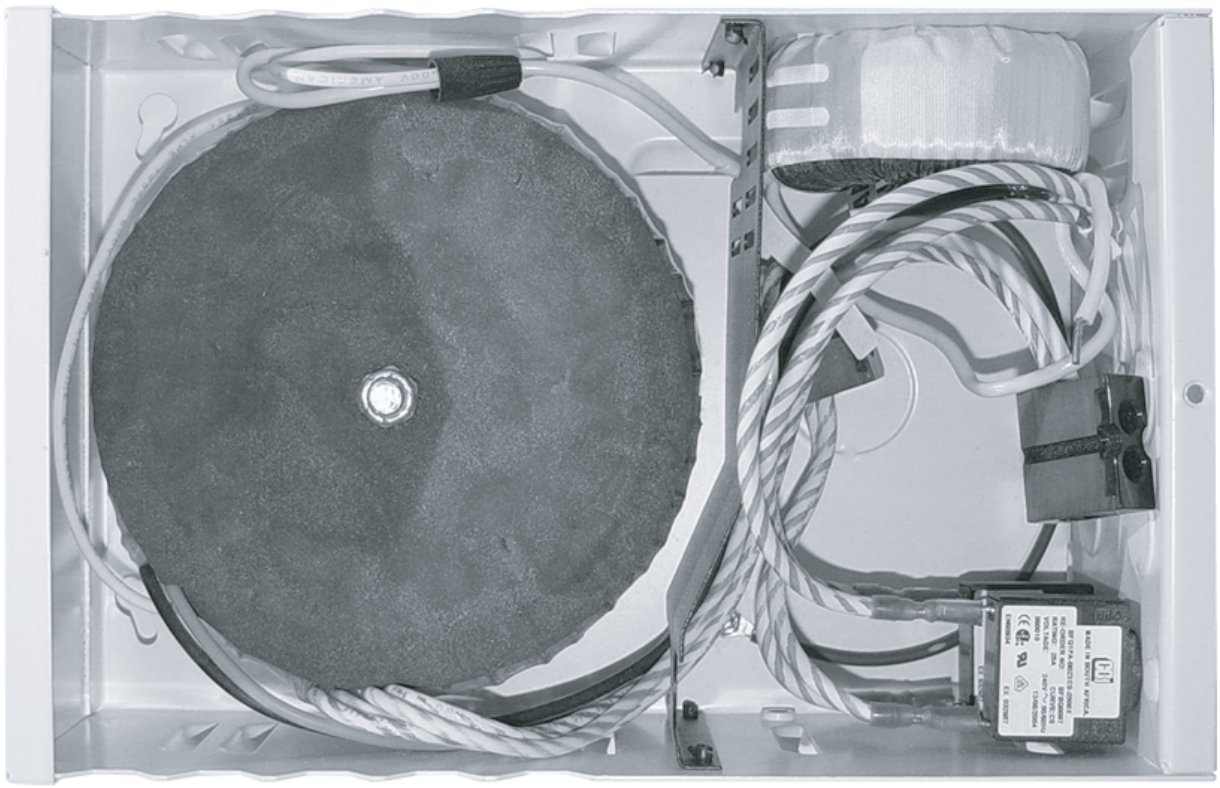
Q6 Power Supply Installation Instructions

Must be installed by electrical contractor



ENLIGHTENEDTHINKING®

Installation Instructions

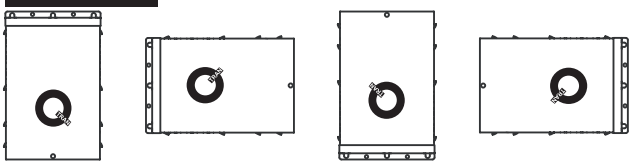
Q6 Installation Guide (Step by Step)

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 floors, audio systems, etc.), call the manufacturer of the system directly before installing.

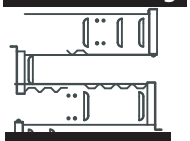
1 MOUNT unit in any of the following configurations:

(Do not recess. If you need a recessed unit, you need to order our QT series.)

Surface Wall

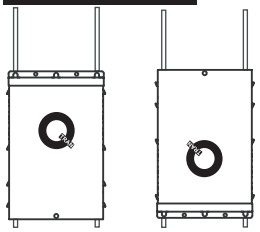


Surface Ceiling



Surface Floor

Rod Suspension

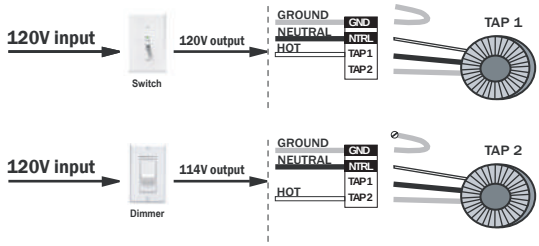


NOTE: Rods not included.

2 CONNECT PRIMARY

(For detailed look of primary, see Diagram A on the next page.)

*NOTE: Voltages are fixed and can only be changed at the factory. Voltages come in 120V, 230V or 277V.



3 VOLTAGE DROP

- To minimize voltage drop the proper gauge wire must be pulled between the Q-Tran power supply and the load.
- Q-Tran offers a free voltage drop calculator on our website (www.q-tran.com) or you can download our free voltage drop app for iPhone, iPad or android devices (click link on our site).
- Below is a quick reference chart of minimum acceptable wire gauges. (Q-Tran urges each installer to view our full calculator.)

Secondary Breaker Amperage			
Secondary Circuit Breaker	* L.V. Gauge	Max Load 12V	Max Load 24V
5 A	14 AWG	60 W	120 W
10 A	14 AWG	120 W	240 W
12.5 A	14 AWG	150 W	300W
15 A	14 AWG	180 W	360 W
20 A	12 AWG	240 W	480 W
25 A	10 AWG	300 W	600 W

*** L.V. = Class 1 wiring per NEC - wire must be sized to be equal to or greater than shown.**

4 CONNECT SECONDARY

(For detailed look at secondary, see Diagram B on the next page.)

Connect low voltage fixtures in one of the following methods:

Diagram A.

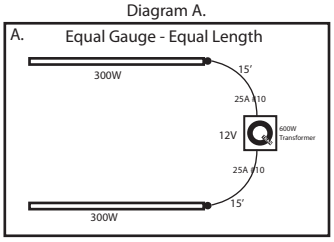


Diagram B.

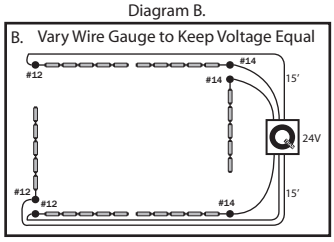


Diagram C.

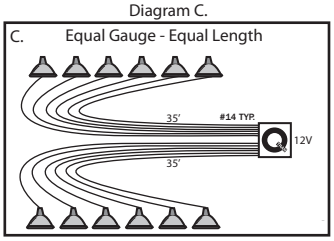
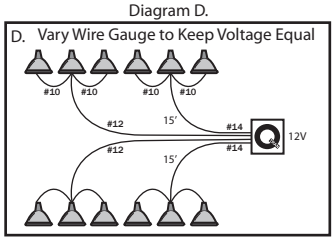
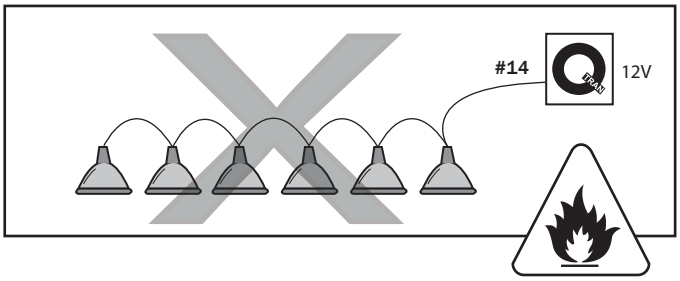


Diagram D.



DO NOT USE THIS METHOD TO WIRE YOUR LOW-VOLTAGE FIXTURES!



5 BEFORE INSTALLING door please make sure the output voltage at the lamps is between 11.4–12 volts for a 12V system or 22.8–24 volts for a 24V system. Check this voltage with a true RMS volt meter & take voltage reading at the lamps!!!

UL REQUIREMENTS

- Do not install in wet locations.
- This power supply must be installed according to the National Electric Code and local codes and ordinaces.

⚠ WARNING

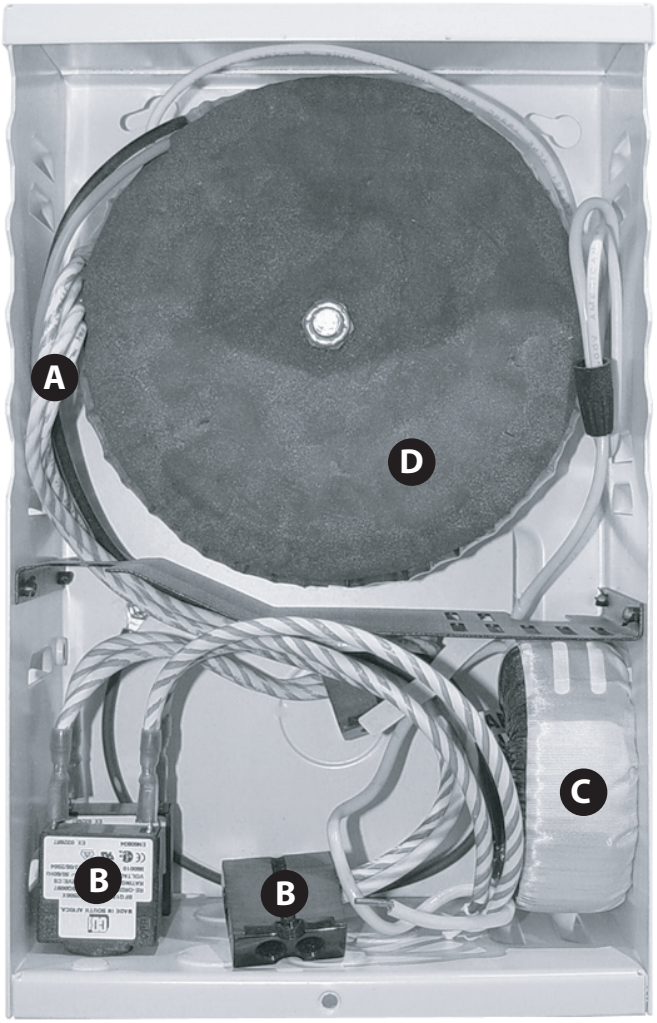
Risk of Fire / Electric Shock

Transformer should be installed by a licensed electrician in accordance with the N.E.C. and all local codes in force.

- 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.
- This power supply is to be installed so that it is not likely to be contacted by people.
- To avoid a hazard to children, account for all parts and destroy all packaging materials.

Installation Instructions

Q6 Components & UL Label



A PRIMARY (Input Wires)

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

B SECONDARY (Output Wires)

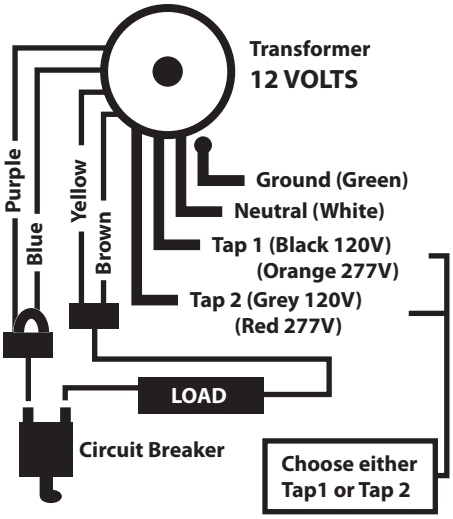
- Secondary Circuit Breakers
- Secondary Common
- DO NOT EXCEED TOTAL AMPS OF SECONDARY CIRCUIT BREAKERS
- Output voltage is wired as ordered (12 or 24 volts) but can be changed by a licensed electrician.

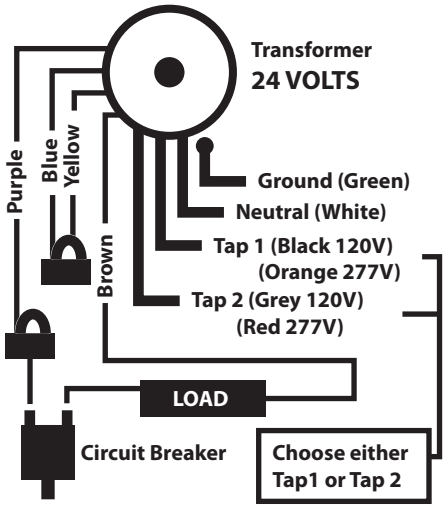
C CHOKE

- 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.

D TRANSFORMER

- Small – 50, 100, 150 & 300 Watts
- Medium – 500, 600 and 750 Watts
- Large – 900, 1050, 1200, 1500 & 1800 Watts
  **Do not exceed capacity of Transformer





LISTED c UL us 5F78

LOW VOLTAGE LUMINAIRE POWER SUPPLY CENTER

- SURFACE MOUNT ANY POSITION
- SUITABLE FOR DAMP LOCATIONS
- FOR SUPPLY CONNECTIONS USE WIRE RATED FOR AT LEAST 90 C
- SUITABLE FOR INDOOR USE ONLY
- COMPLIES WITH N.E.C. ARTICLE 411
- COMPLIES WITH UL STANDARD 2108
- ISOLATION TOROIDAL TRANSFORMER
- USE DIMMERS RATED FOR MAGNETIC LOW VOLTAGE LOAD
- 50/60 CYCLE A.C. ONLY
- MADE IN THE U.S.A.