QOM-PH-PS

24V DC Power Supply - 80W-160W



- Constant voltage electronic power supply compatible with a variety of third-party forward or reverse phase dimming modules
- Indoor and outdoor rated with an additional option to be used in pool & spa applications
- This surface mountable power supply comes standard in black and is also available in stainless steel
- UL and Class II Listed

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

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

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE	5 COLOR
QOM-PH-PS	**80W** **160W**	**120V**	**24VDC**	**BK** Black Powder Coat Finish (Standard) **SS** 316 Marine Grade Stainless Steel

PRODUCT INFORMATION

- Suitable for dry, damp and wet locations
- Suitable for indoor or outdoor use
- Suitable for pool and spa application
- Fits up to (2) 80W 24VDC drivers
- 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
  - CSA Class 3425-15 and Class 3425-95
  - CSA Standard C22.2 No. 250.0-08 - Luminaires
  - ANSI/ UL Standard 2108 - Low Voltage Lighting System
  - ANSI/ UL Standard 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products
  - CSA Std C22.2 No 250.13-14 - Light Emitting Diode (LED) Equipment for Lighting Applications
- Landscape Lighting Systems
  - CSA Class 3402-15 and Class 3402-95
  - CSA Standard C22.2 No. 250.7-07 - Extra-Low-Voltage Landscape Lighting Systems
  - ANSI/ UL Standard 1838 - Low Voltage Landscape Lighting Systems
  - ANSI/ UL Standard 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products
  - CSA Std C22.2 No 250.13-14 - Light Emitting Diode (LED) Equipment for Lighting Applications
- Hydromassage (Pool and Spa)
  - CSA Class 3425-46 and class 3425-96
  - UL Standard 379 - Power Unit for Fountain, Swimming Pool and Spa Luminaires
  - CSA STD C22.2 NO.89-15-Swimming Pool Luminaire, Submersible Luminaires and Accessories

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QOM-PH-PS

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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

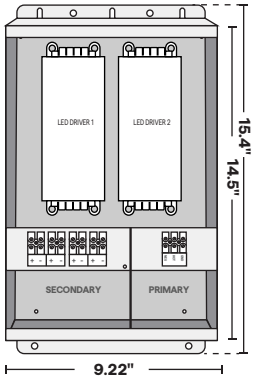
VOLTAGE DROP

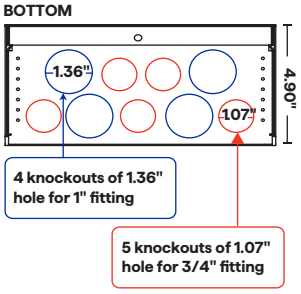
Distance from PS for 1% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	192	121	76	48	30	19	12	7	5
24	30	96	60	38	24	15	9	6	4	2
24	45	64	40	25	16	10	6	4	2	2
24	60	48	30	19	12	8	5	3	2	1
24	80	36	23	14	9	6	4	2	1	1

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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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/RFI
  - 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.

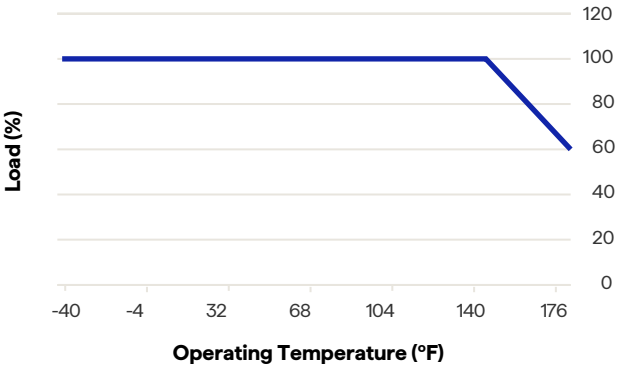
Brand	Model	Dimming Rating Power (max)	LED Flicker Free Test
Lutron	DVCL-153PL (C/L)	600W	Pass
Lutron	TGCL-153P (C/L)	600W	Pass
Lutron	AB-600M-WH (Abella)	600W	Pass*
Lutron	D-600RH-DK (Rotary)	600W	Pass
Lutron	D-600R-WH (Rotary)	600W	Pass
Lutron	D-603PG-WH (Rotary)	600W	Pass
Lutron	GL-603PH-DK (GLYDER-3-way)	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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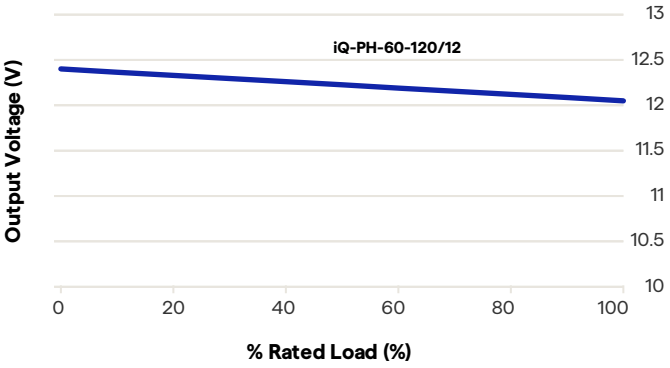
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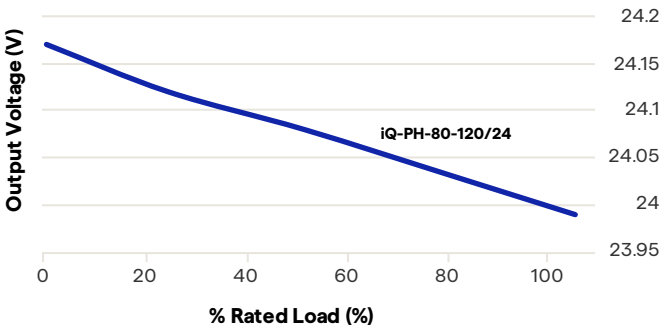
Derating Curve



Output Voltage Vs. Load



Output Voltage Vs. Load



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