QOM-PH

24V DC Power Supply - 80W-160W



- Constant voltage electronic power supply
- Compatible with a variety of third-party forward or reverse phase dimming modules
- If using for a pool and spa application, please see QOM-PH-PS documentation

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE	5 COLOR
QOM-PH		120V	24VDC	

Sample Part Number: **QOM-PH-80W-120V-24VDC-BK**

1 PRODUCT

QOM-PH

2 WATTAGE

80W
160W

3 PRIMARY VOLTAGE

120V

4 SECONDARY VOLTAGE

24VDC

5 COLOR

BK	Black Powder Coat Finish (Standard)
SS	316 Marine Grade Stainless Steel

COMPATIBLE LEDS

STATIC WHITE

SW24/1.5-4.0 SW-DR24/1.5-4.0 SHLD-SW24/1.5-4.0 SW-SCOB24/1.5-4.0	✓
SW24/5.0, SW-HE, SW-HE+ SW-DR24/5.0, SW-HE-DR SHLD-SW24/5.0, SHLD-SW-HE SW-SCOB24/5.0	✓
SW-SD24/1.0-4.0	✓
SW-SD24/6.0	✓
SW-IA	
SW-XT	✓

OTHER

DW-HE Tunable Applications	
DW-HE Warm Dim Applications	
WD	
SC	✓
RGB	
RGBW, RGBW-HE	

SHEETS

Q-SHEETS SW	
Q-SHEETS DW Tunable Applications	
Q-SHEETS DW Warm Dim Applications	
Q-SHEETS RGB	
Q-SHEETS RGBW	

MICRO 5

MICRO 5 SW	✓
MICRO 5 DW Tunable Applications	
MICRO 5 DW Warm Dim Applications	
MICRO 5 RGB	

PRODUCT INFORMATION

- Suitable for dry, damp and wet locations
- Suitable for indoor or outdoor use
- Wide dimmer compatibility-supports most phase type dimmers in the market
- Forward phase and reverse phase dimmer control or on/off
- Integral wiring compartments for reduced installation costs
- Active Power Factor Correction, PF>0.9
- Energy Star compliant
- Built-in protection:
  SCP (Short Circuit Protection)
  OTP (Over Temperature Protection)
  OVP (Over Voltage Protection)
  OCP (Over Current Protection)
- Completely potted design, no venting required
- Operating temperature range: -40 to +140 °F
- Constant Voltage
- 5 year warranty
- CSA #239924
- Low Voltage Lighting Systems
  - ANSI/ UL Standard 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products
- Landscape Lighting Systems
  - ANSI/ UL Standard 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products

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VOLTAGE DROP CHART

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

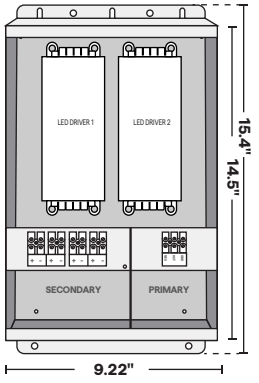
VOLTAGE DROP

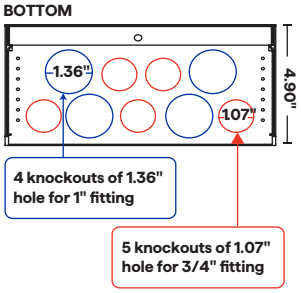
Distance from PS for 1% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	192	121	76	48	30	19	12	7	5
24	30	96	60	38	24	15	9	6	4	2
24	45	64	40	25	16	10	6	4	2	2
24	60	48	30	19	12	8	5	3	2	1
24	80	36	23	14	9	6	4	2	1	1

Distance from PS for 3% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	577	362	228	143	90	57	36	22	14
24	30	288	181	114	72	45	28	18	11	7
24	45	192	121	76	48	30	19	12	7	5
24	60	144	91	57	36	23	14	9	6	4
24	80	108	68	43	27	17	11	7	4	3

Distance from PS for 5% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	961	604	380	239	150	95	59	37	24
24	30	480	302	190	120	75	47	30	19	12
24	45	320	201	127	80	50	32	20	12	8
24	60	240	151	95	60	38	24	15	9	6
24	80	180	113	71	45	28	18	11	7	4

1 PRODUCT - DIMENSIONS





2 TECHNICAL INFORMATION

Wattage	Max Load (Watts)	Secondary Voltage
80W	1x80W	24VDC
160W	2x80W	24VDC

HOUSING

- 18 gauge welded steel enclosure: 15.4"L x 9.22"W x 4.90"D
- Door: 14.5"L x 9.27"W
- Knockouts: 9
- Built-in support bracket incorporated to secure housing for surface mounting

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QOM-PH

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SPECIFICATIONS

Input	Min	Nom	Max
Voltage (RMS)	100	120	130
Frequency (Hz)	47	50/60	63
Power Factor	0.9	-	-

Output	Min	Nom	Max
Line Regulation (%)	-10	-	10
Load Regulation (%)	-	-	5

Environmental	Min	Nom	Max
Storage Temperature (°C)	-40	-	85
Operating Temperature	-40	-	60
Relative Humidity (%)	5	-	95
MTBF (Hours @ 25°C (77°F) Full Load)	80,000	-	-

Expected Lifetime	Temp
50,000 hours	65°C
30,000 hours	75°C

PROTECTIONS

- Short Circuit Protection (SCP)
- Over Voltage Protection (OVP)
- Over Current Protection (OCP)
- Over Temperature Protection (OTP)
- Hiccup-Mode, Auto-Recovery upon removal of short
- 105% of Voltage (typ) Min

COMPLIANCE

- EMI Spec
  - CISPR-22 Class B
  - FCC part 15 Class B
  - EN55015, EMC
- CSA Certified
  - UL-2108
  - UL-1838
  - UL-8750
  - UL-379
  - CSA C22.2 No 250.7-07
  - CSA C22.2 No 250.0-08
  - CSA C22.2 No 250.13-14
  - CSA C22.2 No. 89-15
  - CE(IEC/EN61347-1, IEC/EN61347-2-13)

5 COLOR



Black Powder Coat Finish (Standard)

316 Marine Grade Stainless Steel

SUPPORTED DIMMING LIST 90~120V AC ELV (REVERSE PHASE) & TRIAC (FORWARD PHASE) DIMMER

NOTE: * -5-100% dimming range.
Flicker tests were carried out to ensure full range, flicker-free dimming from min to full load.
This is a representative list of dimmers only. QTL makes no specific recommendation on product selection and there are no warranties of performance or compatibility implied. Refer to dimmer manufacturers for further information on LED compatibility. Lutron and their product brand names are registered trademarks.

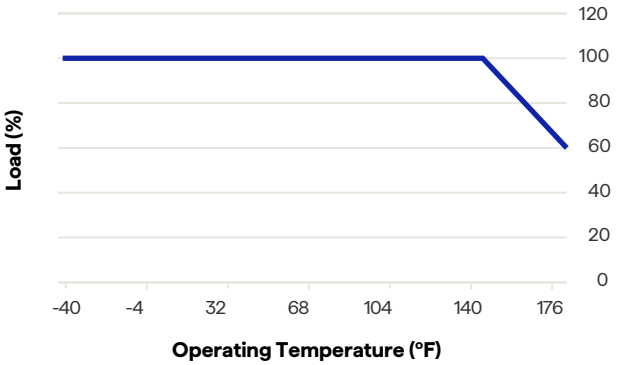
Brand	Model	Dimming Rating Power (max)	LED Flicker Free Test
Lutron	DVCL-153PL (C/L)	600W	Pass
Lutron	TGCL-153P (C/L)	600W	Pass
Lutron	AB-600M-WH (Abella)	600W	Pass*
Lutron	D-600RH-DK (Rotary)	600W	Pass
Lutron	D-600R-WH (Rotary)	600W	Pass
Lutron	D-603PG-WH (Rotary)	600W	Pass
Lutron	GL-603PH-DK (GLYDER-3-way)	600W	Pass
Lutron	GL-600-WH (Glyder)	600W	Pass*
Lutron	MA-600GH-WH (Ecodim Digital with indicator leds)	500W	Pass*
Lutron	MIR-600THW-WH (RC Digital Fade Dimmer)	600W	Pass
Lutron	MS-VP600GHW-WH (Vacancy Sensor w/eco-dim Dimmer)	600W	Pass*
Lutron	S-600PH-WH (SKYLARK)	600W	Pass
Lutron	SELV-300PH-WH (SKYLARK-Single Pole)	300W	Pass
Lutron	TG-600PH-WH (Toggler)	600W	Pass
Lutron	TG-603PFH-WH (Toggler-eco-dim)	600W	Pass
Lutron	TT-300NLH-BL	600W	Pass
Cooper Wiring Devices	RI061-A (Rotary Dimmer w/ Non-Present)	600W	Pass
Cooper Wiring Devices	6001	600W	Pass
Cooper Wiring Devices	SLC03P (C/L)	600W	Pass
Cooper Wiring Devices	SI06P (non C/L)	600W	Pass
GE	DI61-271	600W	Pass
GE	DIB61-71	600W	Pass
GE	DIT61-71	600W	Pass
GE	DIT61-S71	600W	Pass
Legrand	V8051	600W	Pass

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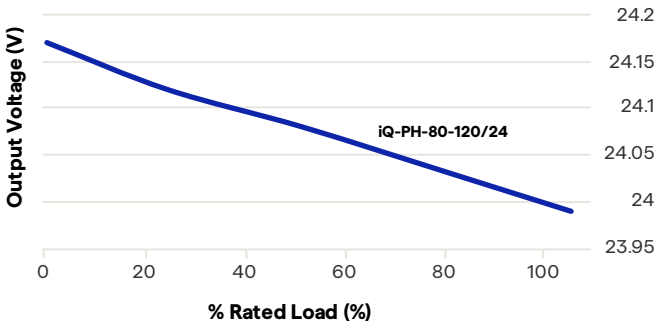
QOM-PH

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Derating Curve



Output Voltage Vs. Load



COMPATIBLE WIRING ACCESSORIES

Q-mini-J



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

CON120-EXT



10ft Con cable extender
DRY/DMP/WET

CON FOUR-FER



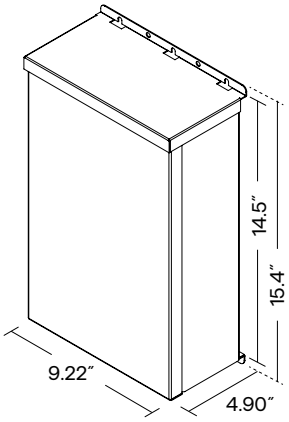
Splits lead from one to four LED Con connectors
DRY/DMP/WET

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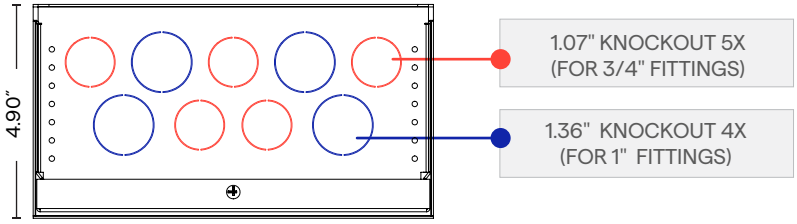
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Installation Instructions

Housing

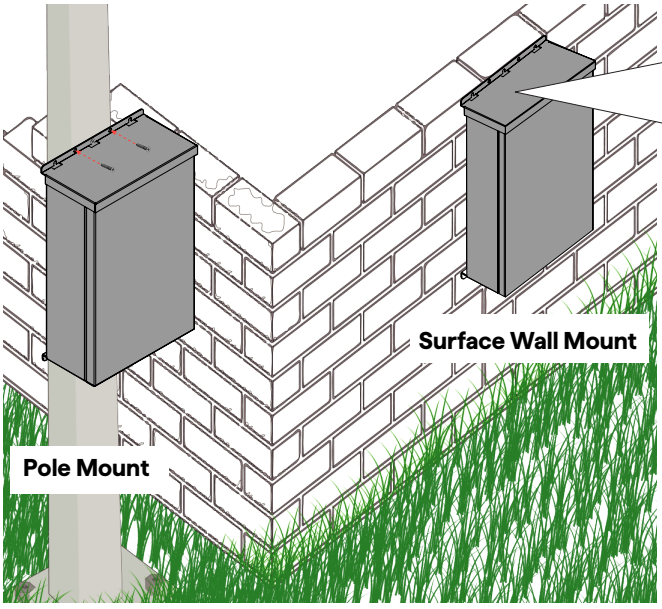


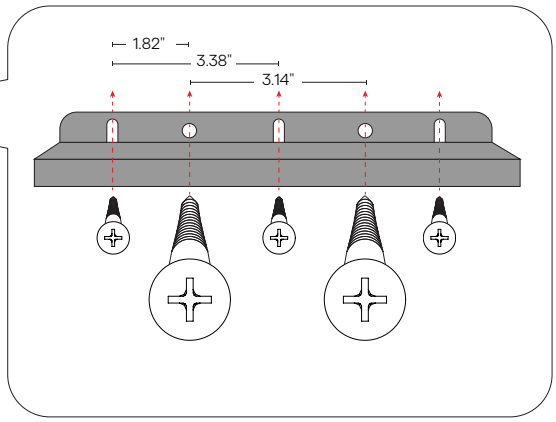
ISOMETRIC VIEW

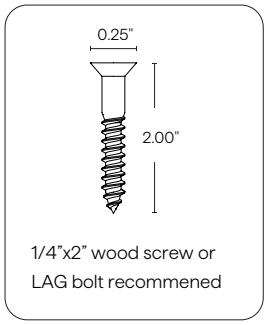


BOTTOM VIEW

Mounting Options







NOTE:

- To order additional lengths of wire for connection in the secondary. Please call factory for availability.
- QOM must be installed as shown.

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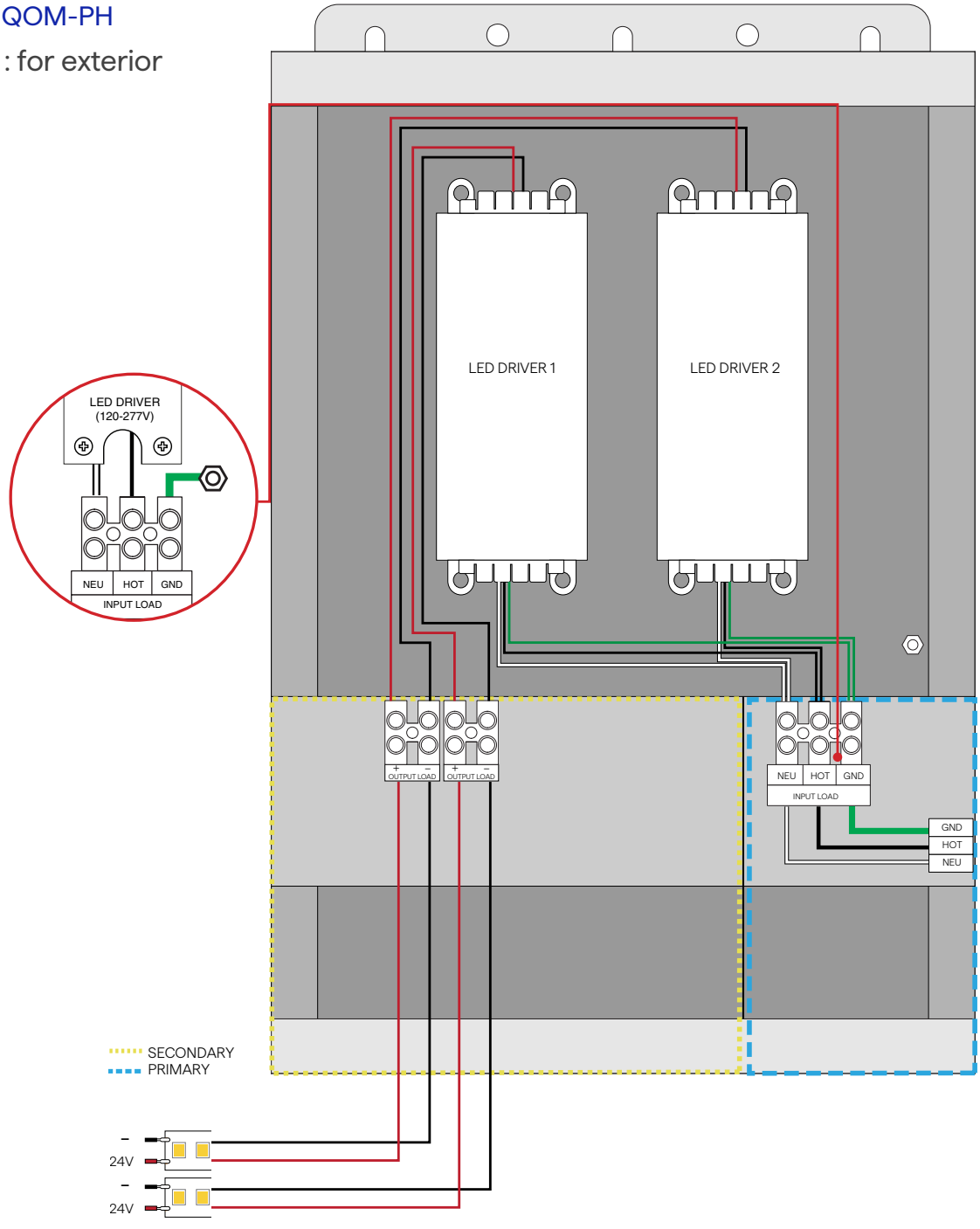
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Installation Instructions

Driver with No Dimming Module

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: for exterior



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QOM-PH

Installation Instructions

CSA Requirements

- Suitable for indoor and outdoor 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.

QOM-PH		INPUT VOLTAGE		OUTPUT VOLTAGE		WIRE CONNECTION
		○ 120V		○ 24V		Red = +24V Black = -
Model	Input Voltage (V)	Input Current (A)	Frequency	Nominal Output Voltage (VDC)	Nominal Output Wattage (W)	
○ QOM-PH-80	120	1.10	50/60	24	80	
○ QOM-PH-160	120	2.20	50/60	24	160	

- Suitable for indoor or outdoor use
  CONVIENT POUR UNE UTILISATION INTÉRIEURE OU EXTÉRIEURE
- Wall mount only
  INSTALLATION MURALE SEULEMENT
- Suitable for mounting within 1.2m (4ft) of the ground
  PEUT ÊTRE INSTALLÉ À MOINS DE 1.2 M (4 PI) DU SOL
- Do not submerse
  NE PAS IMMERGER
- Suitable for wet locations
  CONVIENT AUX EMPLACEMENTS MOUILLÉ
- Not for use with dimmers
  NE PAS UTILISER AVEC DES GRADATEURS
- For supply connections use wire rated for at least 60°C
  POUR LES CONNEXIONS D'ALIMENTATION, UTILISEZ UN FIL ÉVALUÉ AU MOINS À 60°C.
- Keep enclosure cover closed
  GARDEZ LE COUVERCLE DU BOÎTIER FERMÉ
- Read installation instructions before wiring
  LIRE LES INSTRUCTIONS D'INSTALLATION AVANT LE CÂBLAGE
- Class 2
  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.

WARNING: RISK OF FIRE

IF INSTALLATION INVOLVES RUNNING WIRE THROUGH A BUILDING STRUCTURE, SPECIAL WIRING METHODS ARE NEEDED. CONSULT A QUALIFIED ELECTRICIAN.

RISQUE D'INCENDIE. SI L'INSTALLATION IMPLIQUE UN FIL DE COURANT À TRAVERS UNE STRUCTURE DE BÂTIMENT, DES MÉTHODES DE CÂBLAGE SPÉCIALES SONT NÉCESSAIRES. CONSULTEZ UN ÉLECTRICIEN QUALIFIÉ.

CAUTION:

ONLY USE THE MAXIMUM WATT LAMP LOAD THAT IS INDICATED BY THE MODEL NUMBER.

UTILISEZ UNIQUEMENT LA CHARGE MAXIMALE DE LA LAMPE INDIQUÉE PAR LE NUMÉRO DE MODÈLE.

QTL
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LOW VOLTAGE LIGHTING SYSTEM & LED LANDSCAPE LIGHTING SYSTEM

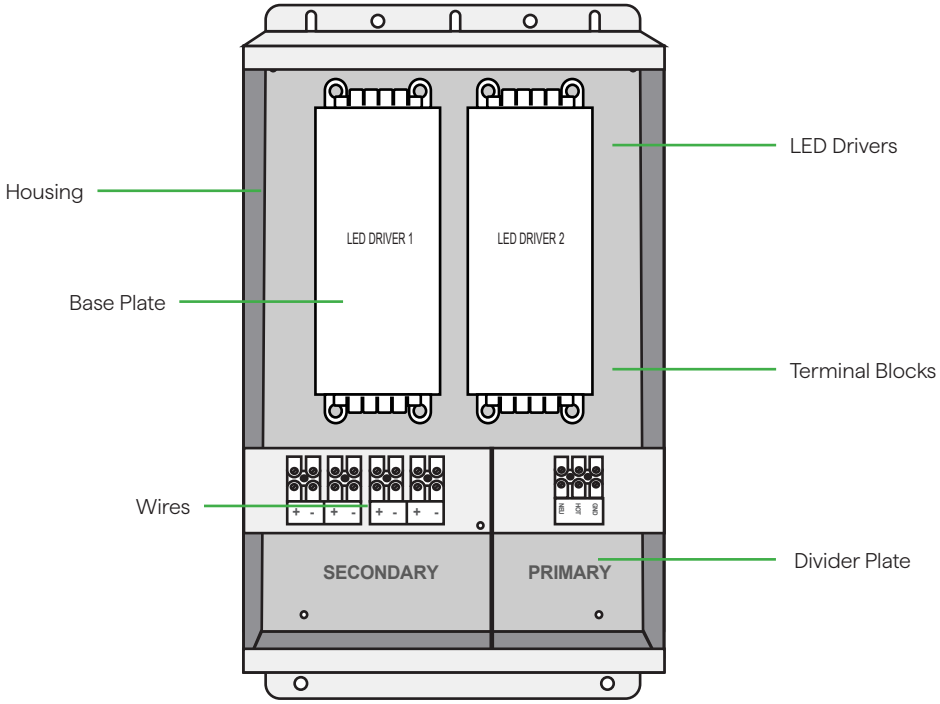
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MATERIAL RECYCLING

QOM-PH

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

LED Drivers
Dimming Modules
Wires

40

Housing
Base Plate
Dimming Module Plate
Divider Plate

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