QJBL

12V or 24V AC Power Supply - 20W–40W



- AC power supply designed for indoor applications
- Available in 20 watts or 40 watts
- Input voltage options: 120V or 277V
- Output voltage options: 12V or 24V
- 4 11/16-inch square junction box design
- Provides a solid solution for smaller AC/LED loads.

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE
QJBL			

Sample Part Number: **QJBL-20W-120(60Hz)-12V**

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE
QJBL	20W 40W	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

For non-dim applications, use primary tap #1
For dimming applications, use primary tap #2

Distances shown reflect a 5% voltage drop (95% of rated voltage delivered) — the maximum recommended run. The 20W power supply does not support dimming.

Order the 40W version for dimming capabilities.

24V SYSTEM

No Dimming - use primary tap #1

SECONDARY TAP 2, 24V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
5	6879	4324	2719	1712
10	3439	2162	1359	856
15	2293	1441	906	571
20	1720	1081	680	428
25	1376	865	544	342
30	1146	721	453	285
35	983	618	388	245
40	860	541	340	214

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				

12V SYSTEM

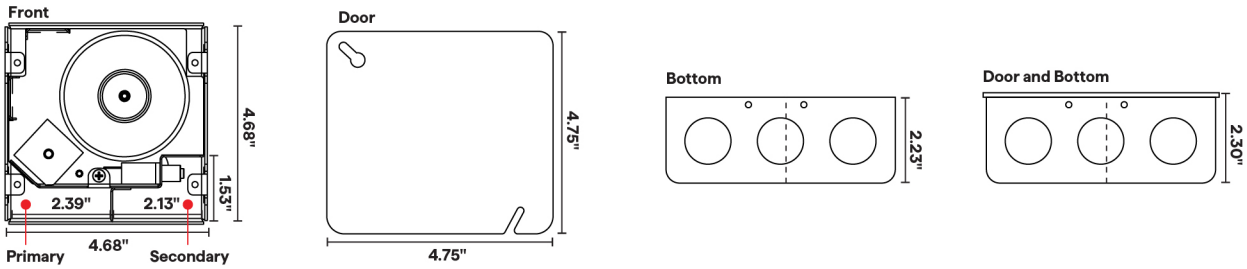
No Dimming - use primary tap #1

SECONDARY TAP 2, 12V				
Load (W)	8 AWG	10 AWG	12 AWG	14 AWG
5	1720	1081	680	428
10	860	541	340	214
15	573	360	227	143
20	430	270	170	107
25	344	216	136	86
30	287	180	113	71
35	246	154	97	61
40	215	135	85	53

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				

1 PRODUCT - DIMENSIONS



2 TECHNICAL INFORMATION

Wattage	Max Load (Watts)	Secondary Voltage	Max Prim Amps @ 120V	Max Prim Amps @ 277V
20W	1x20W	24V	0.324 A	0.140 A
40W	1x40W	24V	0.384 A	0.166 A
20W	1x20W	12V	0.324 A	0.140 A
40W	1x40W	12V	0.384 A	0.166 A

HOUSING

- 20 - gauge steel enclosure
- Junction Box: 4.68"W x 4.68"H x 2.22"D
- Door: 4.75"W x 4.75"H

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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12V or 24V AC Power Supply - 20W–40W

- Color: white powder coating
- Knockouts: 2

SECONDARY CIRCUIT PROTECTION

- Magnetic Circuit Breaker: 1
- Amps: 4A
  - NOTE: Breakers are sized to the feed load per N.E.C. Article 411

INCLUDED ITEMS

- Barrier Plate

TOROIDAL TRANSFORMER

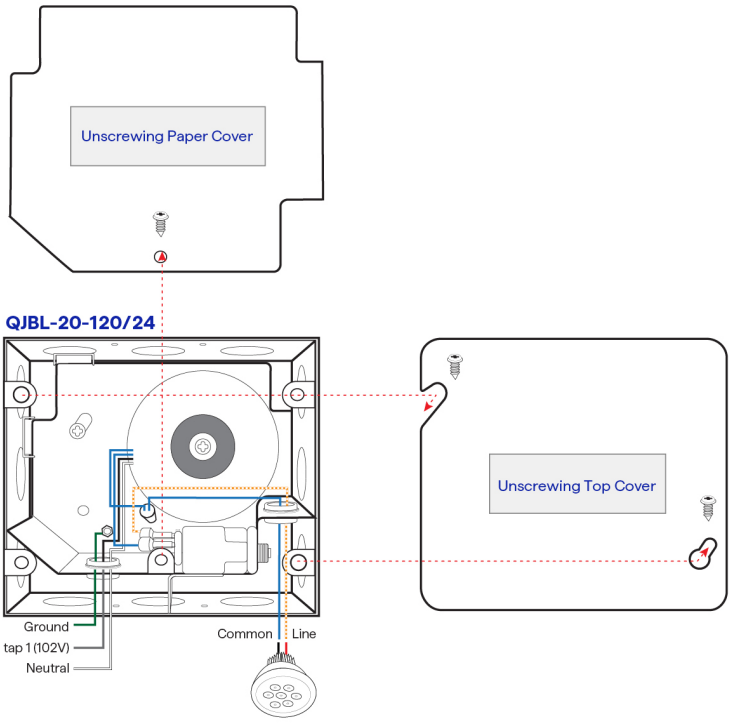
- Primary Taps: 1 or 3
- Output Voltages: 12V or 24V
  - NOTE: 20W Supplies have one tap and 40W supplies have 3 taps
- No derating required for incandescent and halogen loads
- 50% derating required for LED retrofit loads

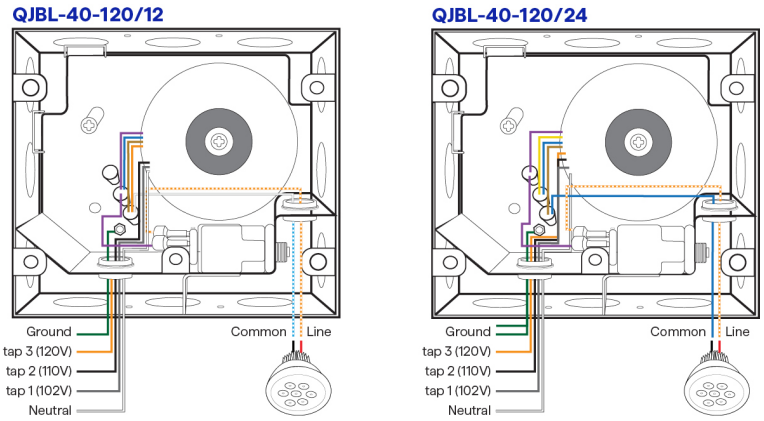
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WIRING DIAGRAM





COMPATIBLE WIRING ACCESSORIES



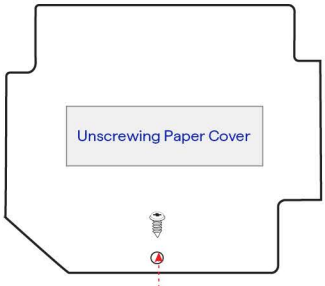
UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

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Installation Instructions

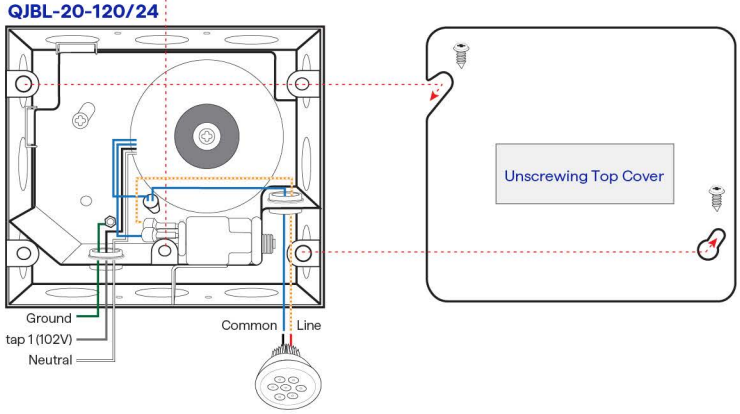
WIRING DIAGRAM



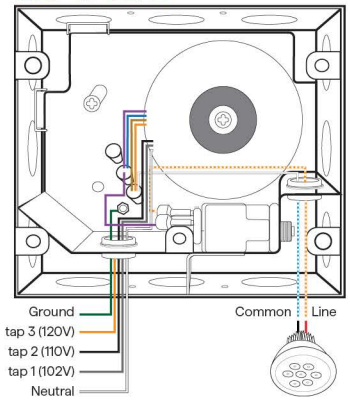
24V		12V	
Wire Type	**Wire Color**	**Wire Type**	**Wire Color**
LINE	Orange/White	LINE	Orange/White
COMMON	Blue	COMMON	Blue/White
NEU	White	NEU	White
GROUND	Green	GROUND	Green
TAP 1	Gray	TAP 1	Gray
TAP 2	Black	TAP 2	Black
TAP 3	Orange	TAP 3	Orange

NOTE: Wires may be solid or striped

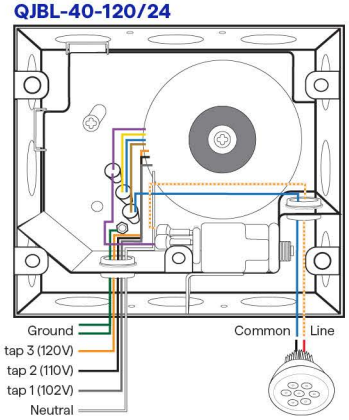
QJBL-20-120/24



QJBL-40-120/12



QJBL-40-120/24



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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.

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		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)
○	QJBL - 20	120 / 277	.324 / .140	60	12V / 24V	20W
○	QJBL - 40	120 / 277	.384 / .166	60	12V / 24V	40W

- **Type IC recessed, inherently protected**
  TYPE IC ENCASTRE, PROTECTION INHÉRENTE
- **For supply connections use wire rated for at least 75°C**
  LES FILS D'ALIMENTATION 75°C MIN.
- **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
- **Led class 2 control gear suitable for use in class 2 circuits**
  APPAREILLAGE DE COMMANDE LED DE CLASSE 2 ADAPTÉ À UNE UTILISATION DANS LES CIRCUITS DE CLASSE 2
- **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

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LOW VOLTAGE LIGHTING SYSTEM

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239924

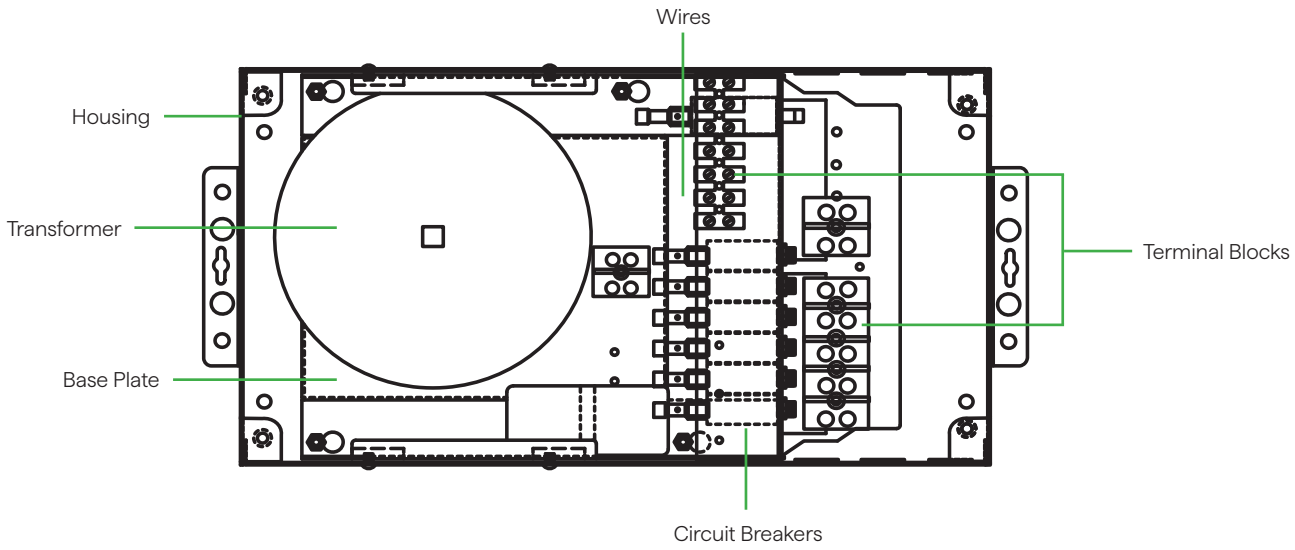
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MATERIAL RECYCLING

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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