QJB

12V or 24V AC Power Supply - 10W-20W



- AC power supply designed for indoor applications
- Available in 10 watts or 20 watts
- Input voltage options: 120V or 277V
- Output voltage options: 12V or 24V
- Compact 4-inch square junction box design
- Provides a solid solution for smaller AC/LED loads.

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE
QJB			

Sample Part Number: **QJB-10W-120(60Hz)-12V**

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE
QJB	**10W** **20W**	**120** 60Hz **277** 60Hz	**12V** **24V**

PRODUCT INFORMATION

- For indoor use only
- Suitable for damp locations
- Wall or recess mount capable
- Type IC recessed, inherently protected
- Dimmer, if used, must be magnetic low voltage dimmer
- Class 2 output
- Dimmers must have a neutral
- Suitable for Class 2 wiring
- For supply connections use wires rated for at least 75°C
- CSA #239924
- Low Voltage Lighting Systems
  - UL 1598 - Luminaires
  - UL Standard 2108 - Low Voltage Lighting System
  - UL Standard 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products
  - CSA C22.2 No 250.13-14 - Light Emitting Diode (LED) Equipment for Lighting Applications
- 10 Year Warranty

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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

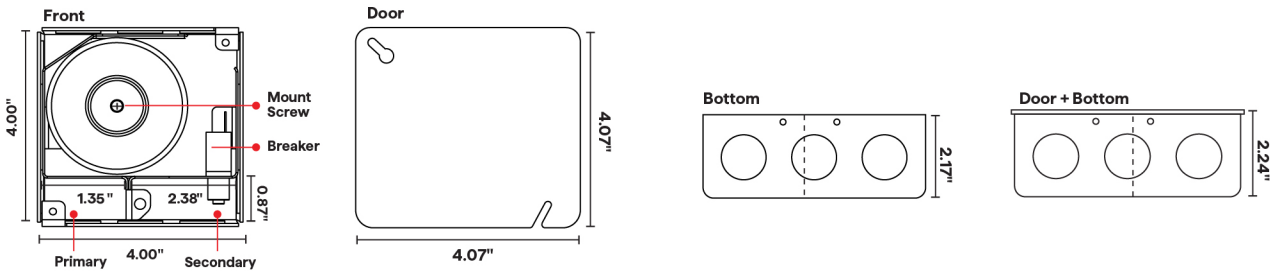
SECONDARY TAP 2, 24V						
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
5	6879	4324	2719	1712	1076	677
10	3439	2162	1359	856	538	338
15	2293	1441	906	571	359	226
20	1720	1081	680	428	269	169

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
5	1720	1081	680	428	269	169
10	860	541	340	214	134	85
15	573	360	227	143	90	56
20	430	270	170	107	67	42

1 PRODUCT - DIMENSIONS



2 TECHNICAL INFORMATION

Wattage	Max Load (Watts)	Secondary Voltage	Max Prim Amps @ 120V	Max Prim Amps @ 277V
10W	1x10W	24V	0.096 A	0.042 A
20W	1x20W	24V	0.192 A	0.083 A
10W	1x10W	12V	0.096 A	0.042 A
20W	1x20W	12V	0.192 A	0.083 A

HOUSING

- 20 - gauge steel enclosure
- Junction Box: 4.00"W x 4.00"H x 2.20"D
- Door: 4.07"W x 4.07"H
- Color: white powder coating
- Knockouts: 2

PRIMARY CIRCUIT PROTECTION

- Primary Autoset Thermal Protector
  - NOTE: Thermal protector will temporarily disconnect the primary if the transformer overheats due to an overload or saturation from a faulty dimmer

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SECONDARY CIRCUIT PROTECTION

- Magnetic Circuit Breaker: 1
- Amps: 5A
  - NOTE: Breakers are sized to the feed load per N.E.C. Article 411

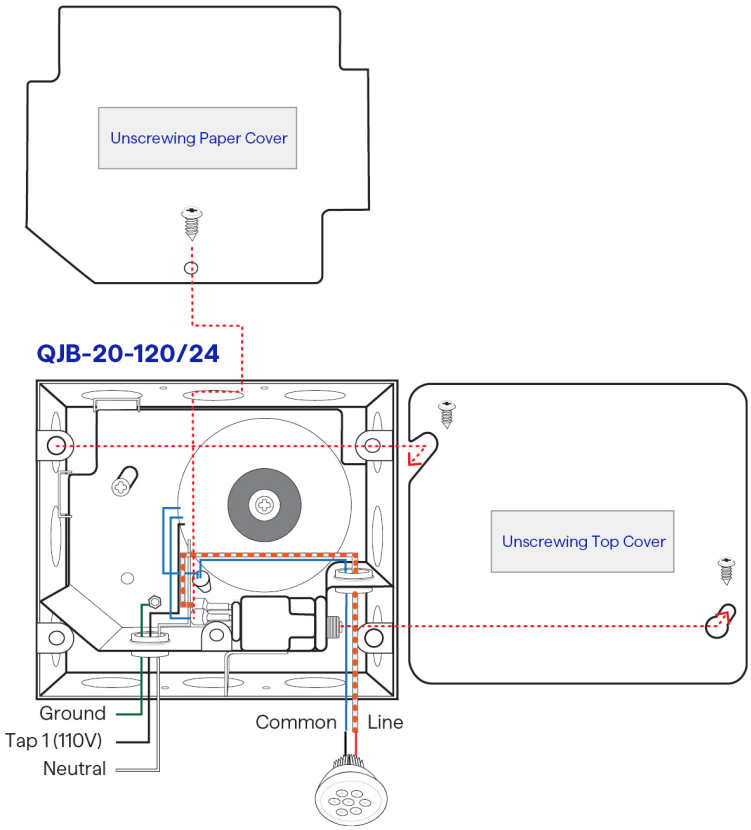
INCLUDED ITEMS

- Barrier Plate

TOROIDAL TRANSFORMER

- Primary Taps: 1
- Output Voltages: 12V or 24V
  - NOTE: 20W Supplies have one tap and 40W supplies have 3 taps
- No derating required for incandescent and halogen loads
- 50% derating required for LED retrofit loads

WIRING DIAGRAM



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COMPATIBLE WIRING ACCESSORIES

Q-mini-J



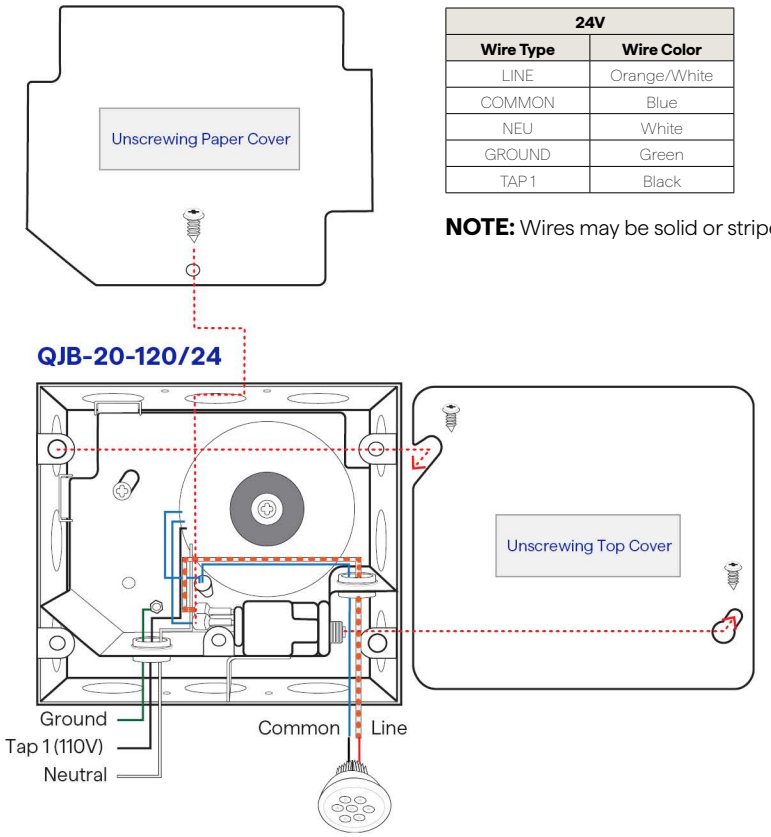
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

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QJB

Installation Instructions

WIRING DIAGRAM



24V	
Wire Type	**Wire Color**
LINE	Orange/White
COMMON	Blue
NEU	White
GROUND	Green
TAP 1	Black

NOTE: Wires may be solid or striped

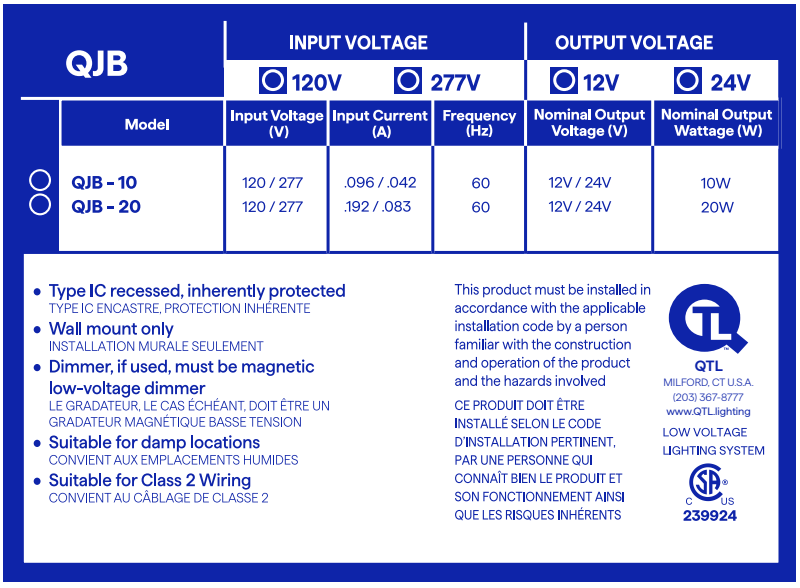
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QJB

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.



QJB		INPUT VOLTAGE			OUTPUT VOLTAGE	
		○ 120V	○ 277V		○ 12V	○ 24V
	Model	Input Voltage (V)	Input Current (A)	Frequency (Hz)	Nominal Output Voltage (V)	Nominal Output Wattage (W)
○	QJB - 10	120 / 277	.096 / .042	60	12V / 24V	10W
○	QJB - 20	120 / 277	.192 / .083	60	12V / 24V	20W

- Type IC recessed, inherently protected
  TYPE IC ENCASTRE, PROTECTION INHÉRENTE
- Wall mount only
  INSTALLATION MURALE SEULEMENT
- Dimmer, if used, must be magnetic low-voltage dimmer
  LE GRADATEUR, LE CAS ÉCHÉANT, DOIT ÊTRE UN GRADATEUR MAGNÉTIQUE BASSE TENSION
- Suitable for damp locations
  CONVIENT AUX EMPLACEMENTS HUMIDES
- Suitable for Class 2 Wiring
  CONVIENT AU CÂBLAGE DE 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

QTL
MILFORD, CT U.S.A.
(203) 367-8777
www.QTLighting
LOW VOLTAGE LIGHTING SYSTEM
C US
239924

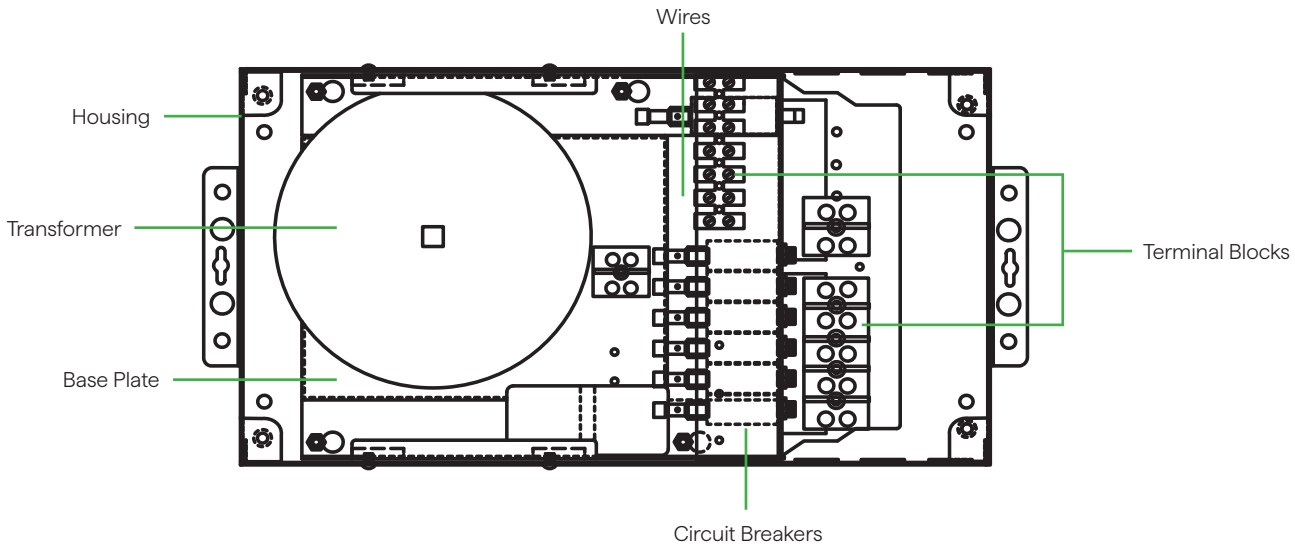
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MATERIAL RECYCLING

AC INDOOR - QTM, Q6, QTL, QJB

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

Wires
Transformer
Circuit Breaker

40

Housing
Base Plate

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