



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

- 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

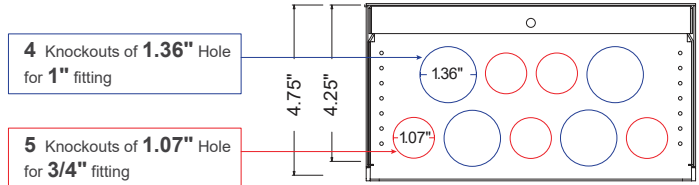
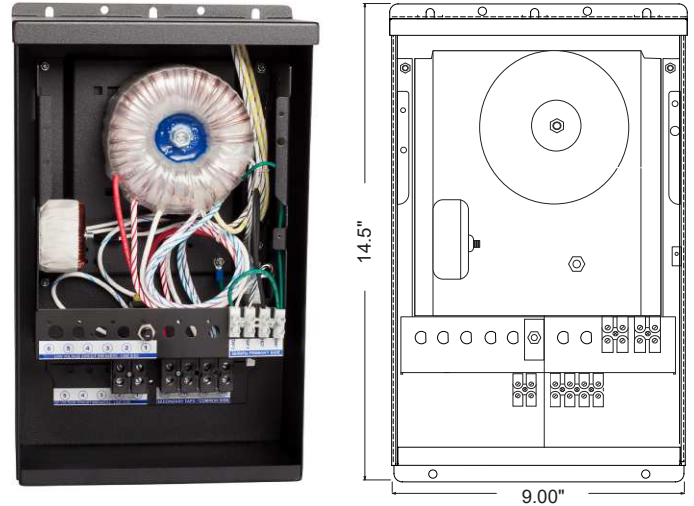
- The advantage is that loads at varying distances from the PSC can be tapped on different taps to recover voltage drop, allowing you to get the correct voltage at your load and produce between 85%-100% light output.

(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.
- No De-Rating required.
- 1-5 magnetic circuit breaker.

TOROIDAL CHOKE

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



* 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
QOMS	-	/	-	x	+	+
Option 2						
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
500ST	500W	93	538W	670VA	5.6 A	2.4 A
600ST	600W	95	632W	800VA	6.7 A	2.9 A
750ST	750W	95	789W	1000VA	8.4 A	3.6 A
2 Primary Voltage						
120(60Hz) 220 (50/60Hz)* 230 (50/60Hz)* 240 (50/60Hz)* 277(60Hz)						
3 Secondary Voltage					7 Options	
12V 24V					BK Black Powder Coat Finish - Standard	
4 Number of Breakers					SS 316 Marine Grade Stainless Steel	
1-5					CP Cord & Plug	
5 Secondary Breaker Amperage					SP Switch Plate	
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					DP Dimmer Plate	
xx: No Choke Required CK-S: 60W-300W CK-L: 500W-750W					TP Timer Plate	
Ordering Example						
QOMS-600ST - 120/12 - 2x25 + CK-L						

*Not Standard, Call Factory For options

20191231-V2

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 TOROIDALTRANSFORMER
- 50/60 CYCLE
- CSA C22.2 NO. 250.0-08 & 250.7-07
- MADE IN THE U.S.A.

INDOOR LANDSCAPE SP US WET LISTED 239924 E247732

PROJECT NAME	DATE	COMPANY	TYPE	NOTE

QOM Power Supply Installation Instructions

Must be installed by licensed electrician.



E247732

 **US LISTED**
LANDSCAPE POWER
SUPPLY 16HW

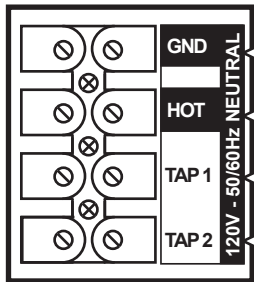

C US
239924

ENLIGHTENED THINKING®

QOM Single Series 60W-750W

Primary Line Voltage

1 Control Zone



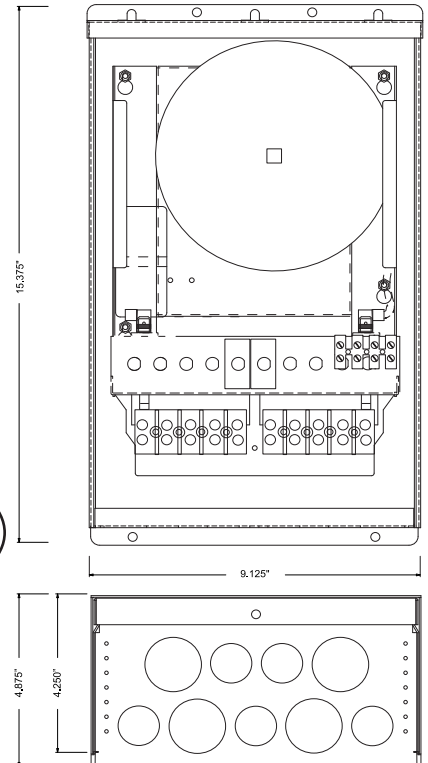
Land Ground

Land Hot

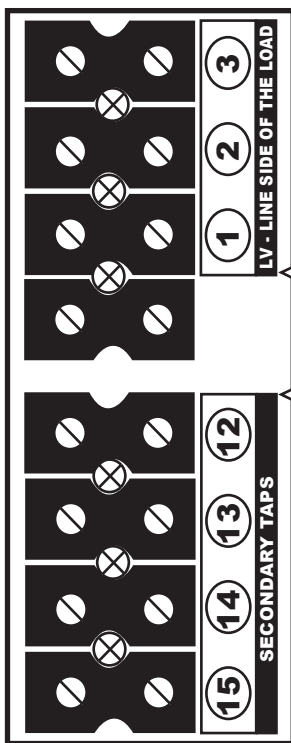
Land Neutral

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

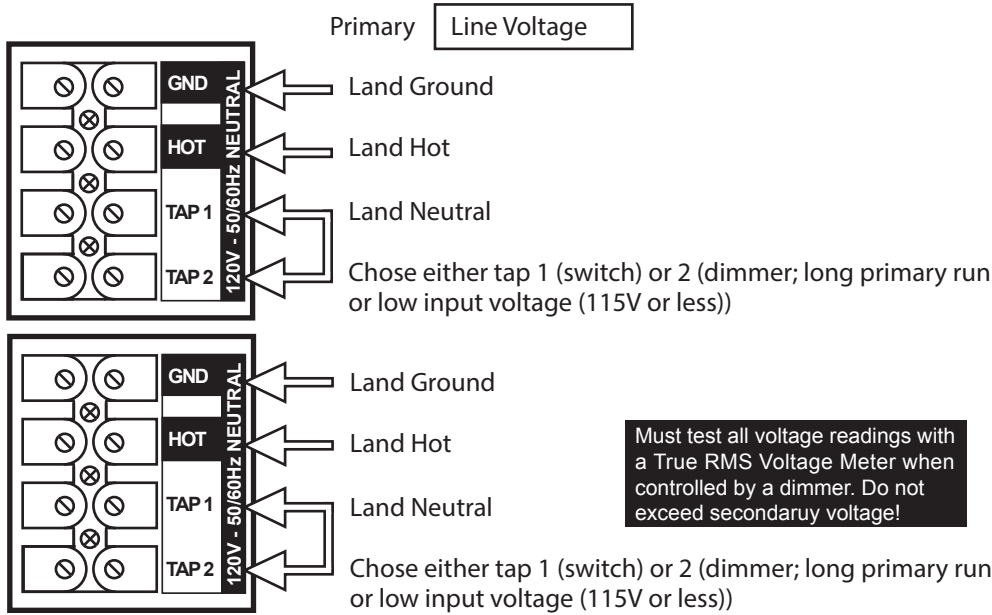
Ordering and Specification Guide

Model	Prim. V	Sec. V	No.	Amp.	Choke	Options	Options 2
<input type="text"/>	-	<input type="text"/>	<input type="text"/>	x	<input type="text"/>	+	<input type="text"/>
1 Model	2	3	4	5	6	7	7
QOM - 60ST	60 W	.92	65 W	79 VA	.66 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							

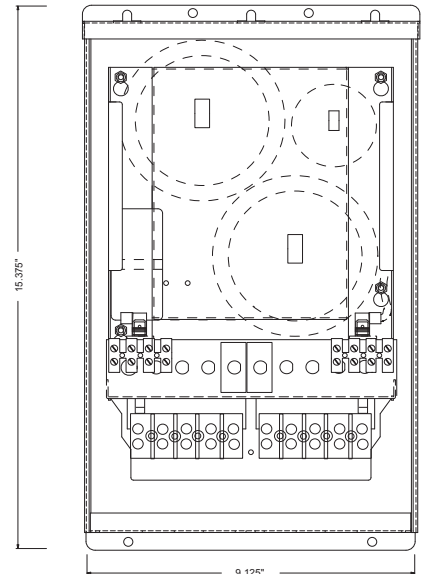
* NOT STANDARD, CALL FACTORY FOR PRICING



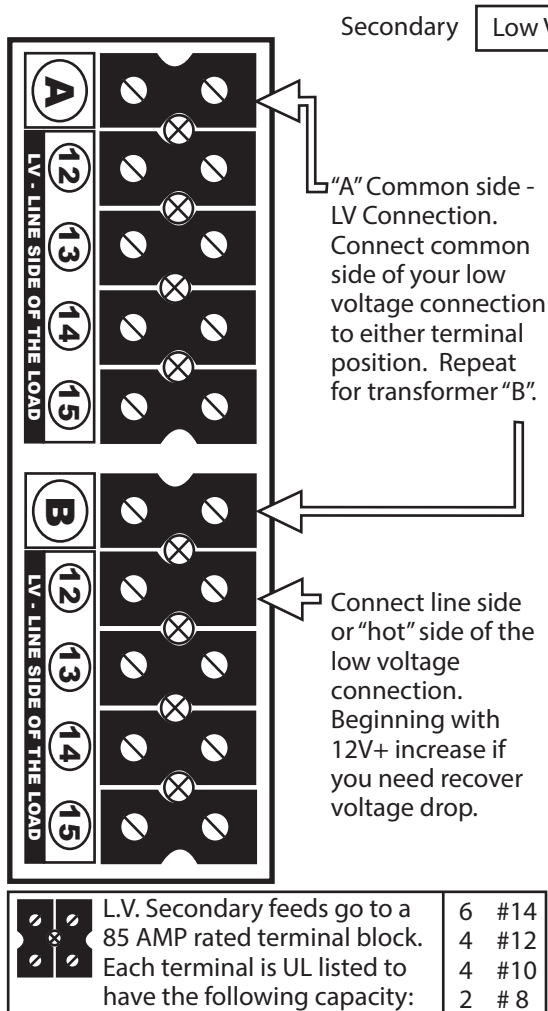
QOM Duo Series 60W-120W



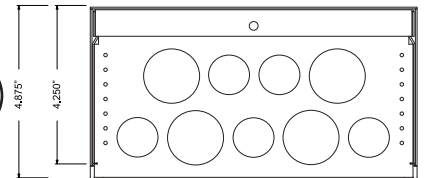
2 Control Zones



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



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



Ordering and Specification Guide

Model	Prim. V	Sec. V	No.	Amp.	Choke	Options	Options 2
	-	/	-	x	+	+	+
	-	/	-	x	+	+	+
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	
QOMD-60	60 W	.92	65 W	79 VA	.66 A	.28 A	
QOMD-100	100 W	.92	108 W	135 VA	1.1 A	.48 A	
QOMD-150	150 W	.92	163 W	200 VA	1.7 A	0.7 A	
QOMD-300	300 W	.93	322 W	400 VA	3.4 A	1.5 A	
2 Primary Voltage							
120 (60Hz)	230 (50/60Hz)*	277 (60Hz)*					
3 Transformer Secondary Voltage							
12	24						
4 Number of Secondary Breakers							
1	One Secondary Circuit Breaker 1 per toroid						
5 Secondary Breaker Amperage							
Amps	Max 12V Load	Max 24V Load					
5	60W	120W					
10	120W	240W					
12.5	150W	180W					
15	180W	360W					
20	240W	480W					
25	300W	600W					
6 Choke							
CK-S	60-300W Choke						
7 Options	QOMD Model Combinations						
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
							QOMD-100/150
							QOMD-100/300
Ordering Example							
QOMD - 300ST - 120/12 - 1x15 + CK-S							
XXXX - 300ST - 120/12 - 1x25 + CK-S							

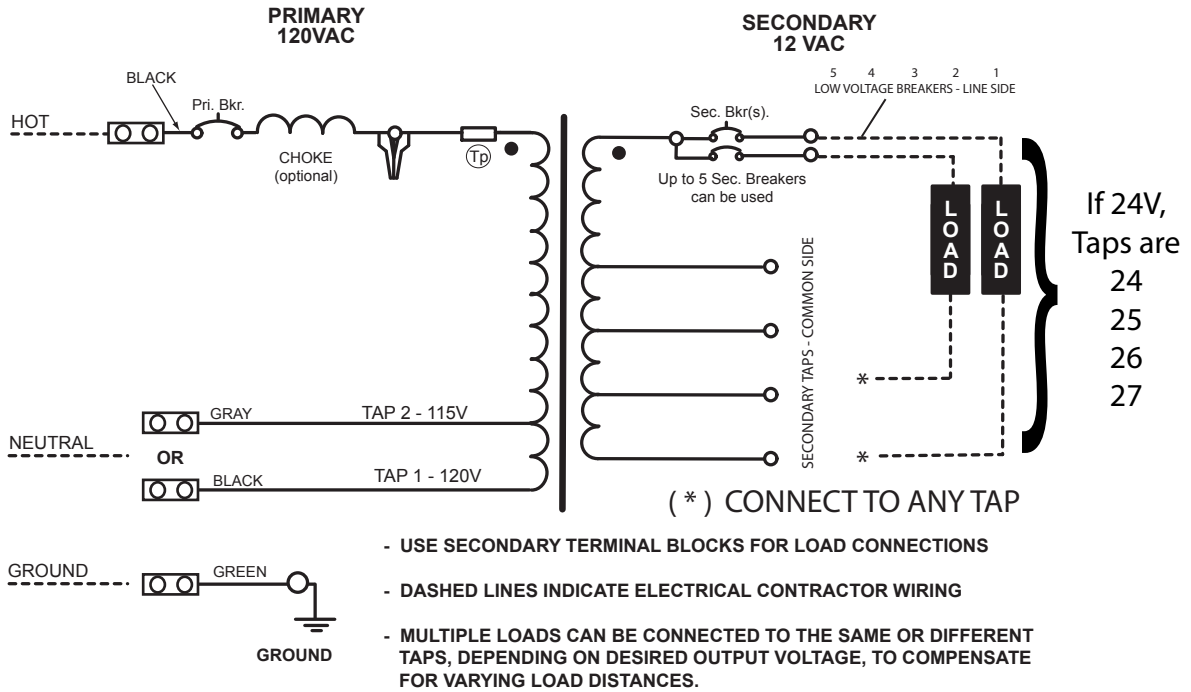
* NOT STANDARD, CALL FACTORY FOR PRICING



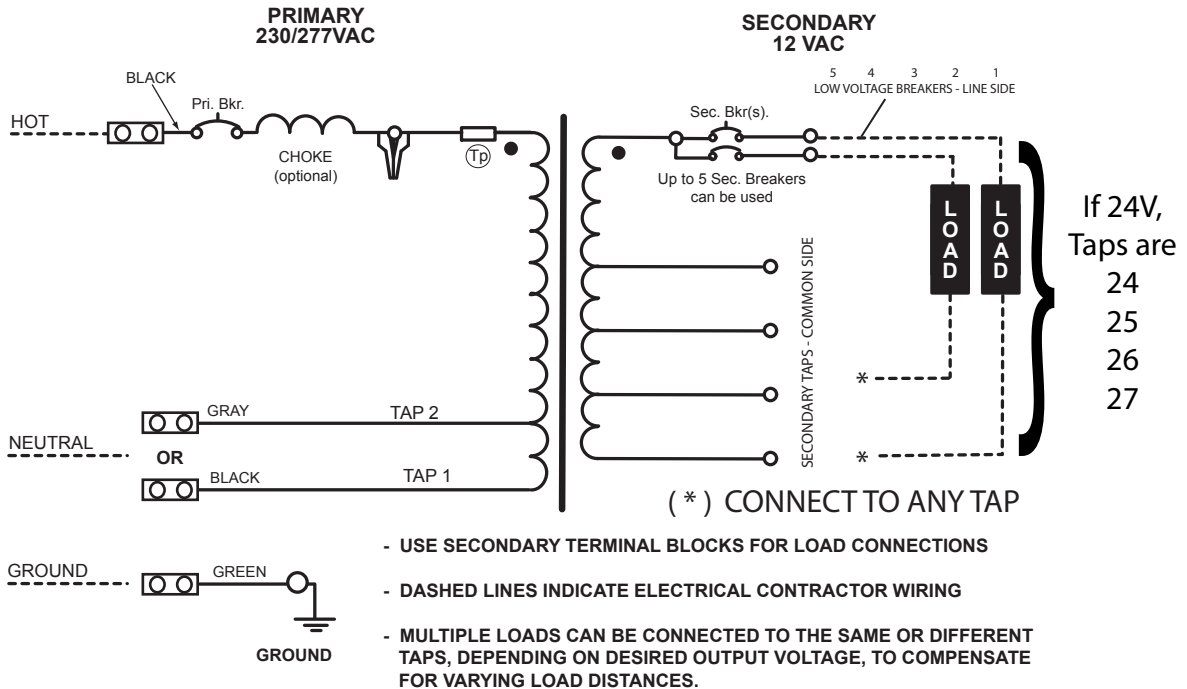
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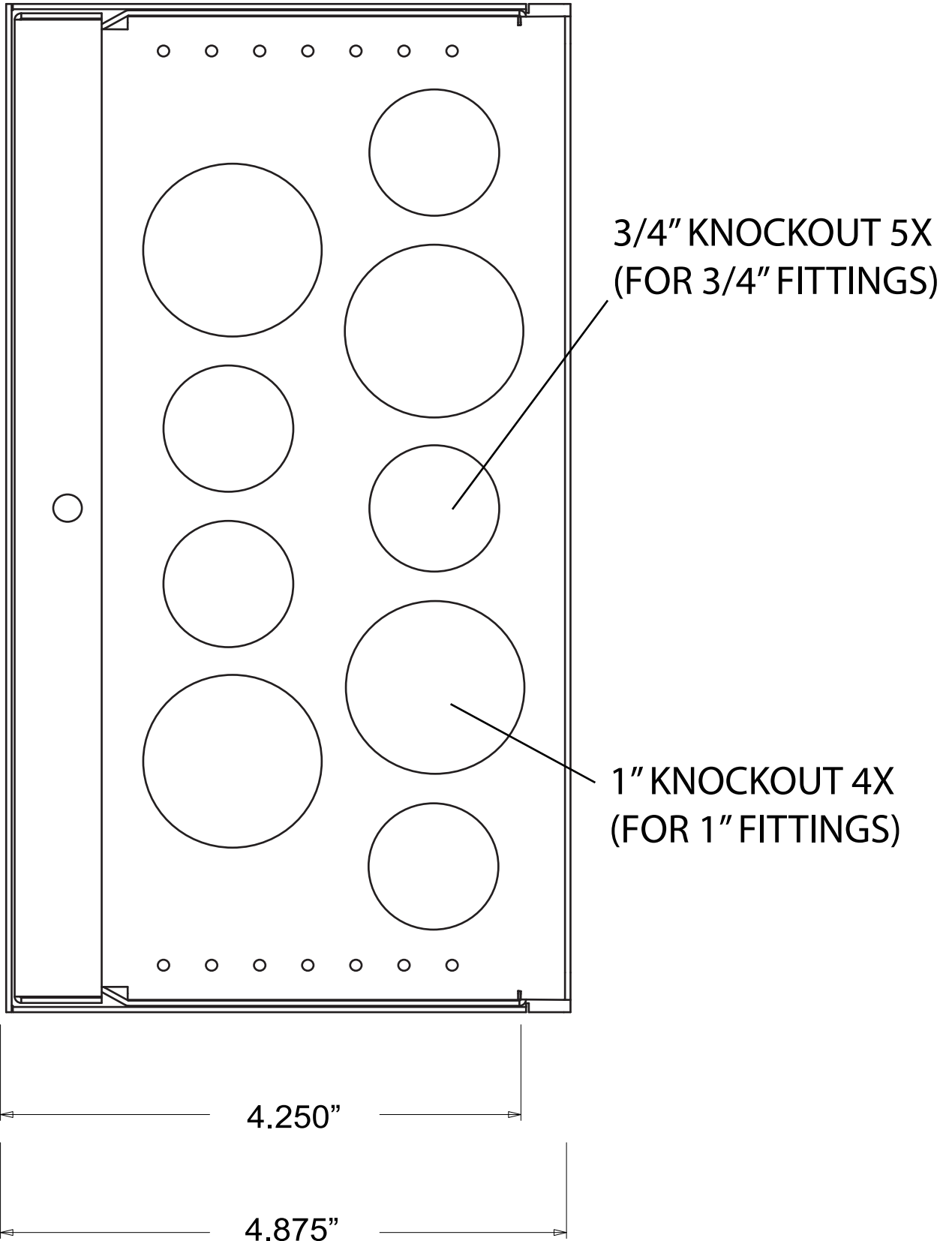
120V (60Hz) - 12/24V



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

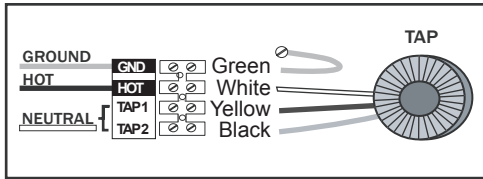


QOM Knockout Layout



Selecting the Right Tap

Get The Tap Right!

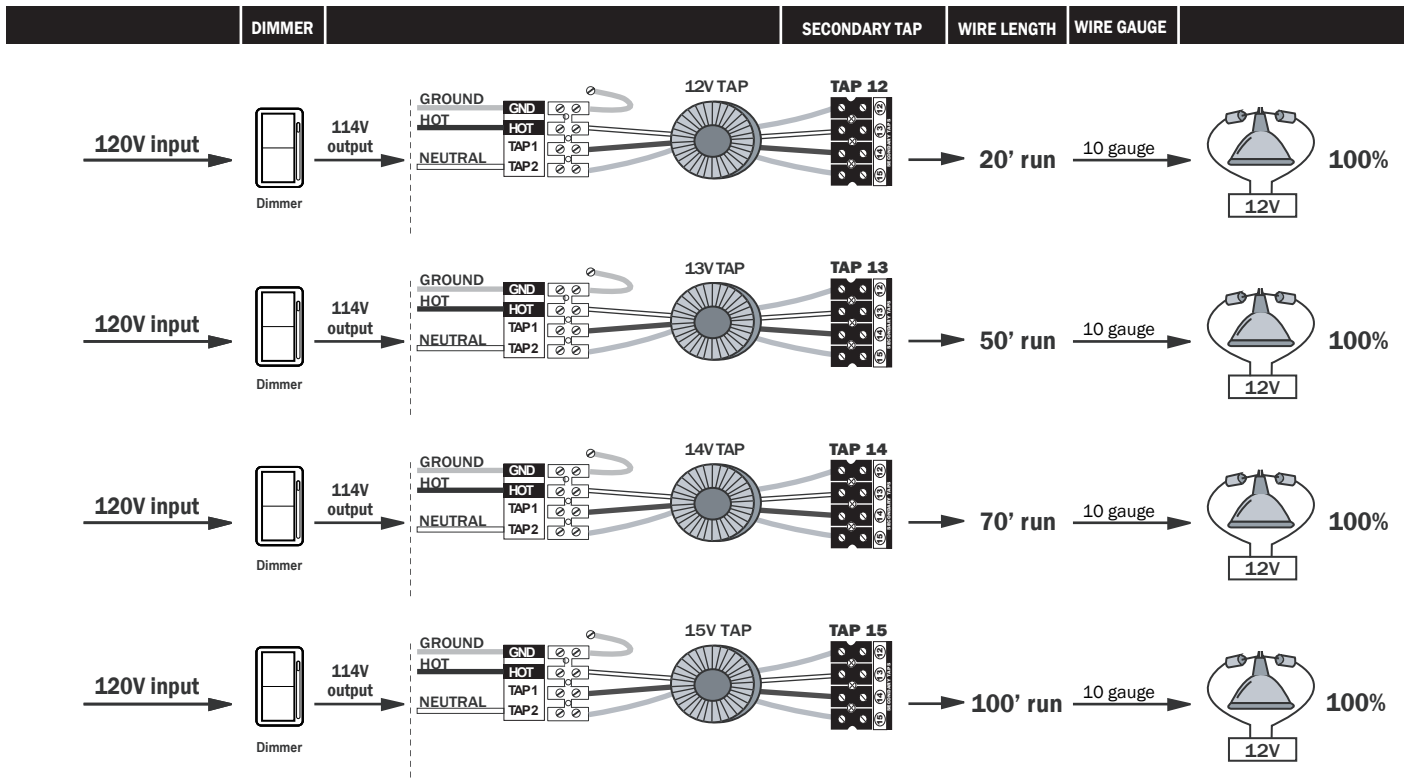


Conclusion:
 With a simple field adjustment, the contractor was able to recover his voltage drop and light output by switching from Tap 12 to Tap 15.

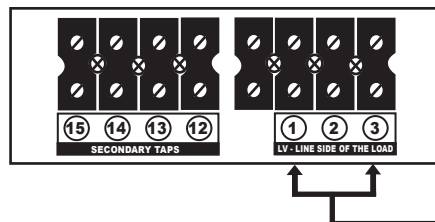
A 12V Lamp Operating at 10V = 50 % Light Output!

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

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.