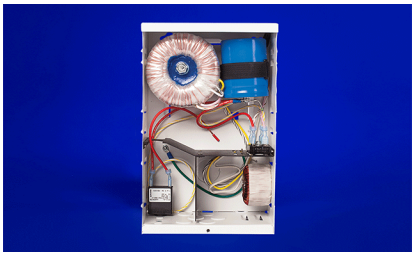
Q6M-DC+CAP

12V or 24V DC Power Supply - 60W–100W



- UL listed rectified power supply for indoor applications
- Converts AC power to DC power
- Includes a robust rectifier and three tap selections for versatility
- Capable of handling up to 60 watts at 12VDC and 96 watts at 24VDC
- Built-in capacitor ensures no ripple or flicker in the output
- Guarantees smooth and stable power supply for LED fixtures
- Ideal for powering and dimming LED fixtures
- Provides reliable and high-quality performance.
- 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
Q6M						CK-S		

Sample Part Number: **Q6M-60DC+CAP-120-24VDC-1-2.5-CK-S-BK-CP**

1 PRODUCT

Q6M

2 WATTAGE

60DC+CAP 100DC+CAP
60DC+CAP

3 PRIMARY VOLTAGE

120	60Hz
277	60Hz
120	60Hz
277	60Hz

4 SECONDARY VOLTAGE

24VDC
12VDC

5 NUMBER OF BREAKERS

1
2

6 BREAKER AMPERAGE

2.5
4
5

7 CHOKE

CK-S

8 COLOR

WH	White (Standard)
BK	Black Powder Coat Finish

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	

PRODUCT INFORMATION

- For indoor use only
- Suitable for damp locations
- Surface mount any position
- Use dimmers rated for magnetic low voltage load with neutral wire
- For supply connections use wires rated for at least 90°C
- Certified to UL 2108
- 10 Year Warranty

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Q6M-DC+CAP

12V or 24V DC Power Supply - 60W–100W

VOLTAGE DROP CHART

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

No Dimming - use primary tap #1

With Dimming - use primary tap #2

SECONDARY TAP 2, 24V						
Load Wattage (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 2, 22V						
Load Wattage (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
TAP 2 NOT RECOMMENDED FOR USE WITH DIMMER						

SECONDARY TAP 3, 26V						
Load Wattage (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 3, 24V						
Load Wattage (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 2, 12V						
Load Wattage (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 2, 11V						
Load Wattage (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
TAP 2 NOT RECOMMENDED FOR USE WITH DIMMER						

SECONDARY TAP 3, 13V						
Load Wattage (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

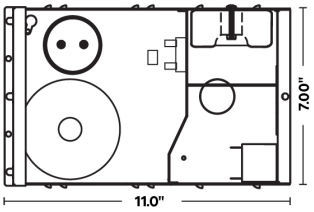
SECONDARY TAP 3, 12V						
Load Wattage (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
10	761	478	301	189	119	75
20	380	239	150	95	59	37
30	254	159	100	63	40	25
40	190	120	75	47	30	19
50	152	96	60	38	24	15
60	127	80	50	32	20	12

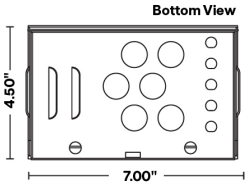
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Q6M-DC+CAP

12V or 24V DC Power Supply - 60W–100W

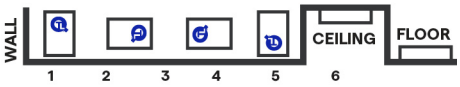
1 PRODUCT - DIMENSIONS





MOUNTING

- 6 plane surface mount
- Rod suspension (Two - 1/4" threaded rods)



2 TECHNICAL INFORMATION

Wattage	Max Load (Watts)	Fixture Load Volts	Max Prim Amps @ 120V	Max Prim Amps @ 277V
60DC+CAP	60W	24VDC	0.90 A	0.40 A
100DC+CAP	100W	24VDC	1.4 A	0.55 A
60DC+CAP	60W	12VDC	0.90 A	0.40 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: 11"L x 7"W x 4.5"D
- Knockouts: 7
- Color: white powder coating (standard)
- (2) 3/8" threaded rods (rods not included)

TOROIDAL TRANSFORMER - DUAL TAP (DT)

- (3) Primary taps: 12VDC, 13VDC, 14VDC or 24VDC, 26VDC, 28VDC
- Loads may be connected to one (1) of the primary taps up to the full watt rating of the PSC
- The advantage is that the PSC can be tapped to recover voltage drop and produce between 85%-100% light output
  - NOTE: See Voltage Drop Calculator at www.qtl.lighting

SECONDARY CIRCUIT

- Up to two (2) magnetic circuit breaker
- Amps: 2.5A, 4A, 5A
  - NOTE: Breakers are sized to the feed load per N.E.C. Article 411 (not to exceed 25 amps per load). All wiring by the electrical contractor must be Class 1 compliant to N.E.C.

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. Choke is standard.
- NOTE: Suspension rods are purchased separately and not from QTL, Inc.

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Q6M-DC+CAP

12V or 24V DC Power Supply - 60W–100W

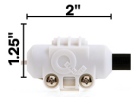
8 COLOR

Black Powder Coat Finish

White (Standard)

COMPATIBLE WIRING ACCESSORIES

Q-mini-J



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

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

Q6M-DC+CAP

Installation Instructions

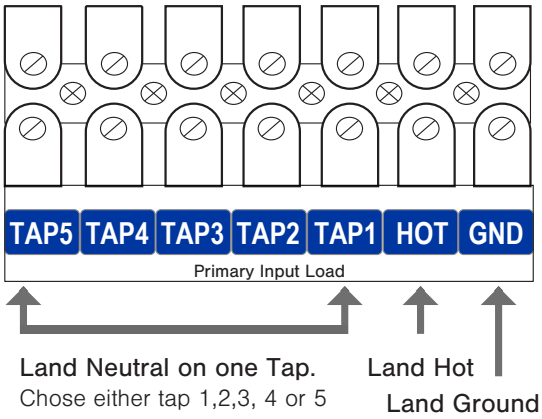
Primary Circuit Protection

- Primary Magnetic Circuit Breaker
- Primary Autoset Thermal Protector

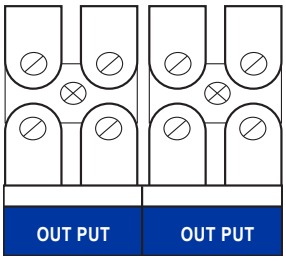
Secondary Circuit Protection

- Magnetic Circuit Breakers: 2
- Amps: 2.5A, 4A, 5A

PRIMARY (Line Voltage)



SECONDARY (Low Voltage)



NOTE: Primary Input - connect the 120V hot into block labeled Hot. Connect the neutral wire into Tap 1 - Tap 5 depending on desired output voltage.(Not to exceed 12V or 24V)

Label

Q6S-DC & Q6M-DC+CAP	INPUT VOLTAGE			OUTPUT VOLTAGE	
	○ 120V		○ 277V	○ 12V	○ 24V
Model #	Voltage (V)	Current (A)	Frequency (Hz)	Voltage (V)	Wattage (W)
Q6S-40DC	120 / 277	0.3	50/60	12/24	40
Q6S-60DC	120 / 277	0.9	50/60	12/24	60
Q6S-120DC	120 / 277	1.8	50/60	12/24	120
Q6S-100DC	120 / 277	1.4	50/60	24	100
Q6S-200DC	120 / 277	2.3	50/60	24	200
Q6M-60DC+CAP	120 / 277	0.9	50/60	12/24	60
Q6M-100DC+CAP	120 / 277	1.4	50/60	24	100

- SUITABLE FOR DAMP LOCATIONS
  CONVIENT AUX EMPLACEMENTS HUMIDE
- URFACE MOUNT ANY POSITION
- LOW VOLTAGE LED LIGHTING
  POWER SUPPLY CENTER
- FOR SUPPLY CONNECTIONS USE
  WIRE RATED FOR AT LEAST 75°C (167°F)
  LES FILS D'ALIMENTATION 75°C MIN
- DIMMER, IF USED, MUST BE MAGNETIC LOW VOLTAGE DIMMER
- MADE IN THE U.S.A

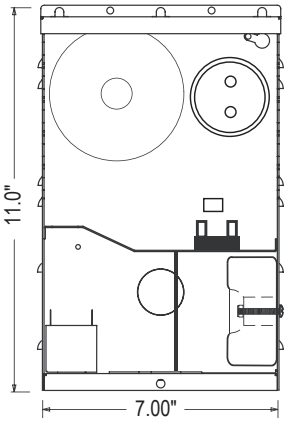
LOW VOLTAGE LIGHTING SYSTEM
Q-Tran, Inc.
CLASS: 3425 - 15
3425 - 95
C SP US
239924

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

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.





NOTE: All wiring to be Class I per National Electric Code (NEC). These installation instructions are intended for use with low voltage lighting. If you are installing the Q-Tran Q6 unit with a non-lighting system (ex. heated oors, audio systems, etc.), call the manufacturer of the system directly before installing.

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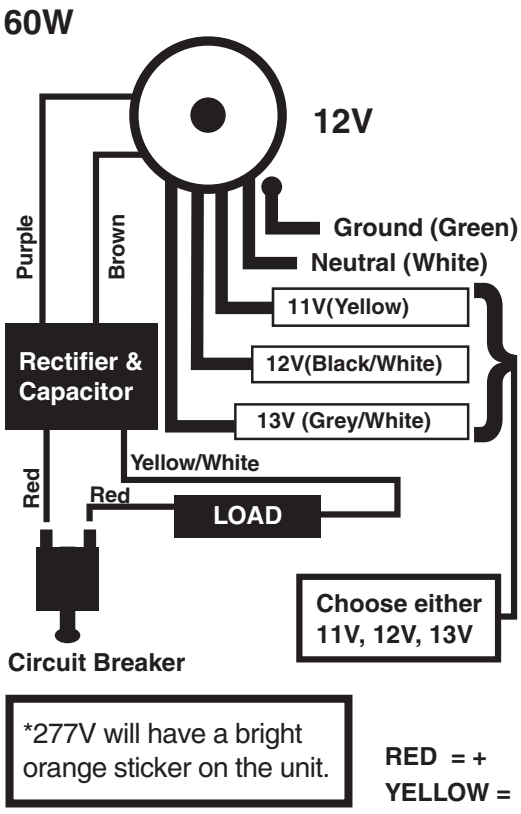
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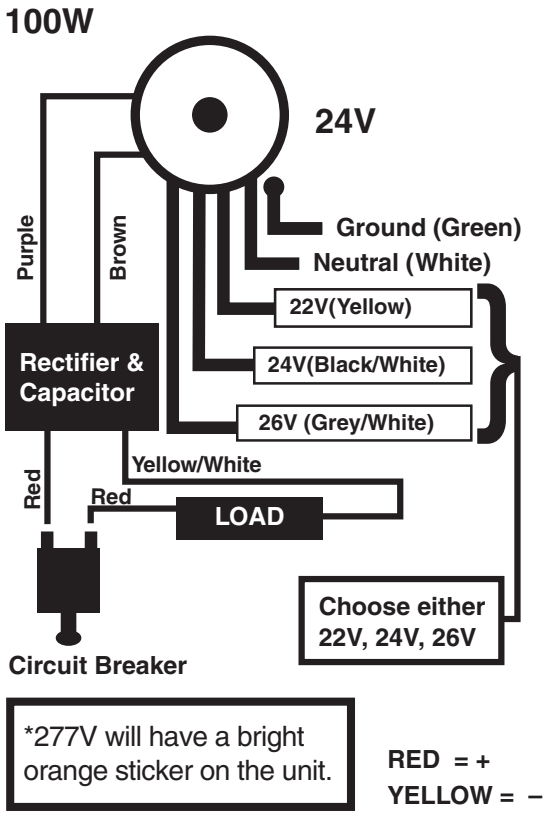
Specification subject to change. Rev-03-08-24

Q6M-DC+CAP

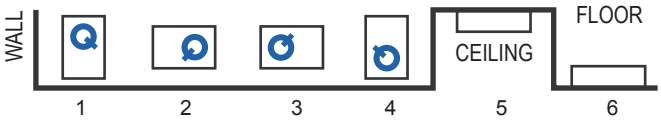
Installation Instructions

Wiring Diagram





Mounting: 6 plane surface mount



NOTE: Rods not included.

Low Voltage Lighting Power Supply

- For indoor use only
- Surface mount any position
- Suitable for damp locations
- Type IC recessed, inherently protected
- For supply connections use wire rated for at least 90°C
- Dimmer, if used, must be magnetic low voltage dimmer
- Certified to Standards ANSI/UL 2108
- Use dimmers rated for magnetic low voltage load
- Made in the U.S.A

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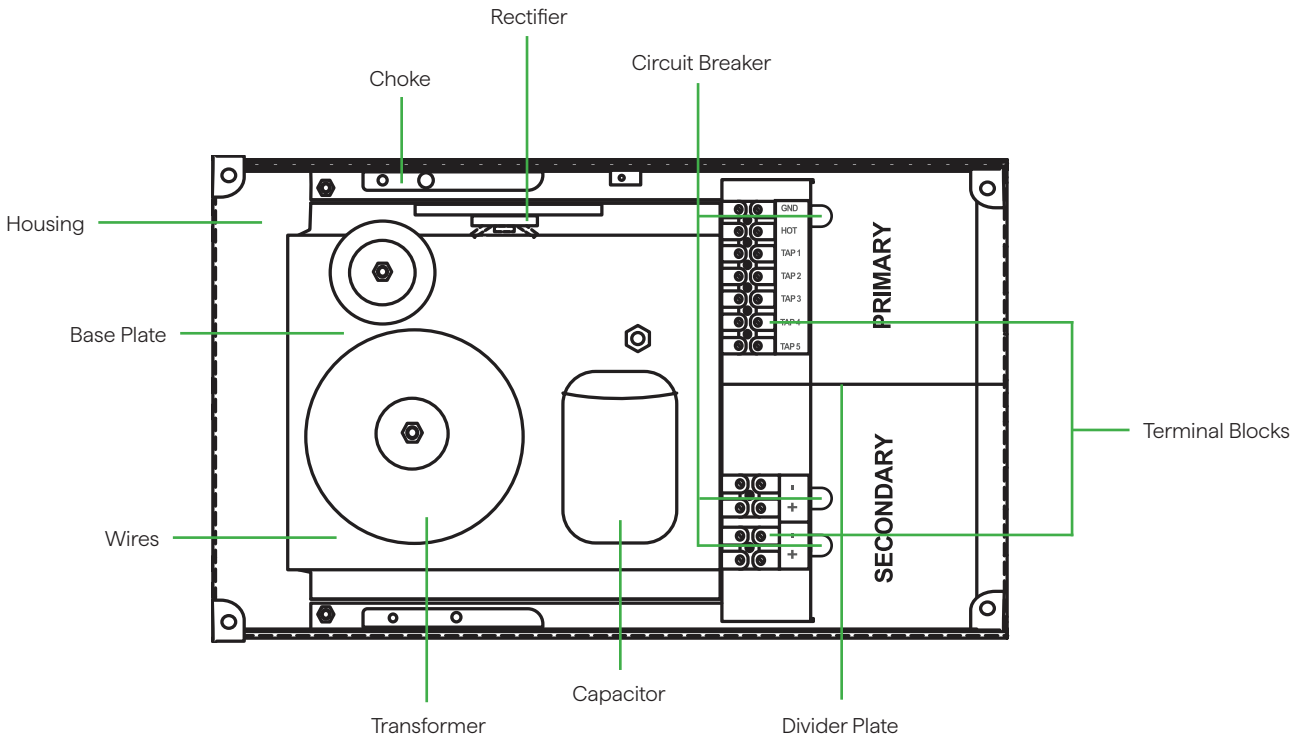
Specification subject to change. Rev-03-08-24

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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