W	.92	163 W	200 VA	1.7 A	0.7 A	
QOM - 300ST	300 W	.93	322 W	400 VA	3.4 A	1.5 A	
QOM - 500ST	500 W	.93	538 W	670 VA	5.6 A	2.4 A	
QOM - 600ST	600 W	.95	632 W	800 VA	6.7 A	2.9 A	
QOM - 750ST	750 W	.95	789 W	1000 VA	8.4 A	3.6 A	
2 Primary Voltage	120 (60Hz) 230 (50/60Hz)*		277 (60Hz)*		240 (50/60)		
3 Transformer Secondary Voltage	12 24						
4 Number of Secondary Breakers	1 to 5 One to Five Secondary Circuit Breakers can be used						
5 Secondary Breaker Amperage	Amps	Max 12V Load	Max 24V Load				
	5	60W	120W				
	10	120W	240W				
	12.5	150W	300W				
	15	180W	360W				
	20	240W	480W				
	25	300W	600W				
6 Choke	CK-S 60W-300W Choke - Suggested with Dimming CK-L 500W-750W Choke - Suggested with Dimming XX No Choke Required						
7 Options	BK Black Powder Coat Standard SS* 316L Satin Stainless Steel Housing and Door CP* Cord & Plug SP Switch Plate DP Dimmer Plate TC Time Clock						
Ordering Example							
QOM - 600ST - 120/12 - 2x25 + CK-L							

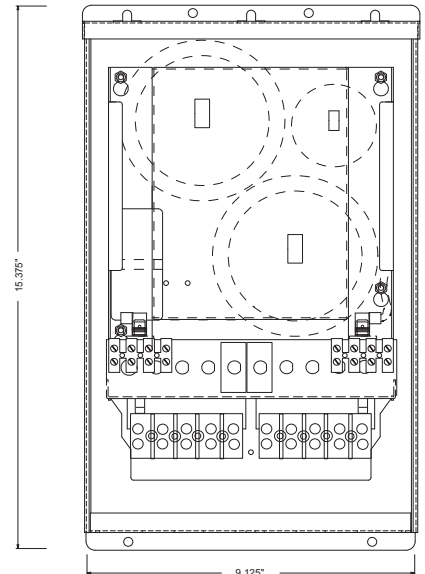
* NOT STANDARD, CALL FACTORY FOR PRICING



QOM Duo Series 60W-120W

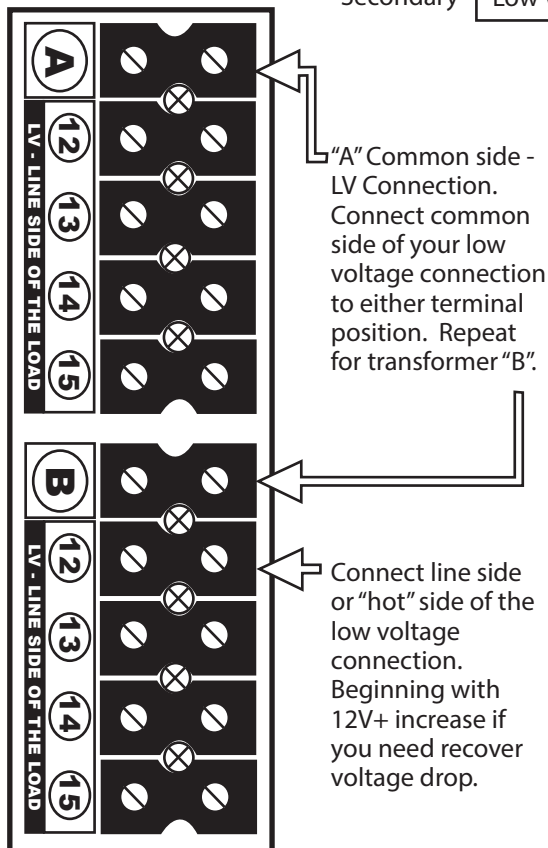


2 Control Zones

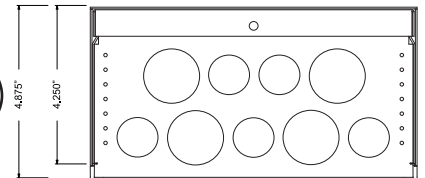


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Secondary Low Voltage



For longer runs you may need to go to a higher tap & or larger wire gauge on secondary side.



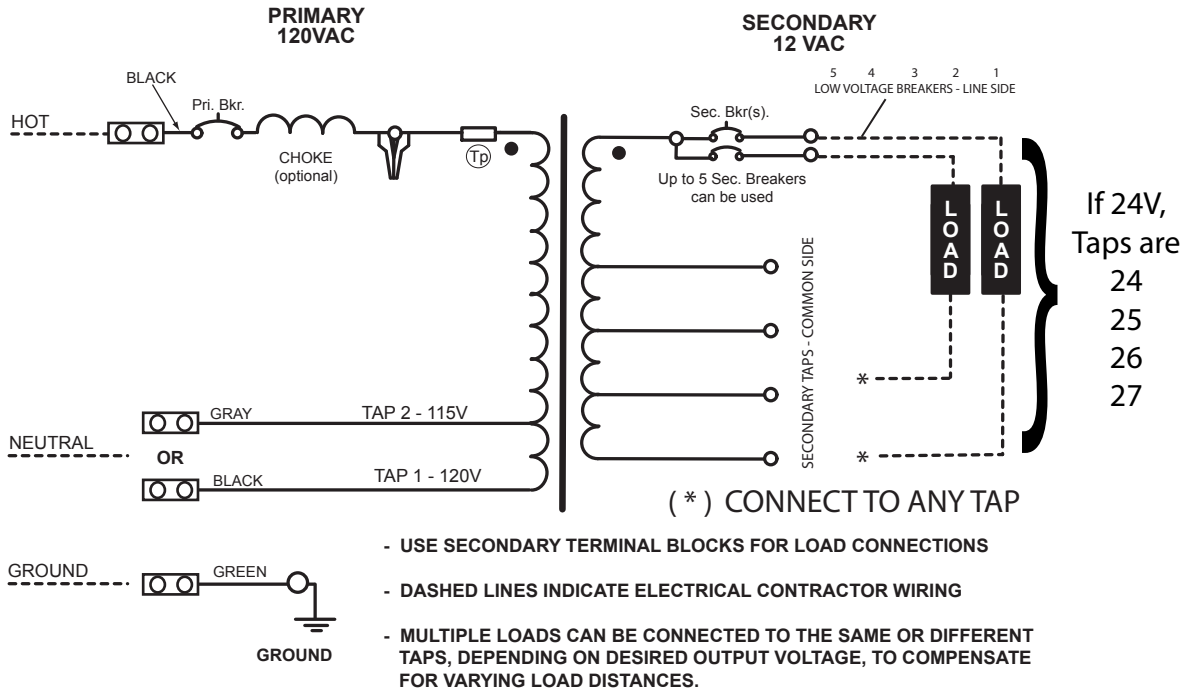
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Each terminal is UL listed to have the following capacity:	4 #12
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	2 #8

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7 Options																																
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BK	Black Powder Coat Standard			QOMD-60X2	QOMD-150X2																											
SS*	316L Satin Stainless Steel Housing and Door			QOMD-60/100	QOMD-150/300																											
CP*	Cord & Plug			QOMD-60/150	QOMD-300X2																											
				QOMD-60/300																												
				QOMD-100/X2																												
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				QOMD-100/300																												
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QOMD - 300ST - 120/12 - 1x15 + CK-S																																
XXXX - 300ST - 120/12 - 1x25 + CK-S																																

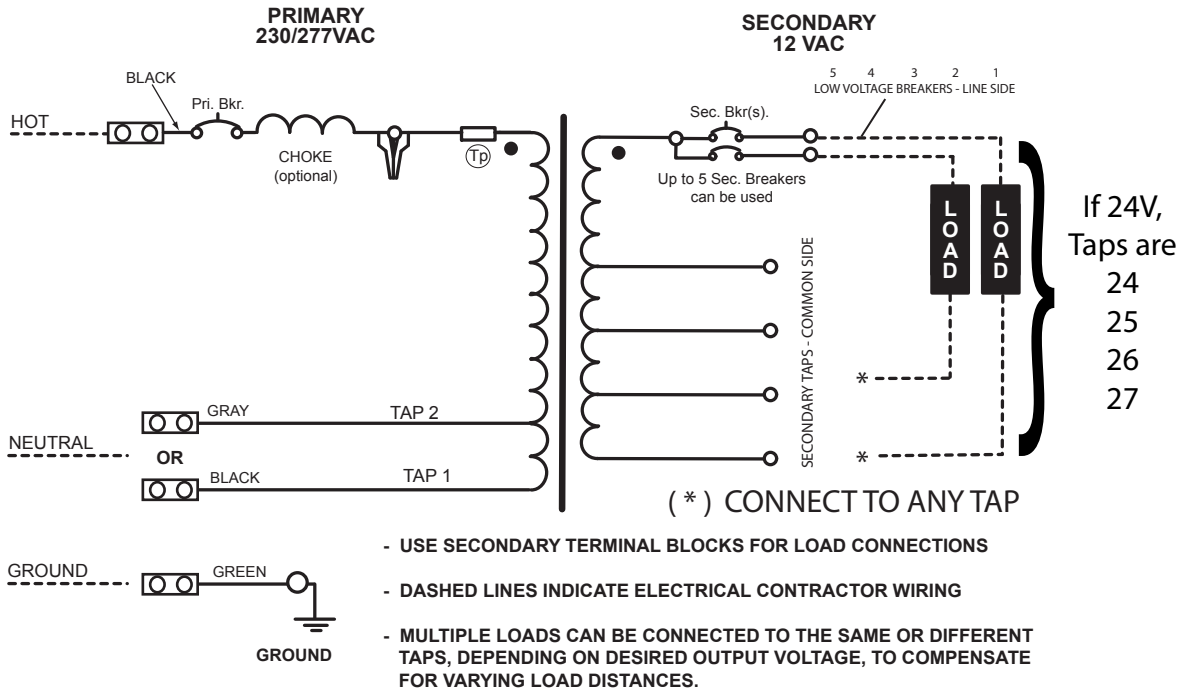
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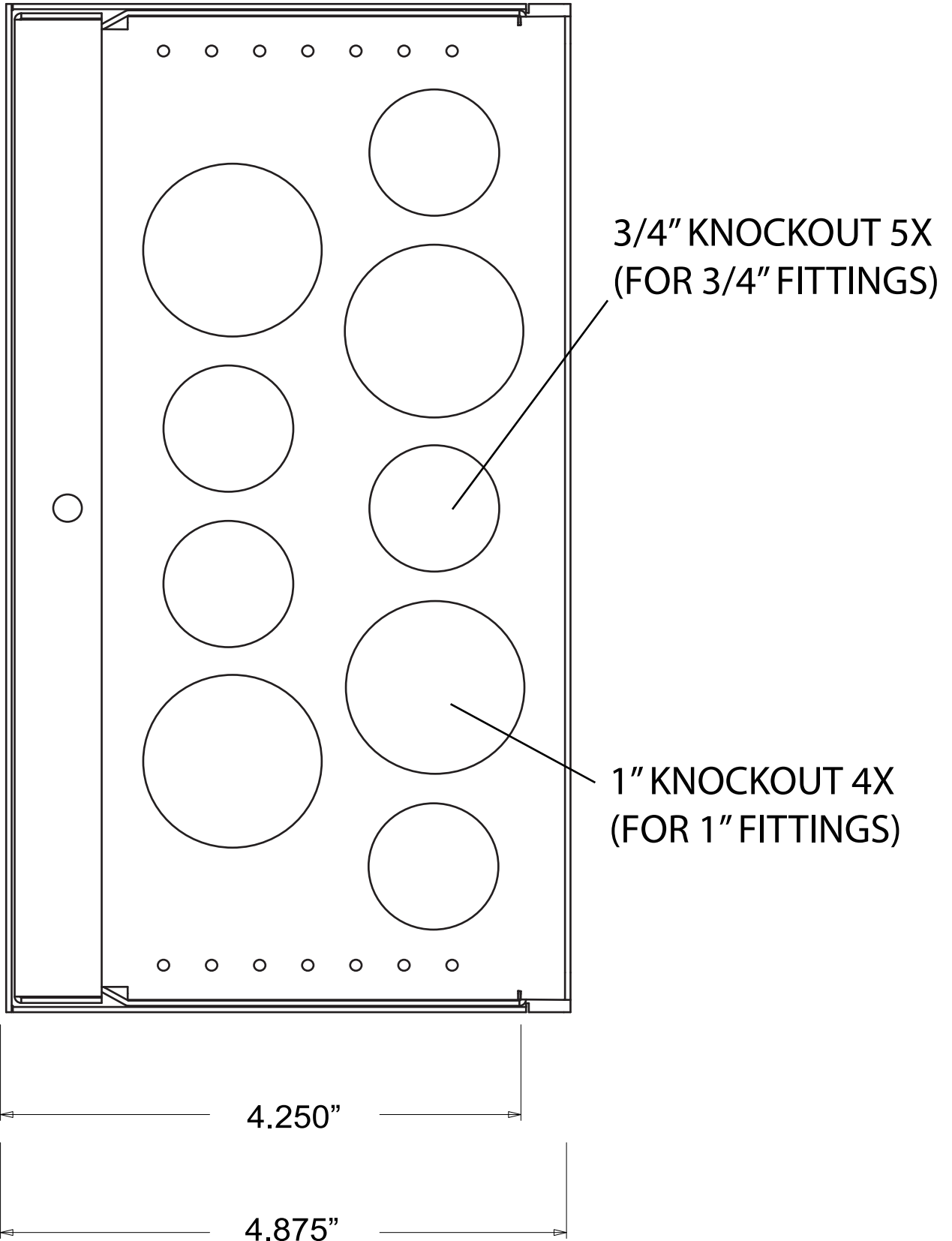
120V (60Hz) - 12/24V



230V (50Hz) - 12/24V-CEE 277V (60Hz) - 12/24V

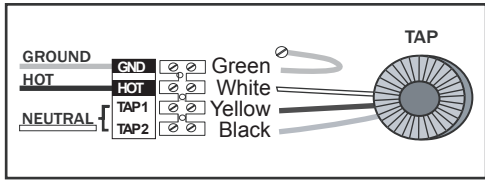


QOM Knockout Layout



Selecting the Right Tap

Get The Tap Right!

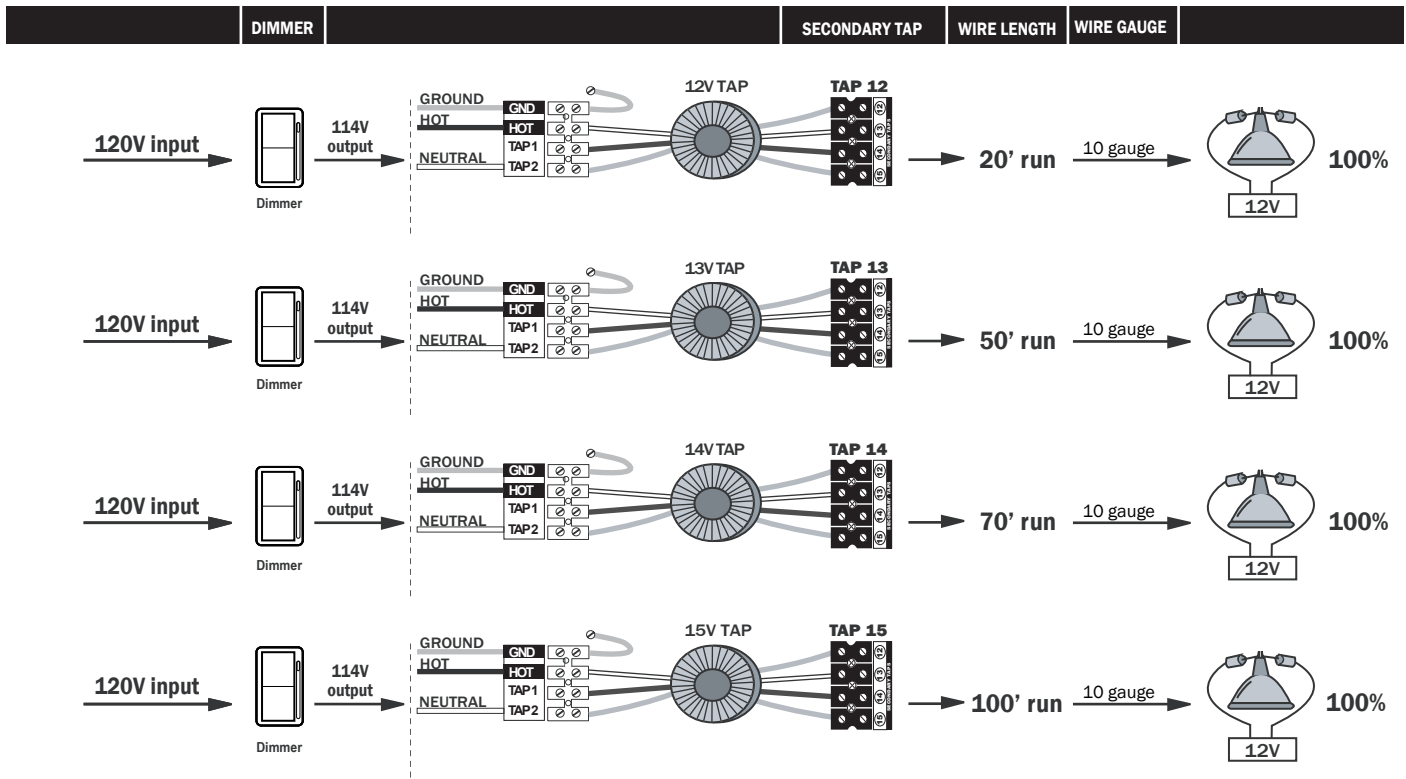


Conclusion:
 With a simple field adjustment, the contractor was able to recover his voltage drop and light output by switching from Tap 12 to Tap 15.

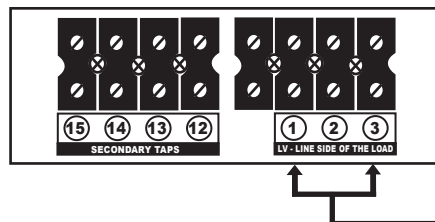
A 12V Lamp Operating at 10V = 50 % Light Output!

Rating	Excellent	Good	Poor	Bad	Very Bad
Light Output	100%	85%	69%	57%	47%
Lamp Volts	24.0V	22.8V	21.6V	20.4V	19.2V
Voltage Drop	0%	-5%	-10%	-15%	-20%
Lamp Volts	12.0V	11.4V	10.8V	10.2V	9.6V
Light Output	100%	85%	69%	57%	47%
Rating	Excellent	Good	Poor	Bad	Very Bad

The Impact of Voltage Drop on Light Output



* Use a True RMS Volt Meter when a dimmer is used.
 (RMS = Root Mean Squared)



The "line side" of the load is connected to secondary circuit breakers.
 [4 AMP - 25 AMP]



WARNINGS

FOR CONDUIT CONNECTION

“WARNING - RISK OF ELECTRIC SHOCK. Install power unit 5 feet (1.5 m) or more from the pool or spa and 10 feet (3.05 m) or more from a fountain. Where the power unit is installed within 10 feet (3.05 m) of a pool or spa, connect unit to GFCI protected branch circuit.”

FOR POWER SUPPLY CORD CONNECTION

“WARNING - RISK OF ELECTRIC SHOCK. Install power unit 5 feet (1.5 m) or more from the pool, spa, or fountain. Where the power unit is installed (a) indoors within 10 feet (3.05 m) of a pool, spa, or fountain or (b) outdoors, connect power unit to a receptacle protected by a GFCI.”

“WARNING - RISK OF FIRE. If installation requires running wire through a building structure, special wiring methods are needed. Contact a qualified electrician.

“WARNING - Outdoor Cord - connected unit shall be connected to a GFCI protected hooded flush type cover plate receptacle marked “Wet Location”.

“WARNING - Do not use extension chords.

The main Secondary Wiring is intended for shallow burial - less than 6 inches (152 mm)

For Supply connections use wire rated for at least 60C.

LISTED **5F78**

**LOW VOLTAGE LIGHTING
POWER SUPPLY CENTER**

- LANDSCAPE LIGHTING POWER UNIT
- SUITABLE FOR WET LOCATION
- SUITABLE FOR INDOOR/OUTDOOR USE
- UL 1838 & 2108 LISTED
- ISOLATION TOROIDAL TRANSFORMER
- USE DIMMERS RATED FOR MAGNETIC LOW VOLTAGE LOADS
- 50/60 CYCLE
- MADE IN THE U.S.A.

For model series:

QOM-60, QOM-100, QOM-150, QOM-300, QOM-500, QOM-600, QOM-750, QOM-2X150, QOM-2X300 and QOM-150/300, all field installed conductors, both primary and secondary, shall have insulation suitable for the highest voltage potential of the equipment.

WIRE TYPE	PRI. WIRE COLOR	BREAKER	MINIMUM AWG	12V
HOT	BLACK	5A	14	60W
NEU (TAP 1)	RED	10A	14	120W
NEU (TAP 2)	ORANGE	15A	14	180W
GROUND	GREEN	20A	12	240W
		25A	10	300W

	QOM	<input type="checkbox"/> 120VAC	<input type="checkbox"/> 230VAC	<input type="checkbox"/> 277VAC	<input type="checkbox"/> 12V	<input type="checkbox"/> 24V
	Model	Input Voltage (V)	Input Current (A)	Frequency	Nominal Output Voltage (VDC)	Max Output Wattage (W)
<input type="radio"/>	QOM-60	120 / 277	.56 / .25	50/60	12/24	60
<input type="radio"/>	QOM-60X2	120 / 277	1.12 / .49	50/60	12/24	60X2
<input type="radio"/>	QOM-60/100	120 / 277	1.48 / .64	50/60	12/24	60/100
<input type="radio"/>	QOM-60/150	120 / 277	1.93 / .84	50/60	12/24	60/150
<input type="radio"/>	QOM-60/300	120 / 277	3.28 / 1.42	50/60	12/24	60/300
<input type="radio"/>	QOM-100	120 / 277	.92 / .40	50/60	12/24	100
<input type="radio"/>	QOM-100X2	120 / 277	1.84 / .80	50/60	12/24	100X2
<input type="radio"/>	QOM-100/150	120 / 277	2.29 / .99	50/60	12/24	100/150
<input type="radio"/>	QOM-100/300	120 / 277	3.64 / 1.58	50/60	12/24	100/300
<input type="radio"/>	QOM-150	120 / 277	1.37 / .59	50/60	12/24	150
<input type="radio"/>	QOM-150X2	120 / 277	2.74 / 1.19	50/60	12/24	150X2
<input type="radio"/>	QOM-150/300	120 / 277	4.09 / 1.77	50/60	12/24	150/300
<input type="radio"/>	QOM-300	120 / 277	2.72 / 1.18	50/60	12/24	300
<input type="radio"/>	QOM-300X2	120 / 277	5.44 / 2.36	50/60	12/24	300X2
<input type="radio"/>	QOM-500	120 / 277	4.48 / 1.94	50/60	12/24	500
<input type="radio"/>	QOM-600	120 / 277	5.32 / 2.30	50/60	12/24	600
<input type="radio"/>	QOM-750	120 / 277	6.58 / 2.85	50/60	12/24	750

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.

CAUTION: USE ONLY WITH MAXIMUM OUTPUT LOAD PER ABOVE TABLE.

<ul style="list-style-type: none"> • SUITABLE FOR USE WITH SUBMERSIBLE LUMINAIRES OR SUBMERSIBLE PUMPS • SUITABLE FOR WET LOCATIONS • WALL MOUNT ONLY • FOR SUPPLY CONNECTIONS USE WIRE RATED FOR AT LEAST 60 C. 	<ul style="list-style-type: none"> • SUITABLE FOR INDOOR OR OUTDOOR USE • SUITABLE FOR MOUNTING WITHIN 1.2m (4 ft.) OF THE GROUND • ISOLATION TOROIDAL TRANSFORMER • DIMMER, IF USED, MUST BE A MAGNETIC LOW-VOLTAGE DIMMER. 	<ul style="list-style-type: none"> • 50/60 CYCLE A.C. ONLY • MADE IN THE U.S.A. • KEEP ENCLOSURE COVER CLOSED • READ INSTALLATION INSTRUCTIONS BEFORE WIRING
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LOW VOLTAGE
LUMINAIRE POWER
SUPPLY CENTER

QOM Series tested to:
UL-2108, UL-1838
CSA C22.2 NO. 250.0-08
CSA C22.2 NO. 250.7-07

Q-TRAN, INC.
MILFORD, CT U.S.A.
(203) 367-8777
WWW.Q-TRAN.COM

WARNING: RISK OF FIRE. IF INSTALLATION INVOLVES RUNNING WIRE THROUGH A BUILDING STRUCTURE, SPECIAL WIRING METHODS ARE NEEDED. CONSULT A QUALIFIED ELECTRICIAN.

To order additional lengths of wire for connection in the secondary, contact your local distributor or Q-Tran at 203-367-8777 and inquire about Q-Wire.