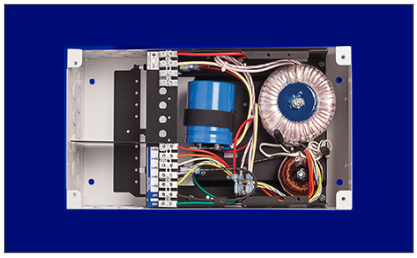
QTM-DC+CAP

12V or 24V DC Power Supply - 60W-200W



- DC power supply designed for constant voltage LED products
- Voltage options: 12 or 24VDC
- Available capacity: 60 to 200 watts
- Built-in capacitor to reduce the ripple effect
- Can be controlled with a standard MLV (magnetic low voltage) dimmer with a neutral for flicker-free dimming
- Construction: 18 gauge welded steel
- Dimensions: 14.5"L x 8"W x 4"D
- Features 21 knockouts for wiring connections
- Includes a barrier plate to separate line and low voltage wiring compartments
- Provides primary and secondary protection
- Includes boost taps for compensating for voltage drop

ORDERING PROCESS

A Specify housing

B Specify power supply tray details

A. HOUSING

A1 PRODUCT	A2 COLOR
QTM	

Sample Part Number: **QTM-WH**

B. POWER SUPPLY TRAY DETAILS

B1 PRODUCT	B2 WATTAGE	B3 PRIMARY VOLTAGE	B4 SECONDARY VOLTAGE	B5 NUMBER OF BREAKERS	B6 BREAKER AMPERAGE	B7 CHOKE	B8 ASSEMBLY	B9 COLOR
QTM-DC								

Sample Part Number: **QTM-DC-100DC+CAP-120-24VDC-1-4-CK-S-FA-WH**

A1 PRODUCT

QTM

A2 COLOR

WH White (Standard)
BK Black Powder Coat Finish

B1 PRODUCT

QTM-DC

B2 WATTAGE

60DC+CAP
120DC+CAP

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

B3 PRIMARY VOLTAGE

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

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

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

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

B4 SECONDARY VOLTAGE

12VDC

24VDC

B5 NUMBER

1
2

B6 BREAKER AMPERAGE

2.5
4
5

B7 CHOKE

CK-S 60W-300W

B8 ASSEMBLY

FA Factory Assembled
NI Not Installed

Select NI to receive the housing before the power supply tray ships.

B9 CORRELATED HOUSING COLOR

WH White (Standard)
BK Black Powder Coat Finish

BK is not standard, call for pricing

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QTM-DC+CAP

12V or 24V DC Power Supply - 60W-200W

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	

PRODUCT INFORMATION

- Tested to UL 2108 standard
- Wall mount/rod suspension
- For supply connections use wire rated for at least 75°C
- Suitable for damp locations
- Use dimmers rated for magnetic low voltage load with neutral wire
- Isolation toroidal transformer
- 50/60 cycle
- 10 year warranty

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, 22V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
TAP 2 NOT RECOMMENDED FOR USE WITH DIMMER						

SECONDARY TAP 3, 24V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
15	2028	1275	802	505	317	199
30	1014	638	401	252	159	100
45	676	425	267	168	106	66
60	507	319	200	126	79	50
80	380	239	150	95	59	37
96	317	199	125	79	50	31

SECONDARY TAP 4, 26V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
15	4365	2744	1725	1086	683	429
30	2182	1372	862	543	341	215
45	1455	915	575	362	228	143
60	1091	686	431	271	171	107
80	818	514	323	204	128	80
96	682	429	270	170	107	67

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

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

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

With Dimming - use primary tap #2

SECONDARY TAP 2, 11V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
TAP 2 NOT RECOMMENDED FOR USE WITH DIMMER						

SECONDARY TAP 3, 12V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
10	761	478	301	189	119	75
20	380	239	150	95	59	37
30	254	159	100	63	40	25
40	190	120	75	47	30	19
50	152	96	60	38	24	15
60	127	80	50	32	20	12

SECONDARY TAP 4, 13V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
10	1637	1029	647	407	256	161
20	818	514	323	204	128	80
30	546	343	216	136	85	54
40	409	257	162	102	64	40
50	327	206	129	81	51	32
60	273	171	108	68	43	27

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QTM-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

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

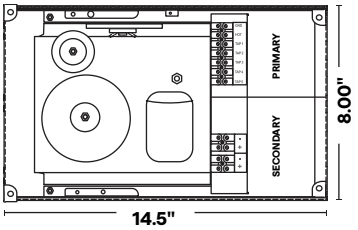
SECONDARY TAP 5, 28V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
15	6701	4212	2648	1667	1048	659
30	3350	2106	1324	834	524	330
45	2234	1404	883	556	349	220
60	1675	1053	662	417	262	165
80	1256	790	497	313	196	124
96	1047	658	414	261	164	103

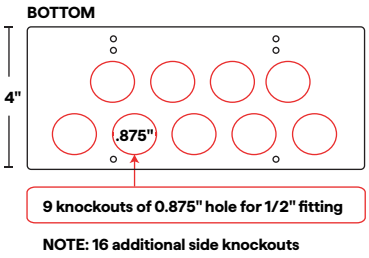
12V SYSTEM

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

SECONDARY TAP 5, 14V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
10	2513	1580	993	625	393	247
20	1256	790	497	313	196	124
30	838	527	331	208	131	82
40	628	395	248	156	98	62
50	503	316	199	125	79	49
60	419	263	166	104	65	41

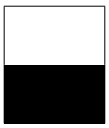
A1 PRODUCT - DIMENSIONS





NOTE: 16 additional side knockouts

A2 COLOR



White (Standard)

Black Powder Coat Finish

B2 TECHNICAL INFORMATION

Size	Max Load (Watts)	Fixture Load Volts	Max Prim. Amps @ 120V	Max Prim. Amps @ 277V
60DC	60W	12VDC	0.9 A	0.4 A
120DC	120W	12VDC	1.4 A	0.6 A

60DC	60W	24VDC	0.9 A	0.4 A
100DC	100W	24VDC	1.1A	0.5 A
120DC	120W	24VDC	1.4A	0.6A
200DC	200W	24VDC	2.2 A	1.0 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

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Specification subject to change. Rev-09-16-26

QTM-DC+CAP

12V or 24V DC Power Supply - 60W-200W

HOUSING

- 18 gauge welded steel enclosure: 14.5"L x 8.00"W x 4.00"D
- Door: 15.5"L x 9.00"W
- Knockouts: 25
- Built-in support bracket incorporated to secure housing for surface mounting

MULTI-VOLT & TAPS

- Primary Tap Options (in order from TAP1 to TAP5):
  - 12V: 11, 12, 13, 14, 15V
  - 24V: 22, 24, 26, 28, 30V
- 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 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.

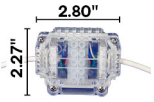
COMPATIBLE WIRING ACCESSORIES

Q-mini-J



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

Q-mini-J5



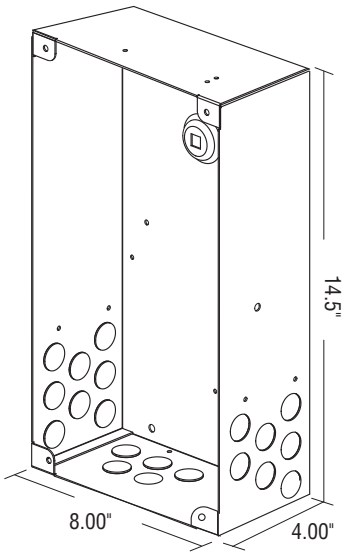
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

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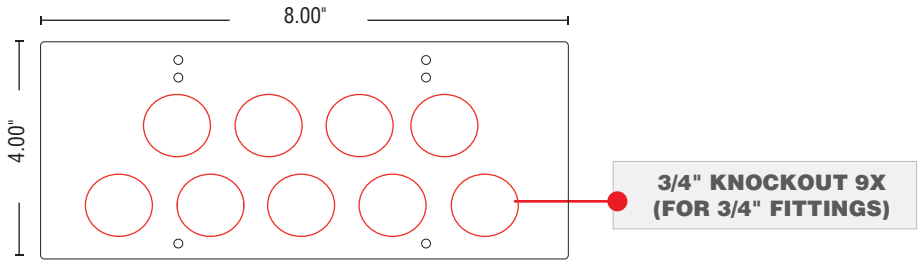
QTM-DC+CAP

Installation Instructions

Housing

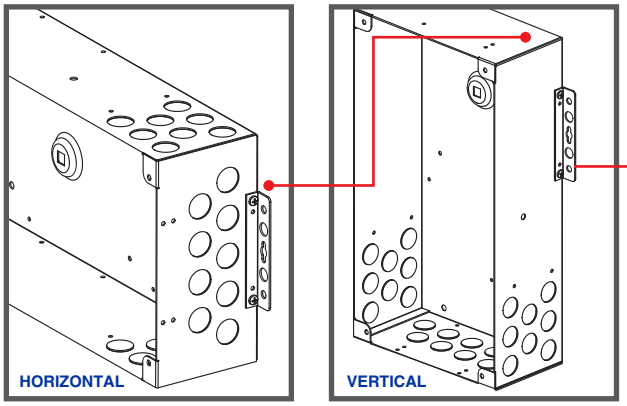


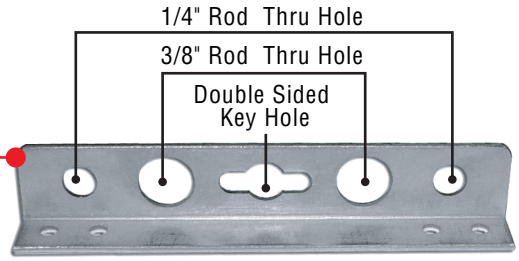
ISOMETRIC VIEW



BOTTOM VIEW

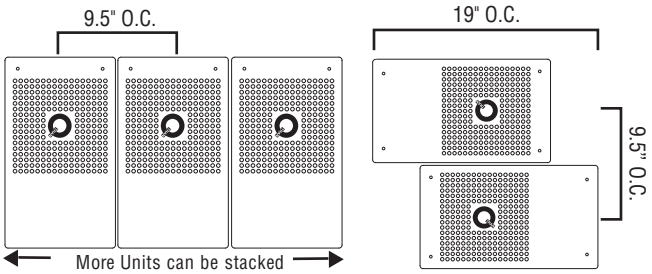
Mounting Options



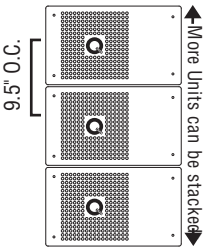


NOTE: Bracket can also be mounted (Top & Bottom) for Vertical Mounts.

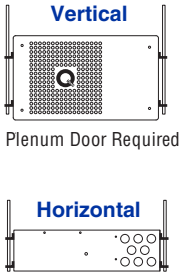
SURFACE SPACING



SURFACE STACKING



ROD SUSPENSION



NOTE: Rods not included.

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Specification subject to change. Rev-06-29-26

QTM-DC+CAP

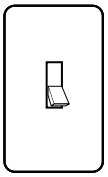
Installation Instructions

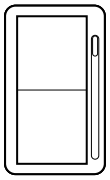
Connect Primary

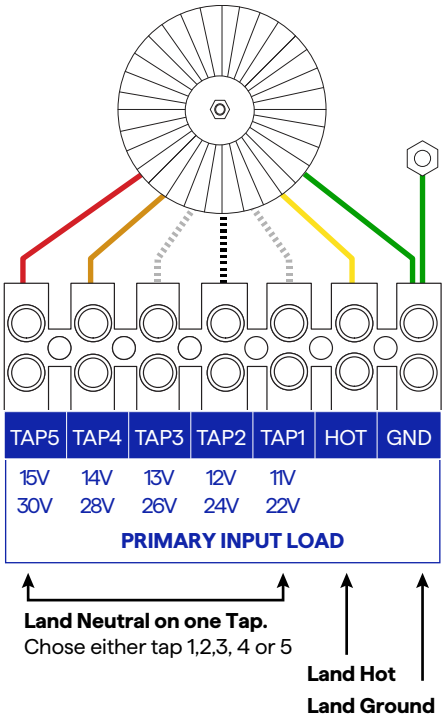
Line Voltage

- 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

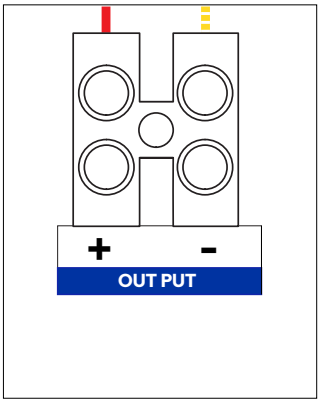
Low Voltage

- Secondary Circuit Breakers
- Secondary Common
- DO NOT EXCEED TOTAL AMPS OF SECONDARY CIRCUIT BREAKERS

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.

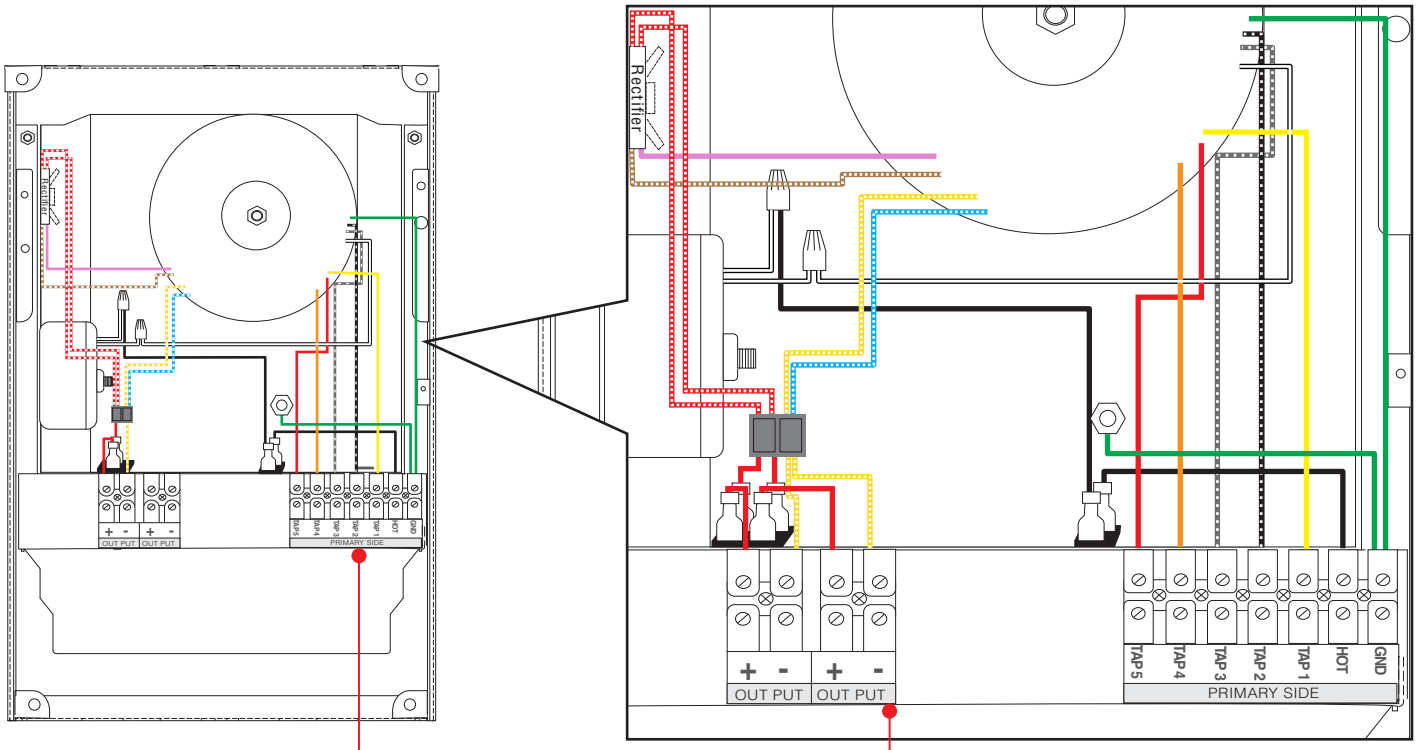
DC+CAP	
12V	24V
CK-S	
60-300W	

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Specification subject to change. Rev-06-29-26

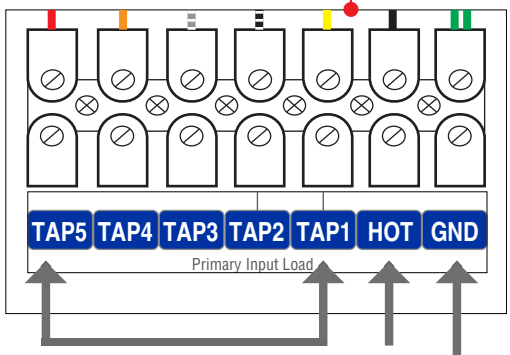
QTM-DC+CAP

Installation Instructions



PRIMARY

Line Voltage

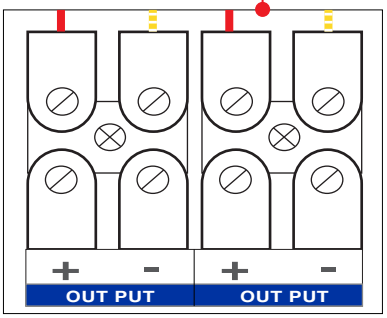


Land Neutral on one Tap. **Land Hot**

Chose either tap 1,2,3, 4 or 5 **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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Specification subject to change. Rev-06-29-26

QTM-DC+CAP

Installation Instructions

CSA Requirements

- Suitable for indoor 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.

QTM-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
DC+CAP						
QTM-60DC+CAP	120/277	0.90/0.40	50/60	12	60	+ Red
QTM-120DC+CAP	120/277	1.40/0.57	50/60	12	120	- Yellow
QTM-60DC+CAP	120/277	0.90/0.40	50/60	24	60	
QTM-100DC+CAP	120/277	1.30/0.57	50/60	24	100	
QTM-120DC+CAP	120/277	1.40/0.60	50/60	24	120	
QTM-200DC+CAP	120/277	2.40/1.00	50/60	24	200	

- Suitable for damp locations
- Wall mount only
- **CAUTION -** This control unit has more than one power supply point disconnect all power supplies before servicing
- For supply connections use wire rated for at least 60°C
- Keep enclosure cover closed
- Read installation instructions before wiring
- 50/60 Cycle
- Class 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.

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

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

Low Voltage Luminaires
Power Supply Center

CLASS: 3425-15
3425-95

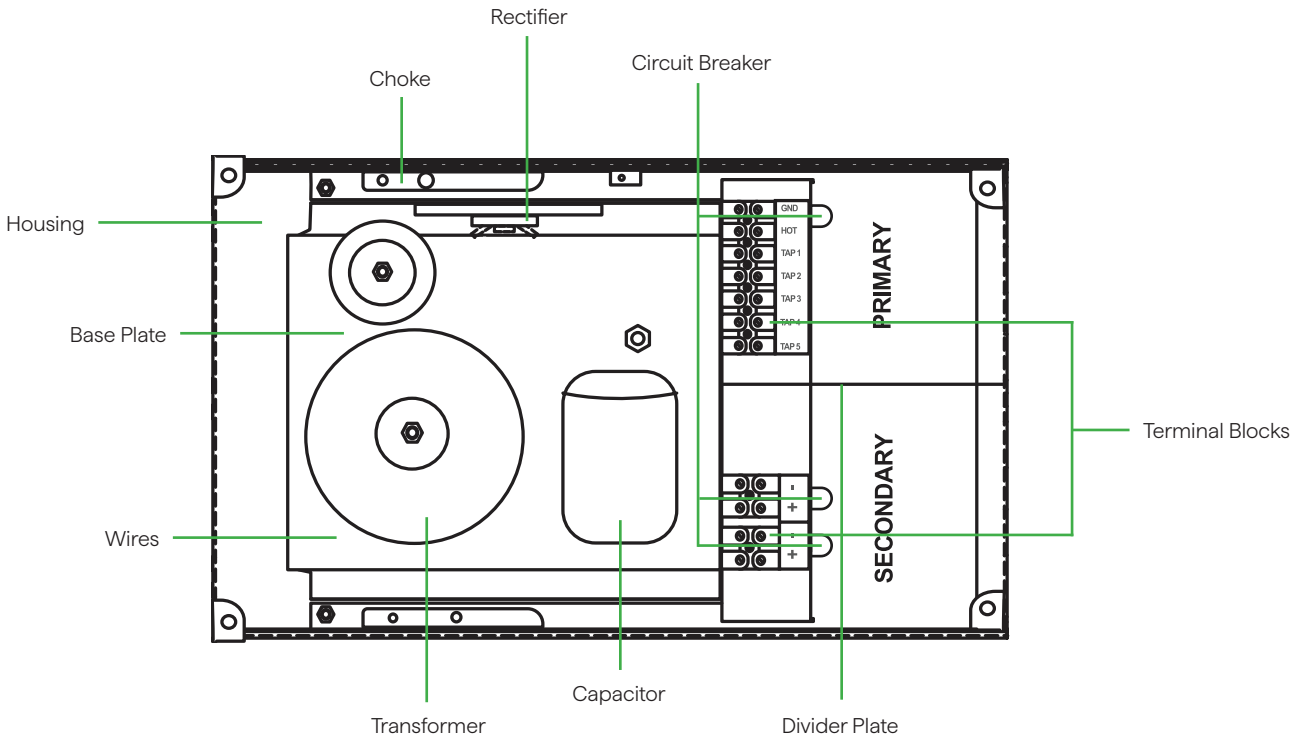
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MATERIAL RECYCLING

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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