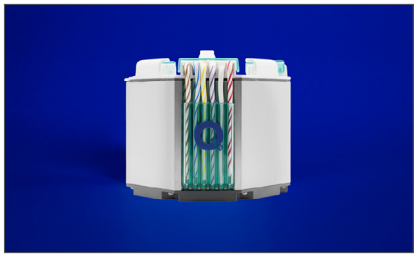
Q-HEX

AC Power Supply - 60W-300W



- Module low voltage power supply, available in both 12VAC and 24VAC outputs
- Power ratings available are 60W-300W
- Comes standard with two primary taps and five secondary taps, to compensate for any voltage drop
- Works seamlessly with the Q-TRIX-B160 direct burial junction box, providing an unrivaled solution for all outdoor lighting needs

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE	5 BREAKER AMPERAGE
Q-HEX				

Sample Part Number: **Q-HEX-120W-120-24V-5**

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE	5 BREAKER AMPERAGE
Q-HEX	**60W** **120W** **180W** **240W** **300W**	**120** **277**	**12V** **24V**	**2.5** **5** **7.5** **10** **12.5** **15** **20** **25**

CSA Class

Input	Output (MAX)	CSA Class
120V	12VAC	3426-04 Luminaires - Landscape Lighting Systems - Component 3426-94 Luminaires - Landscape Lighting Systems - Component - US
120V-277V	12VAC	3426-94 Luminaires - Landscape Lighting Systems - Component - US
120V-277V	24VAC	3425-15 Luminaires - Low Voltage Lighting Systems 3425-95 Luminaires - Low Voltage Lighting Systems - US

PRODUCT INFORMATION

- All leads are live after primary is connected
- Plastic tubes hold leads securely and provide easy access
- Easy to connect and pull wire through protective tube
- All connections should be made with silicone filled wire nuts
- Q-HEX comes with (1) secondary breaker
- Power supply has thermal protection
- Landscape Lighting
  - CSA C22.2 No. 250.7-07 Extra-low-voltage Landscape Lighting Systems
  - UL 1838 Low Voltage Landscape Lighting Systems
- Low Voltage Lighting
  - CSA C22.2 No. 250.0-08 Luminaires
  - UL 2108 Low Voltage Lighting Systems

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Q-HEX

AC Power Supply - 60W-300W

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
50	688	432	272	171
100	344	216	136	86
150	229	144	91	57
200	172	108	68	43
250	138	86	54	34
300	115	72	45	29

With Dimming - use primary tap #2

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

SECONDARY TAP 3, 26V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
50	1452	913	574	361
100	726	456	287	181
150	484	304	191	120
200	363	228	143	90
250	290	183	115	72
300	242	152	96	60

SECONDARY TAP 3, 24V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
50	608	383	240	151
100	304	191	120	76
150	203	128	80	50
200	152	96	60	38
250	122	77	48	30
300	101	64	40	25

SECONDARY TAP 4, 28V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
50	2217	1393	876	552
100	1108	697	438	276
150	739	464	292	184
200	554	348	219	138
250	443	279	175	110
300	369	232	146	92

SECONDARY TAP 4, 26V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
50	1309	823	517	326
100	655	412	259	163
150	436	274	172	109
200	327	206	129	81
250	262	165	103	65
300	218	137	86	54

12V SYSTEM

No Dimming - use primary tap #1

SECONDARY TAP 2, 12V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
20	430	270	170	107
35	246	154	97	61
50	172	108	68	43
75	115	72	45	29
100	86	54	34	21
150	57	36	23	14
200	43	27	17	
240	36	23	14	
300	29	18		

With Dimming - use primary tap #2

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

SECONDARY TAP 3, 13V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
20	908	571	359	226
35	519	326	205	129
50	363	228	143	90
75	242	152	96	60
100	182	114	72	45
150	121	76	48	30
200	91	57	36	
240	76	48	30	
300	61	38		

SECONDARY TAP 3, 12V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
20	380	239	150	95
35	217	137	86	54
50	152	96	60	38
75	101	64	40	25
100	76	48	30	19
150	51	32	20	13
200	38	24	15	
240	32	20	13	
300	25	16		

SECONDARY TAP 4, 14V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
20	1385	871	548	345
35	792	498	313	197
50	554	348	219	138
75	369	232	146	92
100	277	174	110	69
150	185	116	73	46
200	139	87	55	
240	115	73	46	
300	92	58		

SECONDARY TAP 4, 13V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
20	818	514	323	204
35	468	294	185	116
50	327	206	129	81
75	218	137	86	54
100	164	103	65	41
150	109	69	43	27
200	82	51	32	
240	68	43	27	
300	55	34		

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Q-HEX

AC Power Supply - 60W-300W

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
50	2981	1874	1178	742
100	1490	937	589	371
150	994	625	393	247
200	745	468	295	185
250	596	375	236	148
300	497	312	196	124

With Dimming - use primary tap #2

SECONDARY TAP 5, 28V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
50	2010	1264	794	500
100	1005	632	397	250
150	670	421	265	167
200	503	316	199	125
250	402	253	159	100
300	335	211	132	83

12V SYSTEM

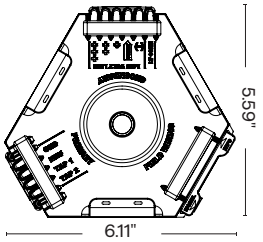
No Dimming - use primary tap #1

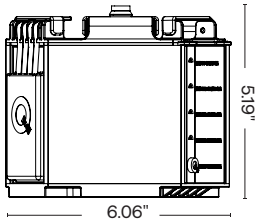
SECONDARY TAP 5, 15V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
20	1863	1171	736	464
35	1065	669	421	265
50	745	468	295	185
75	497	312	196	124
100	373	234	147	93
150	248	156	98	62
200	186	117	74	
240	155	98	61	
300	124	78		

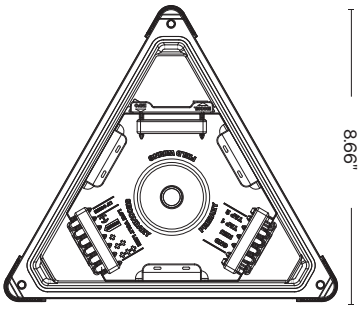
With Dimming - use primary tap #2

SECONDARY TAP 5, 14V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
20	1256	790	497	313
35	718	451	284	179
50	503	316	199	125
75	335	211	132	83
100	251	158	99	63
150	168	105	66	42
200	126	79	50	
240	105	66	41	
300	84	53		

1 PRODUCT - DIMENSIONS







Q-HEX shown mounted into Q-TRIX-B160
NOTE: Q-TRIX-B160 sold separately

2 TECHNICAL INFORMATION

Wattage	Secondary Voltage	Max Prim Amps @ 120V	Max Prim Amps @ 277V
60W	12V/24V	0.7 A	0.3 A
120W	12V/24V	1.3 A	0.6 A
180W	12V/24V	1.9 A	0.9 A
240W	12V/24V	2.5 A	1.1 A
300W	12V/24V	3.2 A	1.4 A

Secondary Breaker Amperage

Amps	Max 12V Load	Max 24V Load	Wire Color
2.5	-	60W	Brown/White
5	60W	120W	Brown/White
7.5	-	180W	Brown/White
10	120W	240W	Brown/White
12.5	-	300W	Brown/White
15	180W	-	Brown/White
20	240W	-	Brown/White
25	300W	-	Brown/White

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Q-HEX

AC Power Supply - 60W-300W

HOUSING

- Enclosure: 6.11"L x 5.59"W x 5.19"H

PRIMARY TAPS

- 2 primary taps for additional flexibility
- A switch or dimming tap to compensate for losses when dimming

SECONDARY MULTI-VOLT

- Load may be connected to one or more of the secondary taps of Q-HEX
- No derating required for incandescent of halogen loads
- 50% derating required for LED retrofit loads
- For VOYA COB products refer to specific derating requirements on VOYA spec sheets
- Five (5) secondary taps provide secondary voltages of: 11V, 12V, 13V, 14V & 15V and 22V, 24V, 26V, 28V & 30V
- Voltage drop associated with long wire runs can be compensated for with the different tap options, ensuring the desired voltage at the light fixture and produce between 85%-100% light output

FIELD WIRING

- Manage wires when installing the unit

PERFORMANCE

- Outdoor and in-ground use
- Ability to be dimmed using MLV Dimmer
- 10 year warranty
- Rated for:
  Landscape Lighting System Components: CSA Class 3426-04 and Class 3426-94
  Low Voltage Lighting Systems: CSA Class 3426-06 and Class 3426-96
- Fully potted in epoxy to limit water ingress
- Live tested by manufacturer to ensure proper operation

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Q-HEX

AC Power Supply - 60W-300W

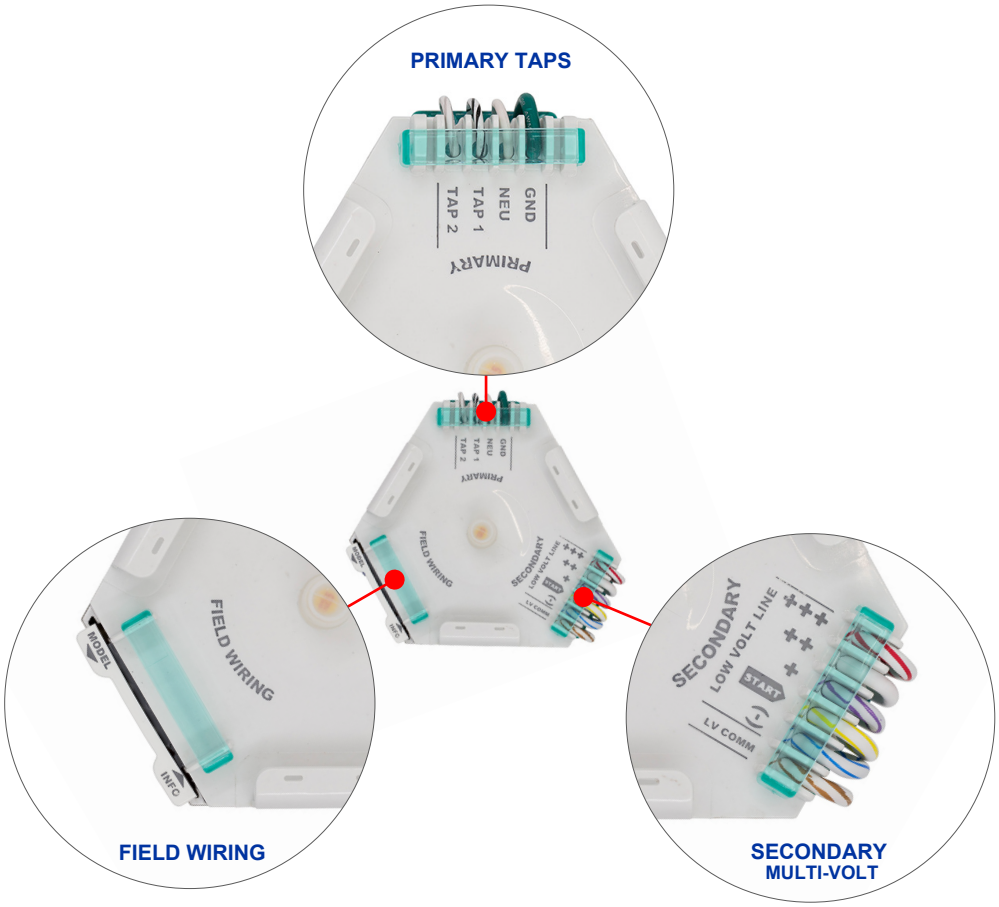
ILLUSTRATIONS



Model information on the front of plate.



UL information
on the back of plate.



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Specification subject to change. Rev-11-12-26

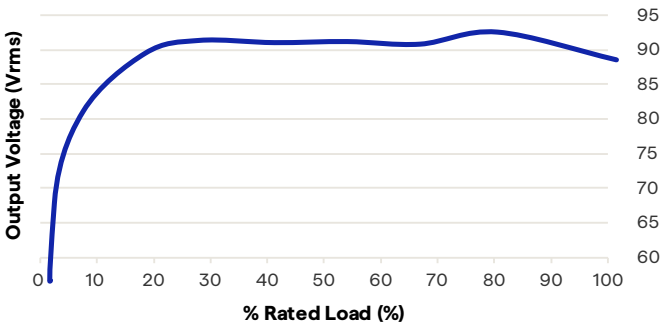
Q-HEX

AC Power Supply - 60W-300W

SPECIFICATIONS

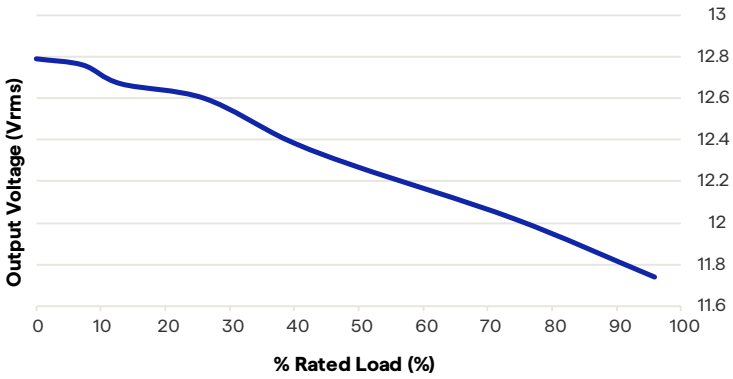
Q-HEX-300-120/12

Efficiency vs. % Rated Load



Q-HEX-300-120/12

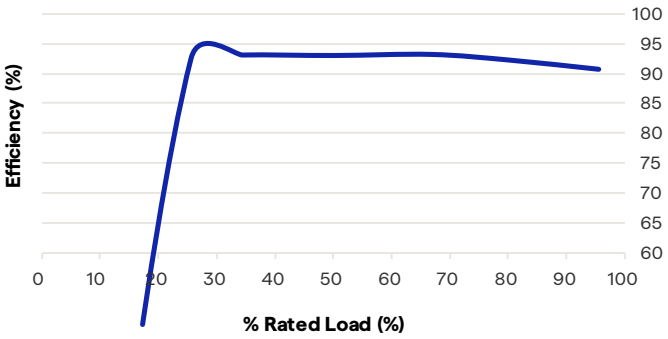
Output Voltage vs. % Load



NOTE: TAP 2 nominal output voltage tap.

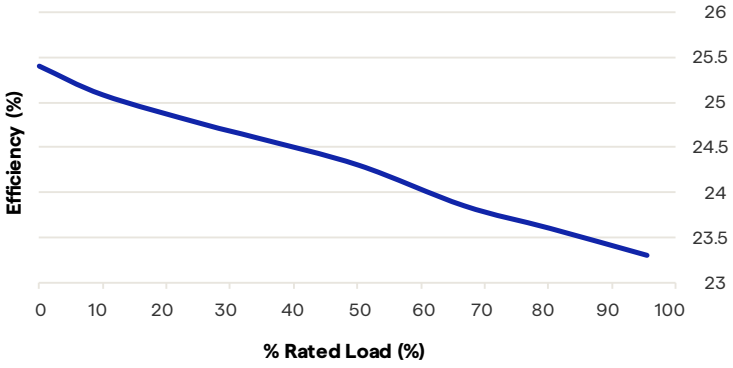
Q-HEX-300-120/24

Efficiency vs. % Rated Load



Q-HEX-300-120/24

Output Voltage vs. % Rated Load



NOTE: TAP 2 nominal output voltage tap.

COMPATIBLE DIRECT BURIAL PRODUCTS

Q-TRIX-B160



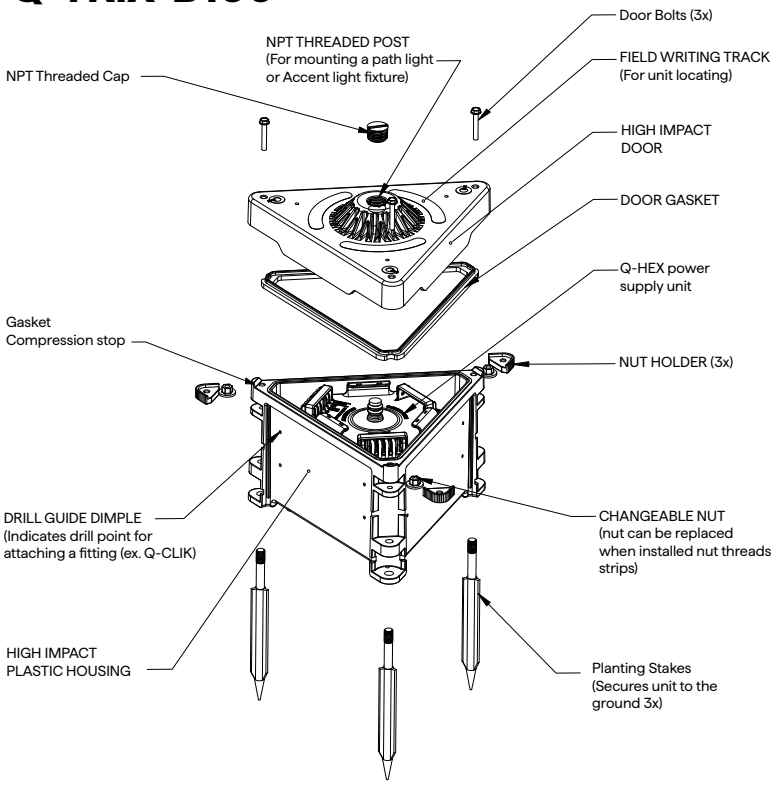
IP68 wet listed direct burial enclosure for Q-HEX

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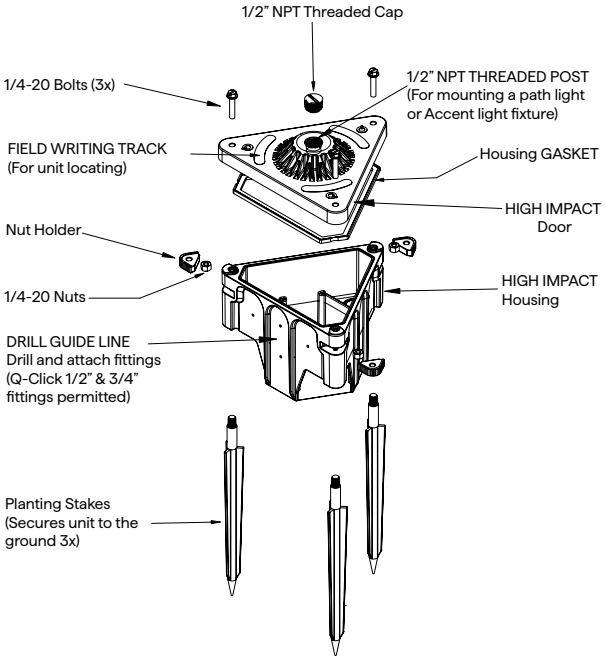
Q-TRIX-B160, Q-TRIX-R50 & Q-HEX

Installation Instructions

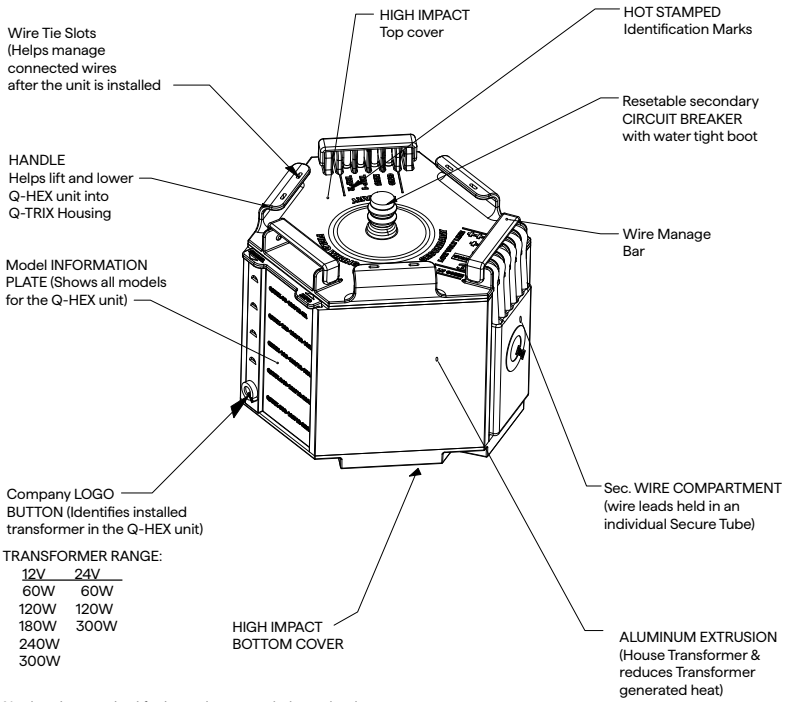
Q-TRIX-B160



Q-TRIX-R50



Q-HEX



TRANSFORMER RANGE:

12V	24V
60W	60W
120W	120W
180W	300W
240W	
300W	

No derating required for incandescent or halogen loads
50% derating required for LED retrofit loads

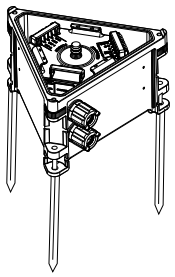
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Specification subject to change. Rev-11-12-26

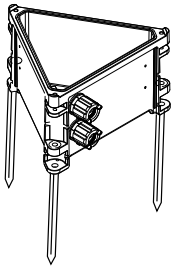
Q-TRIX-B160, Q-TRIX-R50 & Q-HEX

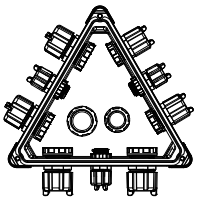
Installation Instructions

Q-TRIX-B160 with Q-HEX



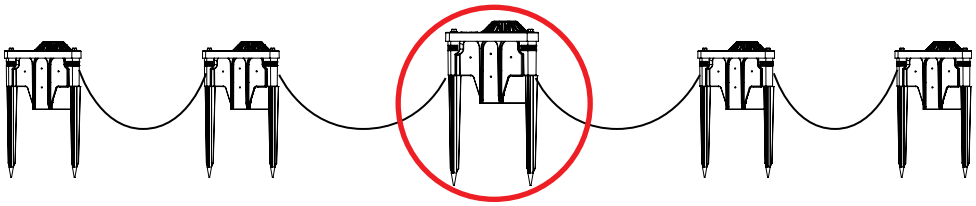
Q-TRIX-B160 without Q-HEX



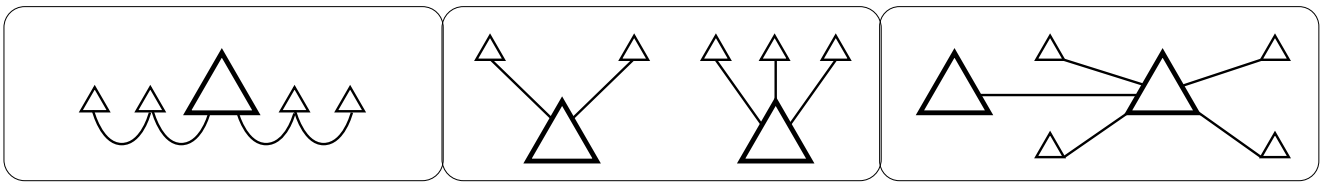


Splice J-Box
(Use water tight connectors
Ex: Q-CLIK MST/NPT connectors.
Connectors sold seperately)

Q-TRIX-R50 (LOAD DISTRIBUTION REMOTE SPLICE BOX)

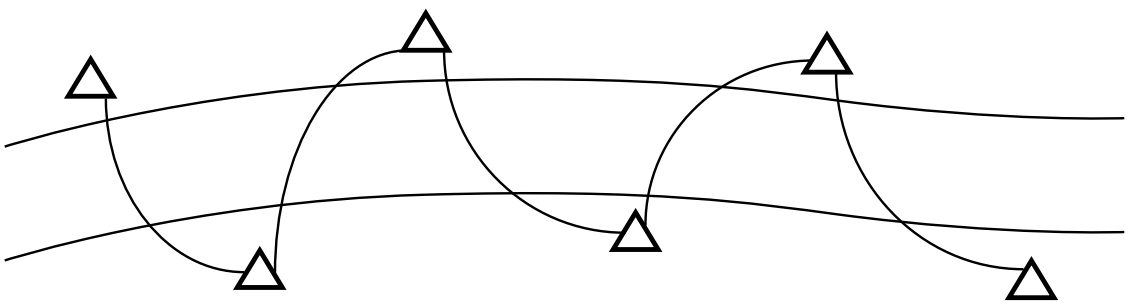


Q-TRIX Direct Burial Design Configuration



(1) Feed from Q-TRIX-B160 unit to Q-TRIX-R50 **(2) Feed from Q-TRIX-B160 unit to Q-TRIX-R50** **(3) Q-TRIX-B160 to B160 to R50 remote boxes**

Pathway example:



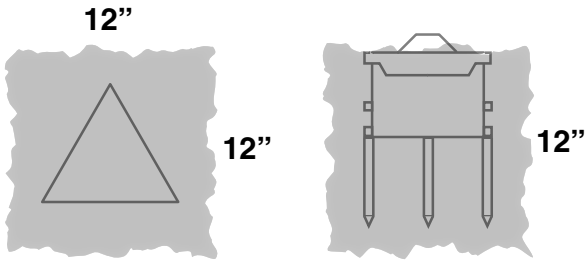
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Q-TRIX-B160, Q-TRIX-R50 & Q-HEX

Installation Instructions

1 EXCAVATE (DIG HOLE)

Dig 12" x 12" x 12" hole that Q-TRIX housing will fit inside as shown.

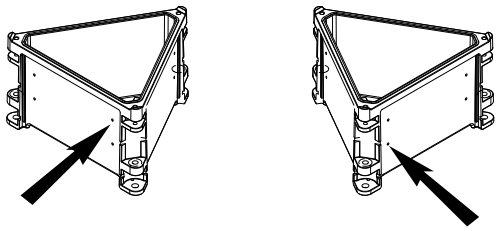


TOP VIEW (Hole Length & Width)

SIDE VIEW (Hole Depth)

2 KNOCKOUT OR DRILL HOLES

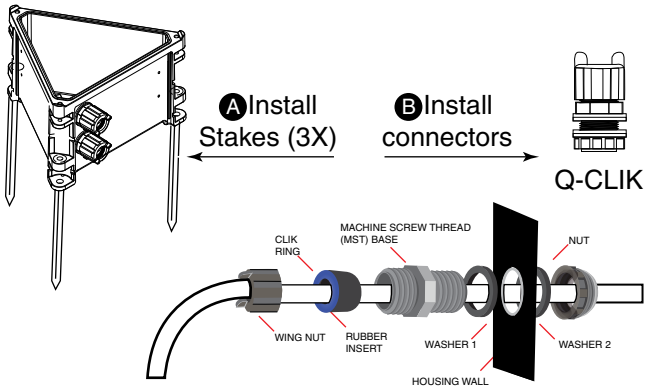
Drill knock out holes for Wire Connectors.
Example: Q-CLIKconnectors.



*Use only these Drill sizes for side Holes: 7/8 for 1/2" KO and 1 1/8 for 3/4" KO

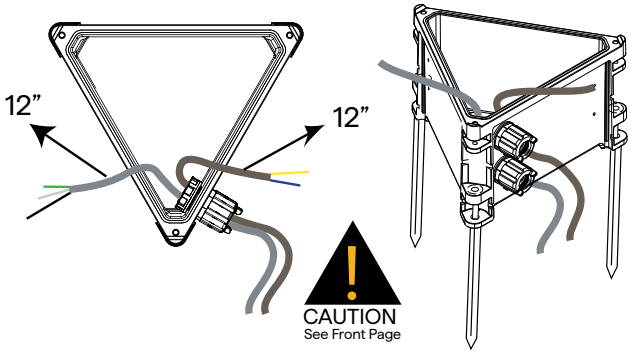
NOTE: Drill only one corner of Q-TRIX housing when installing Q-HEX power supply unit. Maximum of 4x Q-CLIK connectors can be installed. 2x connectors of 1/2" or 3/4" on each side.(Q-CLIK SOLD SEPARATELY)

3 INSTALL CONNECTORS & STAKES



NOTE: Use Q-WIRE & Q-CLIK for water tight installation (Q-WIRE & Q-CLIK sold seperately)

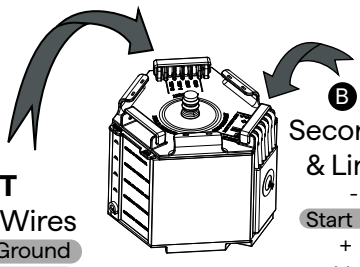
4 RUN FIELD WIRES TO HOUSING



Pull maximum of 12” of primary and Secondary wires into Q-TRIX housing. Use Splice Box R20 for additional wire splicing and Power Distribution.

5 PREPARE Q-HEX WIRE

Pull out the following highlighted wires from their slots.
NOTE: Only pull out wires needed for connection



A INPUT
Primary Wires
Green - Ground
White - Neutral
Black - Tap 1
Grey - Tap 2 (boost tap for dimmer)

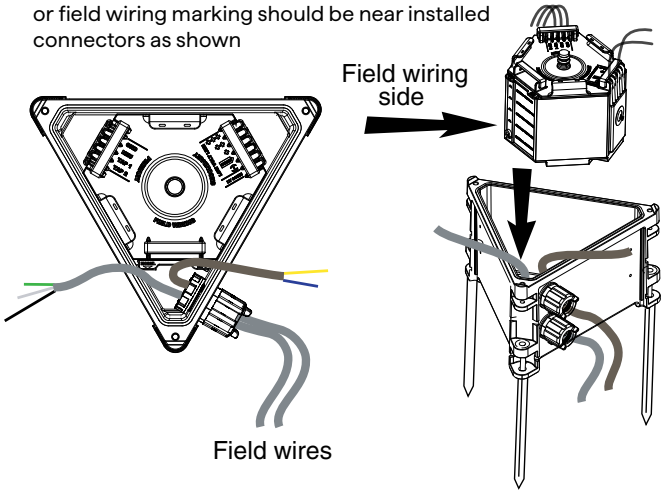
B OUTPUT
Secondary LV Com & Line Side Wires

-	11V
Start	12V
+	13V
++	14V
+++	15V
Com	Bkr.

NOTE: When voltage drops use the next tap on the line side.
Example: + / ++ / +++

6 LOWER Q-HEX INTO Q-TRIX

Q-Hex installation orientation: Information panel or field wiring marking should be near installed connectors as shown



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Specification subject to change. Rev-11-12-26

Q-TRIX-B160, Q-TRIX-R50 & Q-HEX

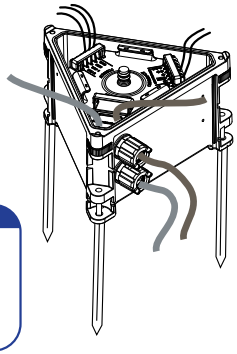
Installation Instructions

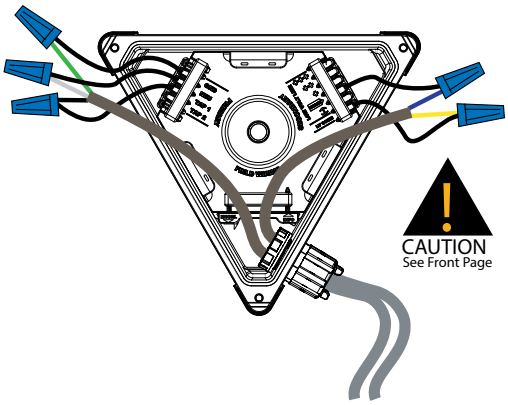
7 CONNECT WIRES

- Use Water tight silicone filled wire nuts to connect all wires in the Q-TRIX Unit (wire nuts not provided).
- Use Q-TRIX-R20 remote box for additional wire splicing or power distribution. (Additional Q-TRIX R20 remote box sold seperately).

AC

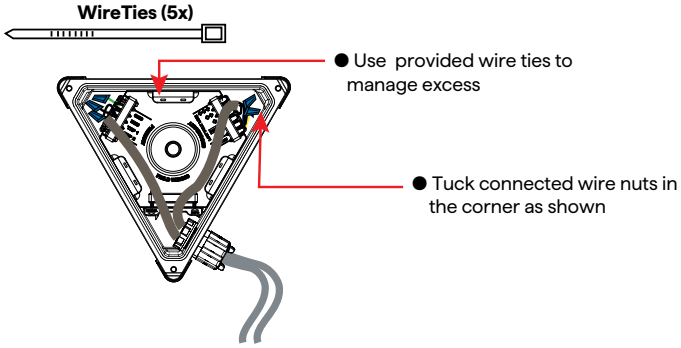
- Connect INPUT load to Primary white / black and green wire
- Connect OUTPUT load to secondary 12v or 24v wire and common wire.

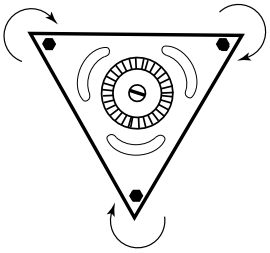




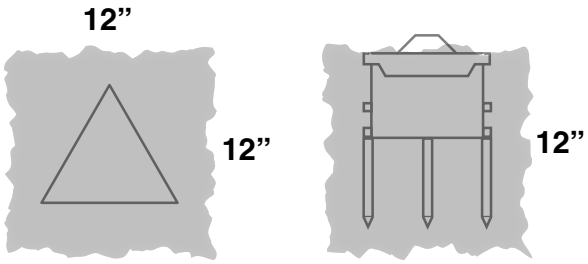
8 PREPARE UNIT TO BE BURIED

•Cover Housing and tightened (3x) 10-32 stainless steel Door Bolts by alternating bolt turns. Tighten bolts at a Maximum torque of 35” lbs.



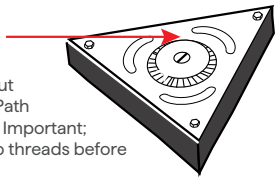


9 BURY Q-TRIX WITH 2" TOP EXPOSED



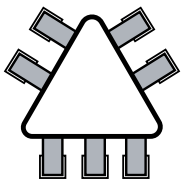
OPTIONAL FIXTURE INSTALLATION ON Q-TRIX UNIT

Remove cap and expose 1/2” NPT threads and knockout center KO to install Path light, or accent light. Important; squeeze silicone into threads before mounting fixture.



10 OPTIONS

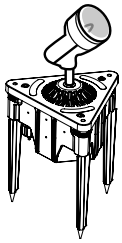
Q-TRIX-R50 SPLICE BOX



Q-TRIX-R50 Housing can be used for wire splicing and power distribution (Q-CLIK 1/2" & 3/4" NPT or MST connectors can be used)

Diagram A

Q-TRIX FIXTURE MOUNT



1/2" NPT threaded Door allows fixture to be mounted on Q-TRIX unit.

Diagram B

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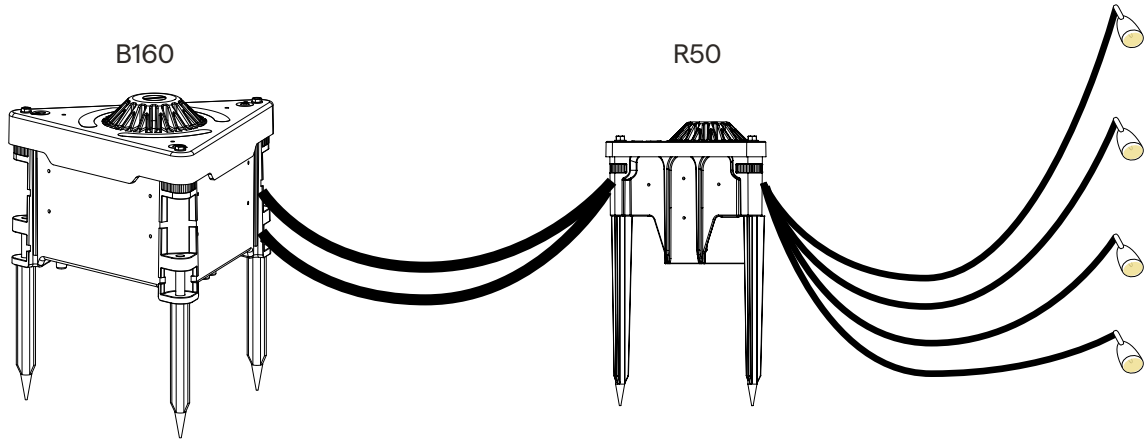
Specification subject to change. Rev-11-12-26

Q-TRIX-B160, Q-TRIX-R50 & Q-HEX

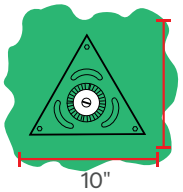
Installation Instructions

Q-TRIX-R50 DIRECT BURIAL SPLICE BOX

Q-TRIX-R50 junction box allows for multiple load distribution from Q-TRIX-B160 unit and can stand alone as a Direct Burial junction box.

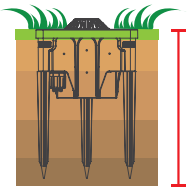


Bury Q-TRIX-R50 with 2" top exposed



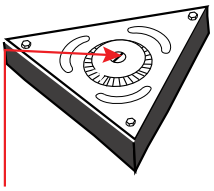
TOP VIEW
(Hole Length & Width)

Bury Q-TRIX-R50 in a 10x10x12 inch dug up hole.

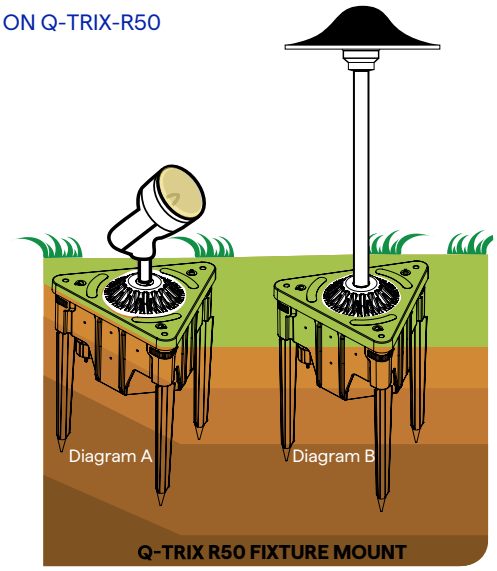


SIDE VIEW
(Hole Depth)

OPTIONAL FIXTURE INSTALLATION ON Q-TRIX-R50 JUNCTION BOX



Remove cap and expose 1/2" NPT threads and knockoutcenter KO to install Path Light, or Accent Light. Important; squeeze silicone into threads before mounting fixture.
(See Diagram A & B)

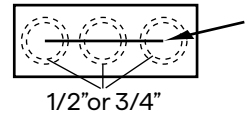


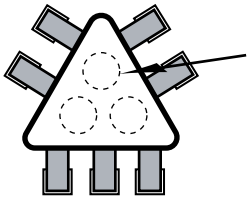
1 **Drill & Make Connections**
Drill holes and connect connectors in 3 possible sides.
NOTE: Use Q-CLIK connectors to ensure watertight connection.
(Q-CLIK sold separetely)

2 **Mount Box to Plate**
Install 3 provided stainless steel #6 screws at the bottom of unit after wire splicing is complete. Turn the R50 sideways and install screws.

3 **Install Stakes**
Install 3 stakes to R50 top plate by screwing the stakes in place in the direction shown.

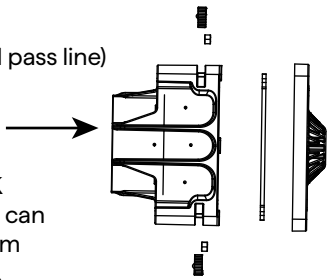
Maximum Q-CLIK connectors that can be used on each side are:

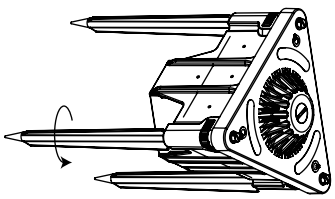




Drill line
(Do not drill pass line)

Any Q-CLIK connectors can be used from the bottom.





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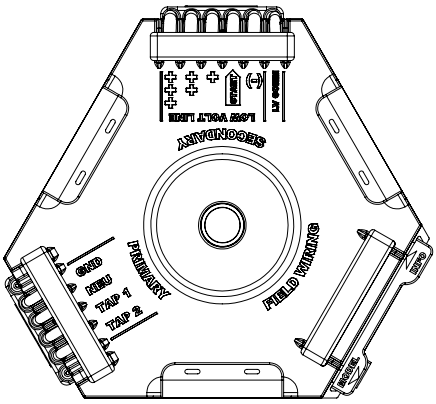
Specification subject to change. Rev-11-12-26

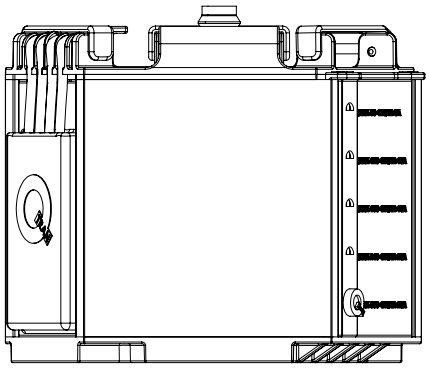
MATERIAL RECYCLING

Q-HEX

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.





E

Fully Potted Power Supply

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