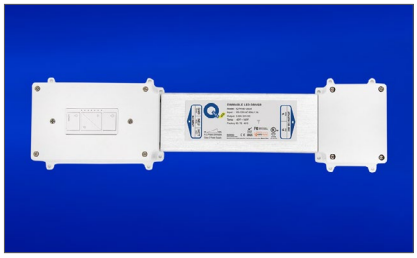
iQ-PH+QD1

24V DC Power Supply - 80W



- Phase controlled driver with built in RF dimmer
- Perfect for retrofit applications and applications where you want the ability to dim your led products, without the need to install a wall box dimmer
- A driver-dimmer combination, designed to be mounted out of site and controlled via remote or smart phone/tablet (smart phone and tablet apps provided by 3rd party)

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE	5 TYPE	6 DIM	7 OPTIONS
iQ-PH	80W	120V	24VDC	QD1		

Sample Part Number: **iQ-PH-80W-120V-24VDC-QD1-CP-C&P**

1 PRODUCT

iQ-PH

2 WATTAGE

80W

3 PRIMARY VOLTAGE

120V

4 SECONDARY VOLTAGE

24VDC

5 TYPE

QD1

6 DIM

ND	No Dimmer
CP	Caseta Pro (PD-10NXD)
MS	Maestro (MRF2-6ELV-120)

7 OPTIONS

C&P	Cord & Plug
N/A	

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

- Integral wiring compartments for reduced installation costs
- Active Power Factor Correction, PF>0.9
- Energy Star compliant
- Completely potted design, no venting required
- Operating temperature range: -40 to +60°C (-40 to +140 °F)
- Constant voltage
- 5 year warranty

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iQ-PH+QD1

24V DC Power Supply - 80W

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

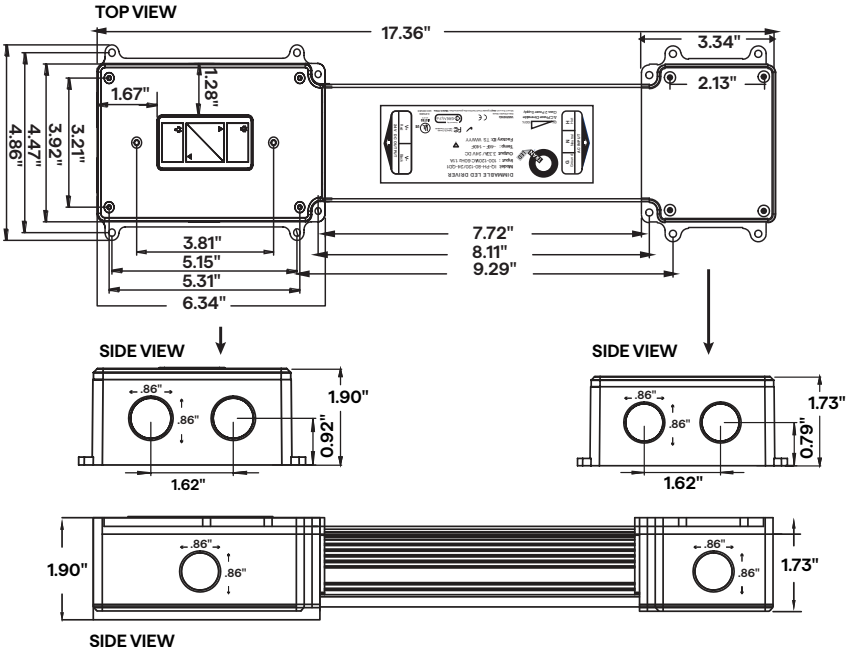
VOLTAGE DROP

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



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iQ-PH+QD1

24V DC Power Supply - 80W

2 TECHNICAL INFORMATION

NOTE: The LED drivers provide a constant voltage output for operating LED systems requiring 24VDC

MODEL #	CHANNEL OUTPUT	OUTPUT					MAX OUTPUT POWER PER CHANNEL (W)	RATED OUTPUT POWER
100-120VAC INPUT		VOUT (VDC)	Loading Current (w/dimmer) per channel (A)		Loading Current (w/out) per channel (A)			
			MIN	MAX	MIN	MAX		MAX
iQ-PH-80-120/24-QD1	1	24	1.16	3.30	0.17	3.30	79.2	80

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

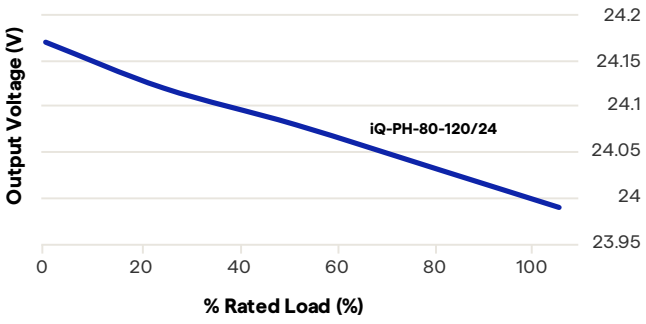
PROTECTIONS

- 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/SAFETY

- EMI/RFI
  - ISPR-22 Class B
  - FCC part 15 Class B
  - EN55015, EMC
- Safety
  - UL 1012, 1310 Class 2, 8750, 879
  - CSA C22.2 NO. 107.1
  - CE (IEC/EN61347-1, IEC/EN61347-2-13)

Output Voltage Vs. Load



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iQ-PH+QD1

24V DC Power Supply - 80W

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 M - BARREL F



Male con to barrel cable adaptor
DRY/DMP

CON FOUR-FER



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

BARREL FOUR-FER



Splits lead from one to four LED Barrel connector fixtures, DRY/DMP

BARREL-EXT



8ft barrel cable extender
DRY/DMP

BARREL M - CON F



Male Barrel to Con cable adaptor
DRY/DMP

COMPATIBLE CONTROL ACCESSORIES

SCENE APP DONGLE

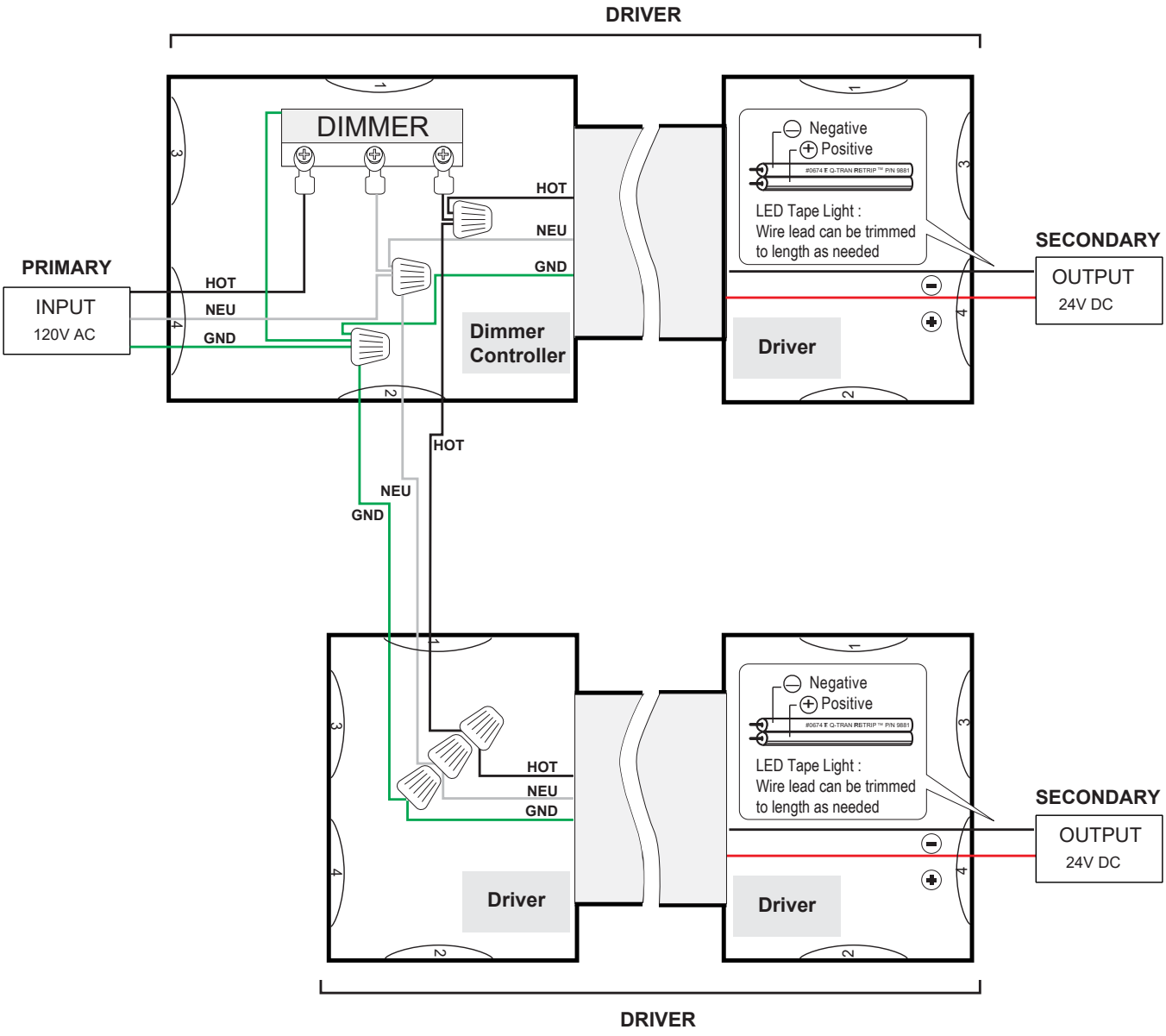


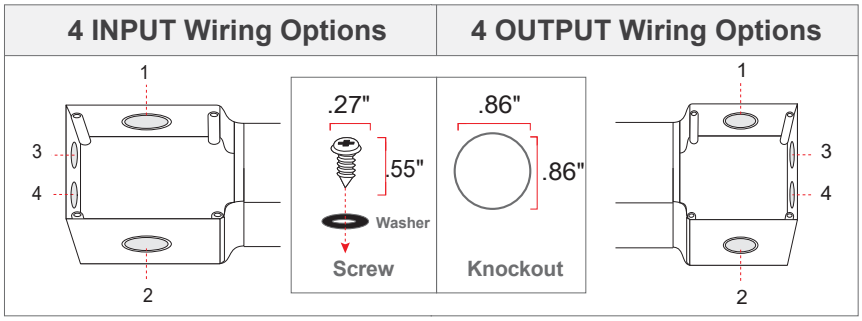
Wi-Fi or Bluetooth Connectivity

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iQ-PH-QD1

Installation Instructions





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Specification subject to change. Rev-03-08-24

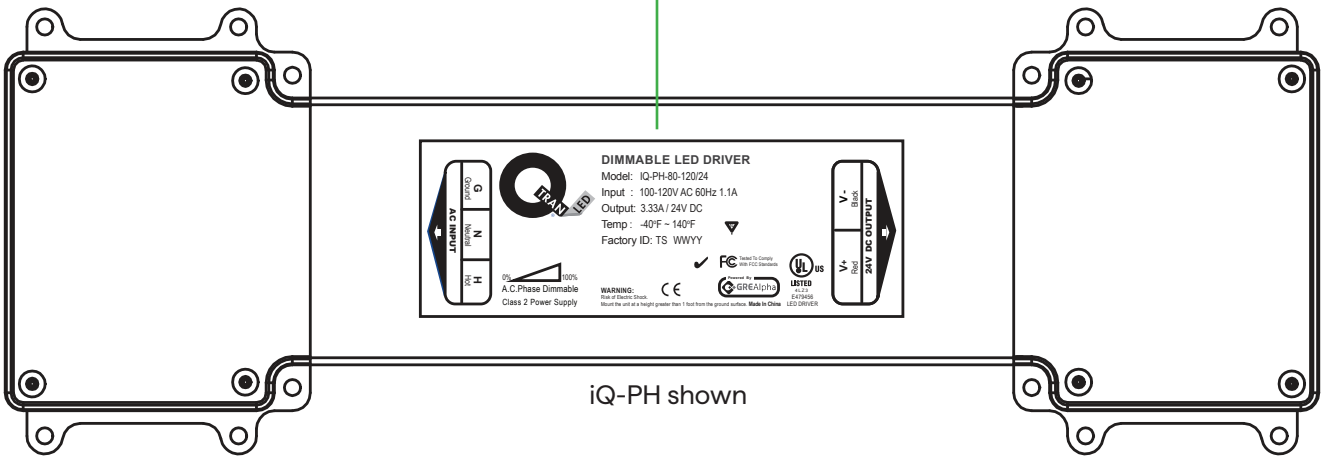
MATERIAL RECYCLING

iQ-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.

LED Driver



iQ-PH shown

E

LED Drivers

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