

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.

Part Number Builder



* Not standard, call factory for pricing

Coat Finish

Technical Information

ize							² Secondary Breaker Amperage				³ Color	
0.	Max Load	PSC	Max PSC Rating	Max PSC Rating	Max Prim Amps @	Max Prim Amps @	Amps	Max 12V Load	Max 24V Load	BK	Black Powder Coa (Standard) 316 Marine Grade	
Size	(Watts)	Efficiency	(Watts)	(VA)	1200	277V	5	60W	120W	00	Stainless Steel	
60ST	60W	92%	66	79	0.66 A	0.28 A	10	120W	240W			
100ST	100W	92%	108	135	1.1 A	0.48 A	10	12011	21011	*Opt	ions	
4500T	45014/	0.00/	100	000	474	0.70.4	12.5	150W	300W	CP	Cord & Plug	
15051	15000	92%	163	200	1.7 A	0.70 A	15	180W	360W	SP	Switch Plate	
300ST	300W	93%	322	400	3.4 A	1.5 A	20	240\\/	49014/	TP	Timer Plate	
500ST	500W/	03%	538	670	564	244	20	24077	40000	••	Timor Flato	
50051	30077	30 /6	550	0/0	J.0 A	2.4 /	25	300W	600W	Chol	ke	
600ST	600W	95%	632	800	6.7 A	2.9 A				CK S	60W/ 200W/	
750ST	750W	95%	789	1000	8.4 A	3.6 A				CK-S	500W-300W	











Housing

- 18-gauge welded steel enclosure: 9.0"W X 14.5"L X 4.75"D
- Knockouts: 9

Multi-Volt & Taps

Tap Options (in order from TAP1 to TAP5): 12V: 12, 13, 14, 15V 24V: 24, 25, 26, 27V

- Loads may be connected to one (1) of the primary taps up to the full watt rating of the PSC.
- 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)
- Secondary Circuit Protection: 1-5 magnetic circuit breakers
- No derating required

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.

- 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.



QOMS/QOMD



QOMS 60W-750W



QOMS/QOMD



QOMD 60W-300W





Wiring Diagram

120V (60Hz) - 12/24V



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





Selecting the Right Tap



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.



The Impact of Voltage Drop on Light Output



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





Warnings

WARNING

FOR CONDUIT CONNECTION

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 **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.

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

OUTDOOR CORD - connected unit shall be connected to a GFCI protected hooded flush type cover plate recepticle marked "Wet Location.

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.

* 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.



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
НОТ	BLACK	5A	14	60W
NEU (TAP 1)	BED	10A	14	120W
		15A	14	180W
NEU (TAP 2)	ORANGE	20A	12	240W
GROUND	GREEN	25A	10	300W

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

applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.

- 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. CLASS:

LOW VOLTAGE 120V UMINAIRE POWER 3425 01 SUPPLY CENTER CLASS:

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

120V/277V

- SUITABLE FOR INDOOR OR OUTDOOR USE
 SUITABLE FOR MOUNTING WITHIN 1.2m (4 ft.)
 OF THE GROUND
 ISOLATION TORDIDAL TRANSFORMER
 DIMMER, IF USED, MUST BE A MAGNETIC
 LOW-VOLTAGE DIMMER.
 - 50/60 CYCLE A.C. ONLY
 MADE IN THE U.S.A.
 KEEP ENCLOSURE COVER CLOSED
 - READ INSTALLATION INSTRUCTIONS BEFORE WIRING
 - CE
 - WARNING: RISK OF FIRE. IF INSTALLATION INVOLVES RUNNING WIRE THROUGH A BUILDING STRUCTURE. SPECIAL WIRING METHODS ARE NEEDED. CONSULT A QUALIFIED ELECTRICIAN