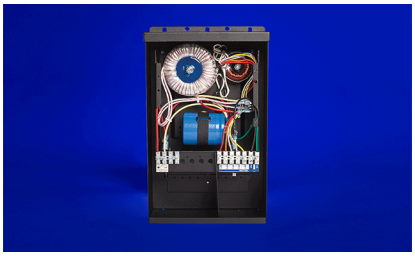
QOM-DC+CAP

12V or 24V DC Power Supply - 60W–200W



- Designed specifically for LED lighting applications
- Includes a robust rectifier for converting AC to DC power
- Features a large filter capacitor to remove voltage ripple and ensure no LED flicker
- Offers five tap selections to accommodate long cable runs and voltage drop
- Follows Class 2 power limits, with 60W circuits for 12V outputs and 96W circuits for 24V outputs
- Capable of supporting two 60W 12V circuits or one 96W 24V circuit
- Dimming levels to 0.1% (Dim to Dark)

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE	5 NUMBER OF BREAKERS	6 BREAKER AMPERAGE	7 CHOKE	8 COLOR	9 OPTIONS
QOM						CK-S		

Sample Part Number: **QOM-60DC+CAP-120-24VDC-1-2.5-CK-S-SS-CP**

1 PRODUCT

QOM

2 WATTAGE

60DC+CAP
100DC+CAP
200DC+CAP
60DC+CAP
120DC+CAP

3 PRIMARY VOLTAGE

120	60Hz
220	50/60Hz
230	50/60Hz
240	50/60Hz
277	60Hz

220, 230, 240 not standard, call factory for pricing

120	60Hz
220	50/60Hz
230	50/60Hz
240	50/60Hz
277	60Hz

220, 230, 240 not standard, call factory for pricing

4 SECONDARY VOLTAGE

24VDC
12VDC

5 NUMBER OF BREAKERS

1
2

6 BREAKER AMPERAGE

2.5
4
5

7 CHOKE

CK-S

8 COLOR

BK	Black Powder Coat Finish (Standard)
SS	316 Marine Grade Stainless Steel

9 OPTIONS

CP	Cord & Plug
N/A	

COMPATIBLE LEDS

STATIC WHITE

SW24/1.5-4.0 SW-DR24/1.5-4.0 SHLD-SW24/1.5-4.0 SW-SCOB24/1.5-4.0	✓
SW24/5.0, SW-HE, SW-HE+ SW-DR24/5.0, SW-HE-DR SHLD-SW24/5.0, SHLD-SW-HE SW-SCOB24/5.0	✓
SW-SD24/1.0-4.0	✓
SW-SD24/6.0	✓
SW-IA	
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	

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QOM-DC+CAP

12V or 24V DC Power Supply - 60W–200W

PRODUCT INFORMATION

- Suitable for dry, damp, and wet locations
- Suitable for use with submersible luminaire
- Use dimmers rated for magnetic low voltage load with neutral wire
- 10 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 3426-04 and Class 3426-94
  - 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

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QOM-DC+CAP

12V or 24V DC Power Supply - 60W–200W

VOLTAGE DROP CHART

Distances shown reflect a 5% voltage drop (95% of rated voltage delivered) — the maximum recommended run.

24V SYSTEM

No Dimming - use primary tap #1

SECONDARY TAP 2, 24V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
15	2293	1441	906	571	359	226
30	1146	721	453	285	179	113
45	764	480	302	190	120	75
60	573	360	227	143	90	56
80	430	270	170	107	67	42
96	358	225	142	89	56	35

SECONDARY TAP 3, 26V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
15	4841	3043	1913	1204	757	476
30	2420	1522	957	602	378	238
45	1614	1014	638	401	252	159
60	1210	761	478	301	189	119
80	908	571	359	226	142	89
96	756	475	299	188	118	74

SECONDARY TAP 4, 28V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
15	7389	4645	2920	1838	1155	727
30	3694	2322	1460	919	578	363
45	2463	1548	973	613	385	242
60	1847	1161	730	460	289	182
80	1385	871	548	345	217	136
96	1154	726	456	287	181	114

With Dimming - use primary tap #2

SECONDARY TAP 2, 24V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
15	2293	1441	906	571	359	226
30	1146	721	453	285	179	113
45	764	480	302	190	120	75
60	573	360	227	143	90	56
80	430	270	170	107	67	42
96	358	225	142	89	56	35

SECONDARY TAP 3, 26V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
15	4841	3043	1913	1204	757	476
30	2420	1522	957	602	378	238
45	1614	1014	638	401	252	159
60	1210	761	478	301	189	119
80	908	571	359	226	142	89
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SECONDARY TAP 4, 28V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
15	7389	4645	2920	1838	1155	727
30	3694	2322	1460	919	578	363
45	2463	1548	973	613	385	242
60	1847	1161	730	460	289	182
80	1385	871	548	345	217	136
96	1154	726	456	287	181	114

12V SYSTEM

No Dimming - use primary tap #1

SECONDARY TAP 2, 12V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
10	860	541	340	214	134	85
20	430	270	170	107	67	42
30	287	180	113	71	45	28
40	215	135	85	53	34	21
50	172	108	68	43	27	17
60	143	90	57	36	22	14
70	123	77	49	31	19	12
80	107	68	42	27	17	11
90	96	60	38	24	15	9
100	86	54	34	21	13	8

SECONDARY TAP 3, 13V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
10	1815	1141	717	452	284	179
20	908	571	359	226	142	89
30	605	380	239	151	95	60
40	454	285	179	113	71	45
50	363	228	143	90	57	36
60	303	190	120	75	47	30
70	259	163	102	65	41	26
80	227	143	90	56	35	22
90	202	127	80	50	32	20
100	182	114	72	45	28	18

SECONDARY TAP 4, 14V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
10	2771	1742	1095	689	433	273
20	1385	871	548	345	217	136
30	924	581	365	230	144	91
40	693	435	274	172	108	68
50	554	348	219	138	87	55
60	462	290	183	115	72	45
70	396	249	156	98	62	39
80	346	218	137	86	54	34
90	308	194	122	77	48	30
100	277	174	110	69	43	27

With Dimming - use primary tap #2

SECONDARY TAP 2, 12V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
10	860	541	340	214	134	85
20	430	270	170	107	67	42
30	287	180	113	71	45	28
40	215	135	85	53	34	21
50	172	108	68	43	27	17
60	143	90	57	36	22	14
70	123	77	49	31	19	12
80	107	68	42	27	17	11
90	96	60	38	24	15	9
100	86	54	34	21	13	8

SECONDARY TAP 3, 13V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
10	1815	1141	717	452	284	179
20	908	571	359	226	142	89
30	605	380	239	151	95	60
40	454	285	179	113	71	45
50	363	228	143	90	57	36
60	303	190	120	75	47	30
70	259	163	102	65	41	26
80	227	143	90	56	35	22
90	202	127	80	50	32	20
100	182	114	72	45	28	18

SECONDARY TAP 4, 14V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
10	2771	1742	1095	689	433	273
20	1385	871	548	345	217	136
30	924	581	365	230	144	91
40	693	435	274	172	108	68
50	554	348	219	138	87	55
60	462	290	183	115	72	45
70	396	249	156	98	62	39
80	346	218	137	86	54	34
90	308	194	122	77	48	30
100	277	174	110	69	43	27

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QOM-DC+CAP

12V or 24V DC Power Supply - 60W–200W

Distances shown reflect a 5% voltage drop (95% of rated voltage delivered) — the maximum recommended run.

24V SYSTEM

No Dimming - use primary tap #1

SECONDARY TAP 5, 30V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
15	9936	6246	3927	2472	1554	977
30	4968	3123	1963	1236	777	489
45	3312	2082	1309	824	518	326
60	2484	1562	982	618	388	244
80	1863	1171	736	464	291	183
96	1553	976	614	386	243	153

With Dimming - use primary tap #2

SECONDARY TAP 5, 30V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
15	9936	6246	3927	2472	1554	977
30	4968	3123	1963	1236	777	489
45	3312	2082	1309	824	518	326
60	2484	1562	982	618	388	244
80	1863	1171	736	464	291	183
96	1553	976	614	386	243	153

12V SYSTEM

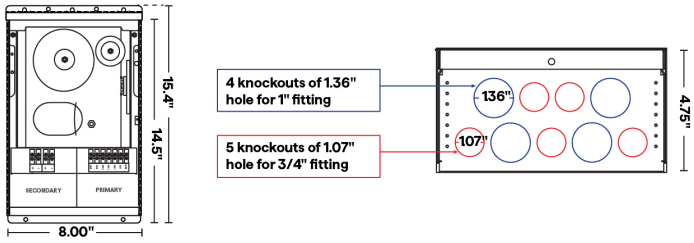
No Dimming - use primary tap #1

SECONDARY TAP 5, 15V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
10	3726	2342	1473	927	583	366
20	1863	1171	736	464	291	183
30	1242	781	491	309	194	122
40	932	586	368	232	146	92
50	745	468	295	185	117	73
60	621	390	245	155	97	61
70	532	335	210	132	83	52
80	466	293	184	116	73	46
90	414	260	164	103	65	41
100	373	234	147	93	58	37

With Dimming - use primary tap #2

SECONDARY TAP 5, 15V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
10	3726	2342	1473	927	583	366
20	1863	1171	736	464	291	183
30	1242	781	491	309	194	122
40	932	586	368	232	146	92
50	745	468	295	185	117	73
60	621	390	245	155	97	61
70	532	335	210	132	83	52
80	466	293	184	116	73	46
90	414	260	164	103	65	41
100	373	234	147	93	58	37

1 PRODUCT - DIMENSIONS



2 TECHNICAL INFORMATION

Wattage	Max Load (Watts)	Fixture Load Volts	Max Prim Amps @ 120V	Max Prim Amps @ 277V
60DC+CAP	60W	24VDC	0.9 A	0.4 A
100DC+CAP	100W	24VDC	1.3 A	0.5 A
200DC+CAP	200W	24VDC	2.4 A	1.0 A
60DC+CAP	60W	12VDC	0.9 A	0.4 A
120DC+CAP	120W	12VDC	1.4 A	0.6 A

Secondary Breaker Amperage

Amps	Max 12V Load	Max 24V Load	Wire Color
2.5	30W	60W	Red
4	48W	96W	Red
5	60W	120W	Red

HOUSING

- 18 gauge welded steel enclosure: 14.5"L x 8.00"W x 4.75"D
- Door: 15.375"L x 9.125"W
- Knockouts: 9
- Built-in support bracket incorporated to secure housing for surface mounting

MULTI-VOLT & TAPS

- Primary Taps: All units come standard with primary circuit protection
- Five (5) primary taps provide (in order from TAP1 to TAP5):
  - 12V: 11, 12, 13, 14, 15
  - 24V: 22, 24, 26, 28, 30
- 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

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QOM-DC+CAP

12V or 24V DC Power Supply - 60W–200W

the correct voltage at your load and produce between 85%-100% light output. (See QTL Voltage drop Calculator)
- Secondary Circuit Protection: 1-2 magnetic circuit breakers.

TOROIDAL CHOKE

- QTL'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.

8 COLOR



Black Powder Coat Finish (Standard)
316 Marine Grade Stainless Steel

COMPATIBLE WIRING ACCESSORIES



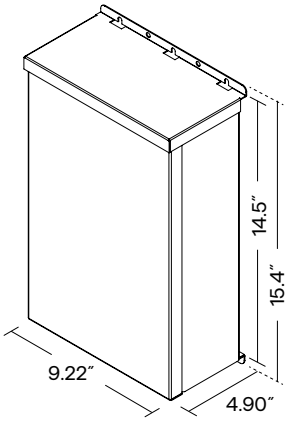
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

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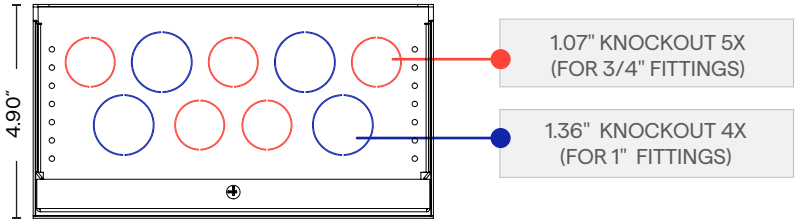
QOM-DC+CAP

Installation Instructions

Housing

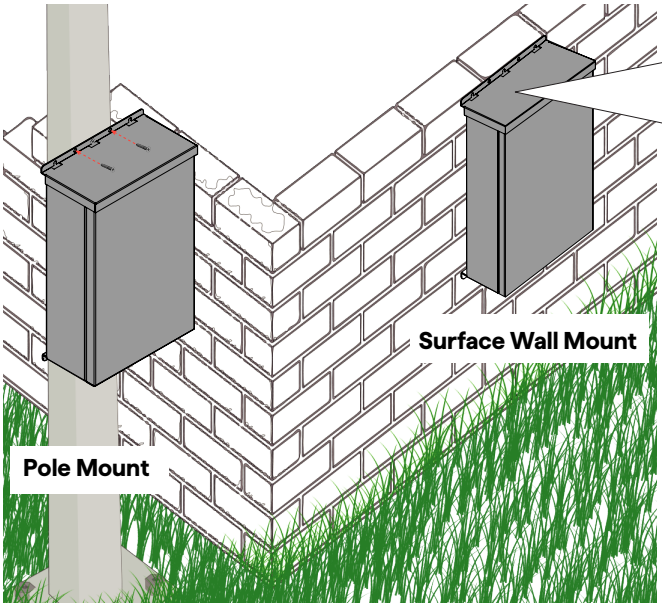


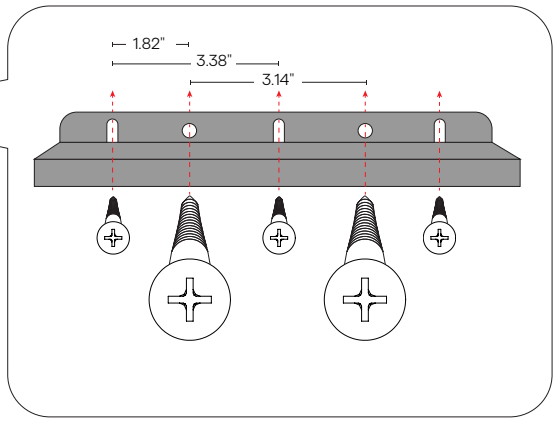
ISOMETRIC VIEW

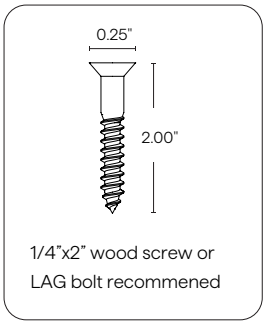


BOTTOM VIEW

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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QOM-DC+CAP

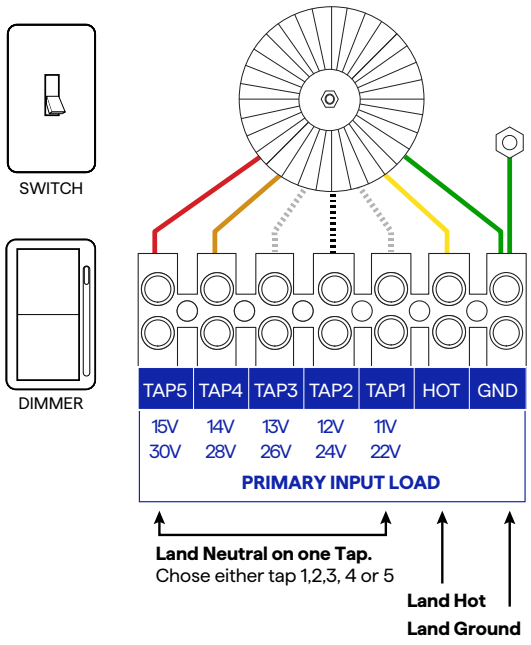
Installation Instructions

Connect Primary

Line Voltage

- Input voltage is fixed and can only be changed at the factory. Input voltage is indicated on side of the housing.

NOTE: Primary Input - connect the AC Input hot into block labeled Hot. Connect the neutral wire into Tap 1 - Tap 5 depending on desired output Voltage. Must test all voltage readings with a True RMS Voltage Meter.



Connect Secondary

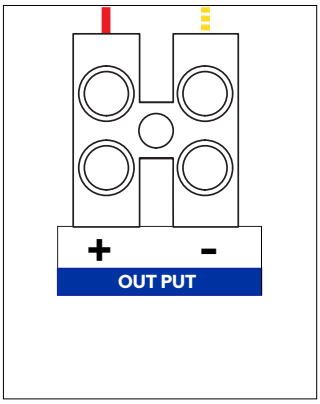
Low Voltage

- Secondary Circuit Breakers
- Secondary Common
- DO NOT EXCEED TOTAL AMPS OF SECONDARY CIRCUIT BREAKERS
- Output voltage is wired as ordered (12 or 24 volts) but can be changed by a licensed electrician.

Secondary Breaker Amperage

Amps	Max 12V Load	Max 24V Load	Wire Color
2.5	30W	60W	Red
4	48W	96W	Red
5	60W	120W	Red

NOTE: Wires may be solid or striped



RED = Positive (**+**)

YELLOW / WHITE = Negative (**-**)

Choke

- Also known as a debuzzing coil; reduces noise and in-rush current.
- Standard on all units except the 50W and 100W.
- The large units have 2 chokes.

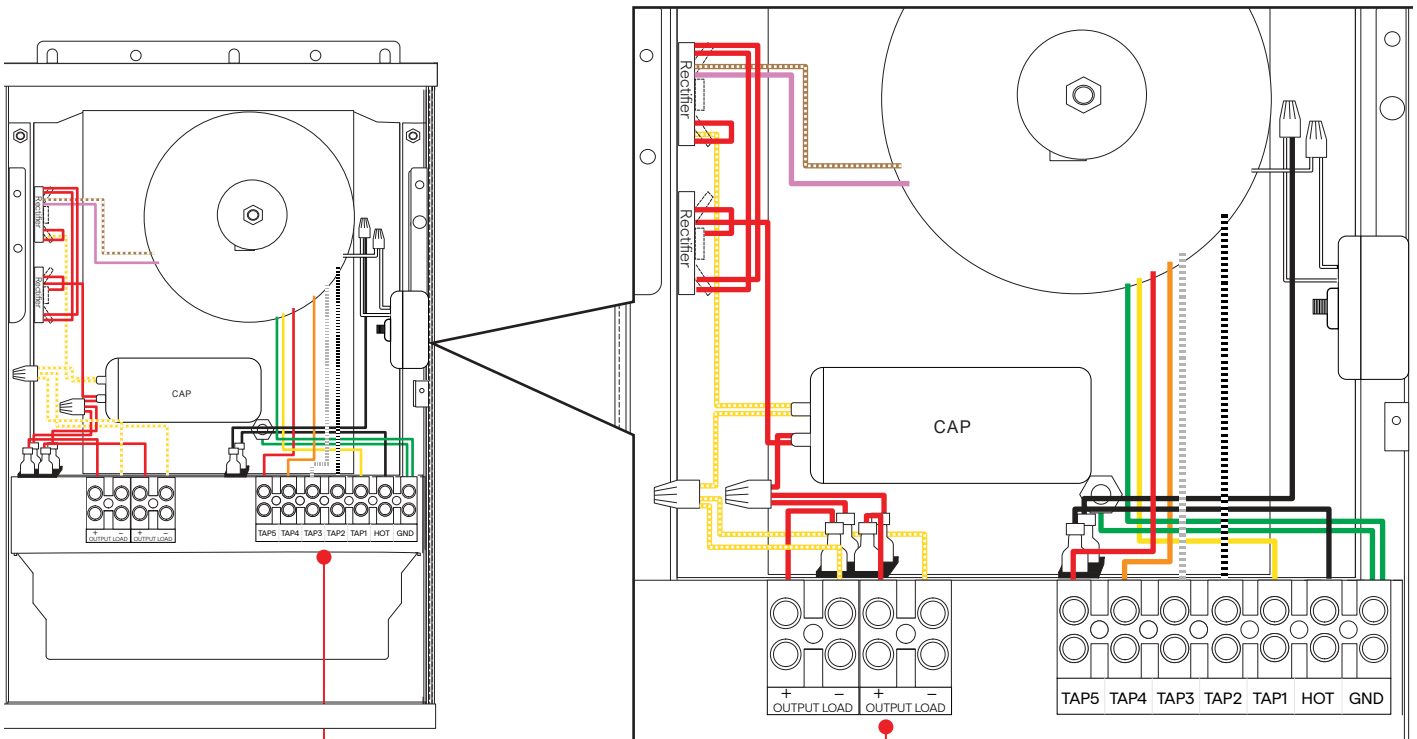
DC+CAP	
12V	**24V**
CK-S	
60-300W	

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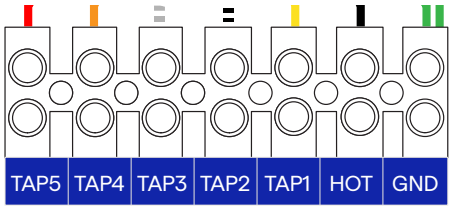
QOM-DC+CAP

Installation Instructions

Wiring Installation



PRIMARY
Line Voltage



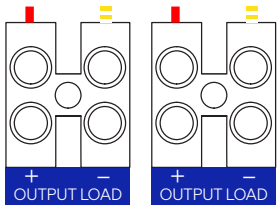
PRIMARY INPUT LOAD

Land Neutral on one Tap.
Chose either tap 1,2,3, 4 or 5

Land Hot

Land Ground

SECONDARY
Low Voltage



RED = Positive(+)
YELLOW/WHITE = Negative(-)

NOTE: Primary Input - connect the AC Input hot into block labeled Hot. Connect the neutral wire into Tap 1 - Tap 5 depending on desired output voltage. Must test all voltage readings with a true RMS Voltage Meter.

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QOM-DC+CAP

Installation Instructions

CSA Requirements

- 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.

QOM-DC+CAP

INPUT VOLTAGE: ○ 120VAC ○ 230V/50Hz ○ 277VAC

OUTPUT VOLTAGE: ○ 12V ○ 24V

Model	Input Voltage (V)	Input Current (A)	Frequency	Nominal Output Voltage (VDC)	Nominal Output Wattage (W)	SECONDARY wire connection
QOM-60DC+CAP	120/277	0.90/0.40	50/60	12	60	+ Red
QOM-120DC+CAP	120/277	1.40/0.57	50/60	12	120	- Yellow
QOM-60DC+CAP	120/277	0.90/0.40	50/60	24	60	
QOM-100DC+CAP	120/277	1.10/0.57	50/60	24	100	
QOM-200DC+CAP	120/277	2.30/1.00	50/60	24	200	

- Suitable for indoor or outdoor use
  CONVIENT POUR UNE UTILISATION INTÉRIEURE OU EXTÉRIEURE
- 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
- CAUTION - This control unit has more than one power supply point disconnect all power supplies before servicing
  COUPER L'ALIMENTATION AVEN L'ENTRETIEN
- Suitable for wet locations
  CONVIENT AUX EMPLACEMENTS MOUILLÉ
- For supply connections use wire rated for at least 60°C
  POUR LES CONNEXIONS D'ALIMENTATION, UTILISEZ UN FIL ÉVALUÉ AU MOINS À 60°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

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

CAUTION:
FOR 12VDC OUTPUT VOLTAGE, DO NOT CONNECT MORE THAN ONE LUMINAIRE HEAD ASSEMBLIES OF 60 W MAXIMUM EACH TO ANY ONE OUTPUT. FOR 24VDC OUTPUT VOLTAGE, DO NOT CONNECT MORE THAN ONE LUMINAIRE HEAD ASSEMBLIES OF 100 W MAXIMUM EACH TO ANY ONE OUTPUT.

POUR UNE TENSION DE SORTIE DE 12 V CC, NE CONNECTEZ PAS PLUS D'UN ENSEMBLE DE TÊTES DE LUMINAIRE DE 60 W MAXIMUM CHACUN À UNE SORTIE. POUR UNE TENSION DE SORTIE DE 24 V CC, NE CONNECTEZ PAS PLUS D'UN ENSEMBLE DE TÊTES DE LUMINAIRE DE 100 W MAXIMUM CHACUN À UNE SORTIE.

QTL
MILFORD, CT U.S.A.
(203) 367-8777
www.QTL.lighting

Low Voltage Luminaires Power Supply Center & LED Landscape Lighting System

CLASS: 3425-15, 3425-95, 3402-15, 3402-95

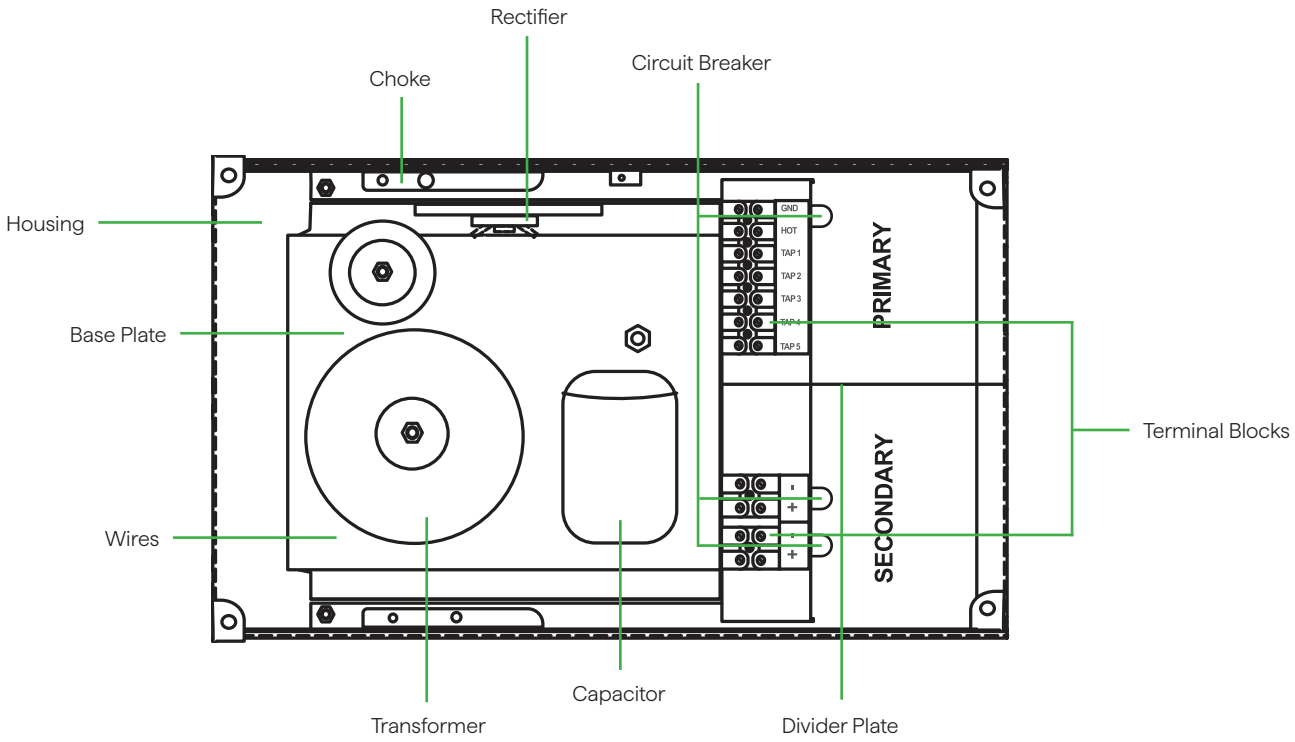
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MATERIAL RECYCLING

DC+CAP

You may be done with your products, but chances are they still have more to give. Follow these instructions to break down and sort recyclable components. Check with local recycling collection to ensure they accept the materials listed below.

Additionally, Q-Tran offers a Takeback Program. Contact factory for information.



7

Terminal Blocks

E

Transformer
Choke
Capacitor
Rectifier
Wires
Circuit Breaker

40

Housing
Base Plate
Divider Plate

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