

**QJBL**

12V or 24V AC Power Supply - 20W-40W

10 YEAR  
WARRANTY

- 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

Secondary tap connection

20W - 1 Tap

No Dimming

Load Wattage (W)	TAP 1, 12V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
20	430	270	170	107	67	42

Load Wattage (W)	TAP 1, 24V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
20	1719	1080	680	428	269	169

No dimming taps available for 20W. If dimming, increase size of transformer and wire gauge, and reduce distance to fixture to reduce voltage drop

40W

No Dimming

Load Wattage (W)	TAP 2, 12V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
40	215	135	85	53	34	21

Load Wattage (W)	TAP 3, 13V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
40	454	285	179	113	71	45

Load Wattage (W)	TAP 2, 24V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
40	860	540	340	214	134	85

Load Wattage (W)	TAP 3, 26V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
40	1815	1140	718	451	284	179

40W

With Dimming

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

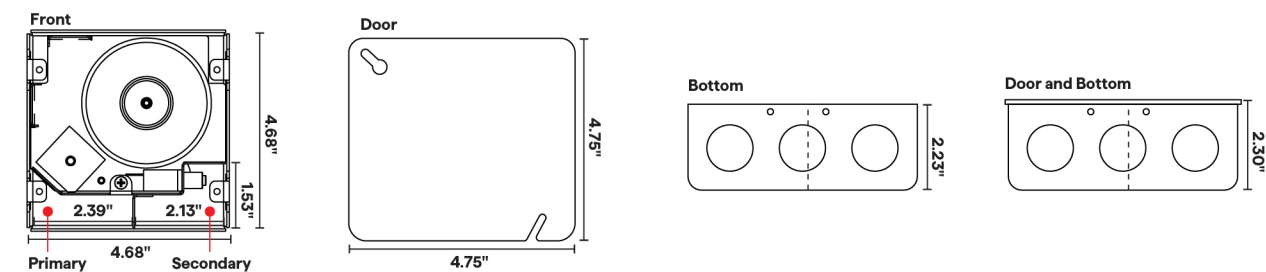
Load Wattage (W)	TAP 3, 13V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
40	215	135	85	53	34	21

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

Load Wattage (W)	TAP 3, 26V					
	8 AWG	10AWG	12AWG	14AWG	16AWG	18AWG
40	860	540	340	214	134	85

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PRODUCT - DIMENSIONS





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## 2 TECHNICAL INFORMATION

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

20W	1x20W	24V	0.324 A	0.140 A
40W	1x40W	24V	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
- Color: white powder coating
- Knockouts: 2

### PRIMARY CIRCUIT PROTECTION

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

### 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

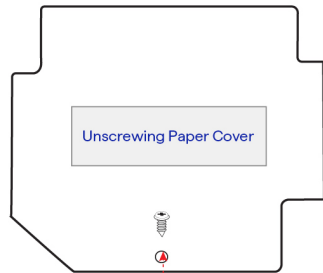
- Primary Taps: 1 or 3
- Output Voltages: 12V or 24V
  - NOTE: 20W Supplies have one tap and 40W supplies have 3 taps
- No derating required for incandescent and halogen loads
- 50% derating required for LED retrofit loads



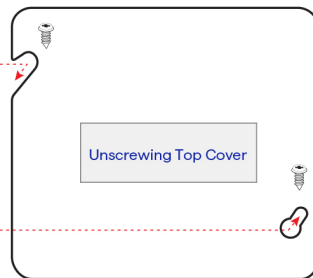
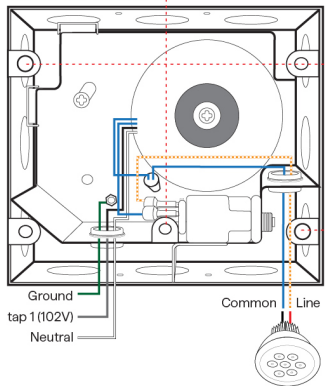
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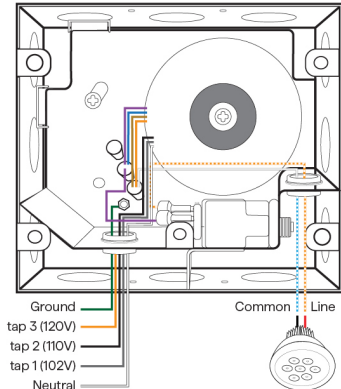
## WIRING DIAGRAM



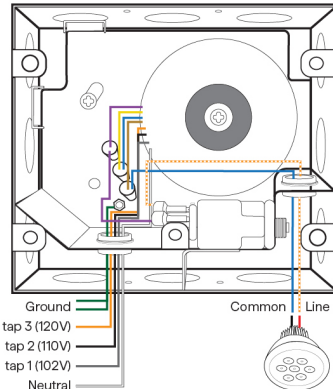
**QJBL-20-120/24**



**QJBL-40-120/12**



**QJBL-40-120/24**



## COMPATIBLE WIRING ACCESSORIES



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