QOM-eLED+0-10V-PS

12V or 24V DC Power Supply - 60W–400W



- Surface mount, exterior rated LED power supply center.
- Utilizes UL Class 2 drivers with optional 0-10V dimming modules.
- Designed for powering 12VDC or 24VDC constant voltage products.
- Ideal for 0-10V or on/off applications.
- 0-10V dimming provides PWM to the fixture for smooth dimming.
- UL listed enclosure can accommodate 1-4 drivers and 1-4 dimming modules.
- Provides plenty of flexibility and comes with all modules prewired together with terminal blocks for landing your LED and control wires.
- Suitable for both indoor and outdoor use, and it has the additional option to be used in pool & spa applications.

ORDERING PROCESS

A Specify housing

B Specify power supply tray details

A. HOUSING

A1 PRODUCT	A2 COLOR
QT-CAB	

B. POWER SUPPLY TRAY DETAILS

B1 PRODUCT	B2 WATTAGE	B3 PRIMARY VOLTAGE	B4 SECONDARY VOLTAGE	B5 CONTROL	B6 ASSEMBLY	B7 CORRELATED HOUSING COLOR
QOM-eLED-PS				0-10V		

Sample Part Number: **QOM-eLED-PS-60W-UNV-12VDC-0-10V-BK**

A1 PRODUCT

QOM	

A2 COLOR

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

B1 PRODUCT

QOM-eLED-PS	

B2 WATTAGE

60W	1 60W Driver
120W	2 60W Drivers
180W	3 60W Drivers
100W	1 100W Driver
200W	2 100W Drivers
300W	3 100W Drivers
400W	4 100W Drivers

B3 PRIMARY VOLTAGE

UNV	Universal (120-277V)
UNV	Universal (120-277V)

B4 SECONDARY VOLTAGE

12VDC
24VDC

B5 CONTROL

0-10V

B6 ASSEMBLY

FA	Factory Assembled
NI	Not Installed

Select NI to receive the housing before the power supply tray ships.

B7 CORRELATED HOUSING COLOR

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

PRELIMINARY SUBJECT TO CHANGE

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QOM-eLED+0-10V-PS

12V or 24V DC Power Supply - 60W–400W

PRODUCT INFORMATION

- Limited output voltage and current, plus isolation for safe operation
- Dimmable 0.1%-100% with additional 0-10V dimming module
- Fully potted driver(s) for moisture resistance
- Surface mount, exterior rated LED power supply center
- Suitable for use with submersible luminaires
- Suitable for pool and spa application
- Primary voltage - universal (120-277V)
- Wide operating temperature range: -40˚F to 104˚F
- Fits up to (3): 60W 12VDC or (4): 100W 24VDC driver(s) and 0-10V dimming module(s) in the same housing
- 5-year warranty
- Driver has Class A sound rating
- Class 2 output
- 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
  - Compliant to FCC Part 15B
- 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

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. If dimming with optional 0-10V dimming module, use a dimmer rated for 0-10

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QOM-eLED+0-10V-PS

12V or 24V DC Power Supply - 60W–400W

VDC	Load (W)	Distance from PS for 1% Voltage Drop								
		10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	17	170	107	67	42	27	17	11	7	4
	25	115	73	46	29	18	11	7	5	3
	40	72	45	29	18	11	7	5	3	2
	80	36	23	14	9	6	4	2	1	1
	100	29	18	11	7	5	3	2	1	1
VDC	Load (W)	Distance from PS for 3% Voltage Drop								
		10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	17	509	320	201	127	80	50	32	20	13
	25	346	218	137	86	54	34	21	14	9
	40	216	136	86	54	34	21	13	8	5
	80	108	68	43	27	17	11	7	4	3
	100	87	54	34	22	14	9	5	3	2
VDC	Load (W)	Distance from PS for 5% Voltage Drop								
		10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	17	509	320	201	127	80	50	32	20	13
	25	346	218	137	86	54	34	21	14	9
	40	216	136	86	54	34	21	13	8	5
	80	108	68	43	27	17	11	7	4	3
	100	87	54	34	22	14	9	5	3	2

VDC	Load (W)	Distance from PS for 1% Voltage Drop								
		10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
12	12	120	76	48	30	19	12	7	5	3
	25	58	36	23	14	9	6	4	2	1
	60	24	15	10	6	4	2	2	1	1
VDC	Load (W)	Distance from PS for 3% Voltage Drop								
		10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
12	12	360	227	143	90	56	36	22	14	9
	25	173	109	68	43	27	17	11	7	4
	60	72	45	29	18	11	7	5	3	2
VDC	Load (W)	Distance from PS for 5% Voltage Drop								
		10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
12	12	601	378	238	149	94	59	37	23	15
	25	288	181	114	72	45	28	18	11	7
	60	120	76	48	30	19	12	7	5	3

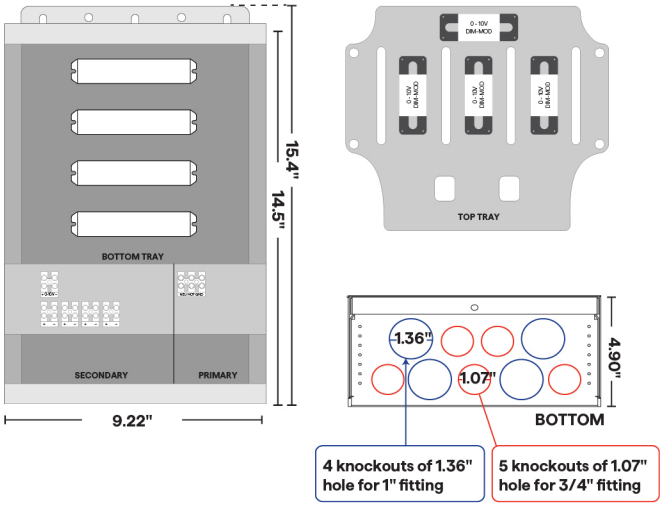
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QOM-eLED+0-10V-PS

12V or 24V DC Power Supply - 60W–400W

A1 PRODUCT - DIMENSIONS



B2 TECHNICAL INFORMATION

Wattage	Max Load (Watts)	Secondary Voltage	Max Prim Amps @ 120V	Max Prim Amps @ 277V
60W	1x60W	12VDC	0.60A	0.29A
120W	2x60W	12VDC	1.20A	0.58A
180W	3x60W	12VDC	1.80A	0.87A
100W	1x100W	24VDC	0.95A	0.40A
200W	2x100W	24VDC	1.90A	0.80A
300W	3x100W	24VDC	2.85A	1.20A
400W	4x100W	24VDC	3.80A	1.60A

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

PERFORMANCE

- Rated for surface mount or outdoor use
- Fully rated to operate low voltage load at listed wattage (No derating required)
- Voltage regulation to 2% or less of rated output voltage
- The ability to be dimmed using 0-10V dimming
- Universal input range of 120-277 Vrms
- Low Voltage Lighting Systems
  - CSA Class 3425-15 and Class 3425-95
- LED Landscape Lighting System Components
  - CSA Class 3402-15 and Class 3402-95
- Hydromassage (Pool & Spa)
  - CSA Class 3425-46 and Class 3425-96
  - Short circuit protection (SCP)
  - Over voltage protection (OVP)
  - Over current protection (OCP)
  - Live tested by the manufacturer to ensure proper operation
- Terminal blocks are made of tin plated copper with a voltage rating of 300V and a current rating of 40A

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QOM-eLED+0-10V-PS

12V or 24V DC Power Supply - 60W–400W

SPECIFICATIONS

Input	12VDC			24VDC		
Input Voltage (Vrms)	120	230	277	120	230	277
Input Current, max (Arms)	0.58	0.30	0.25	0.98	0.51	0.42
Inrush Current, max* (Apk)	-	-	-	45	90	100
Input Frequency (Hz)	50/60			50/60		
Input Power (Wmax)	70			117		

Output	12VDC	24VDC
Output Voltage, nom (V)	12	24
Output Current (A)	5.0	4.1
Output Power (Wmax)	60	100
Dimming 0-10V, max	2mA	

Environmental	Min	Nom	Max	Min	Nom	Max
THD (%)	-	-	20	-	-	20
PF (%)	0.90	-	-	0.90	-	-
Case Temp (°F)	-	-	90	-	-	90

*-200us event

PROTECTIONS

- Short Circuit Protection
  (SCP)Over Voltage Protection
  (OVP)Over Current Protection
  (OCP)Class 2 Output

A2 COLOR



Black Powder Coat Finish (Standard)

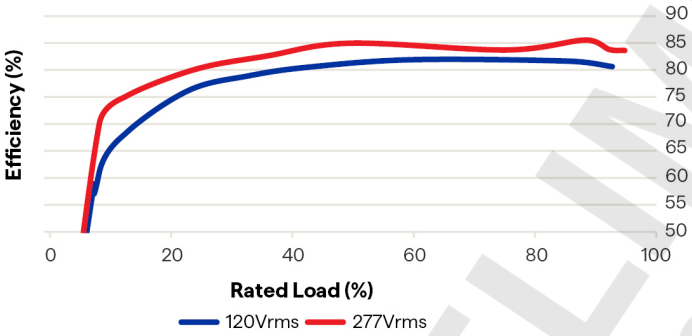
316 Marine Grade Stainless Steel

COMPLIANCE

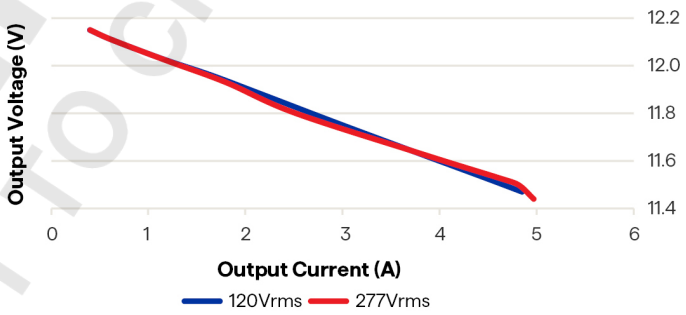
- EMI Spec
  - FCC 47 Part 15
  - FCC 47 CFR Part 15 Subpart B
  - EN61000-3-2
- CSA Certified
  - UL-2108
  - UL-1838
  - UL-8750
  - UL 379
  - CSA C22.2 No 250.7-07
  - CSA C22.2 No 250.0-08
  - CSA C22.2 No 250.13-14
  - CSA C22.2 No 89-15

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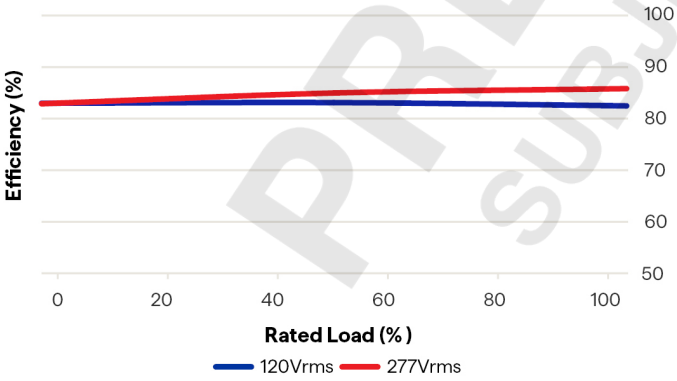
Efficiency, 12VDC



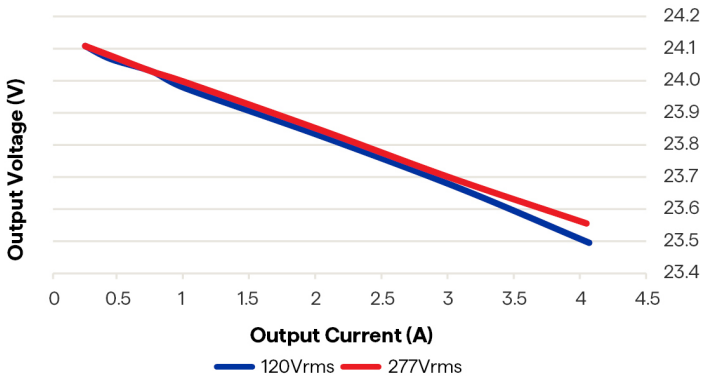
Vout vs. Iout, 12VDC



Efficiency, 24VDC



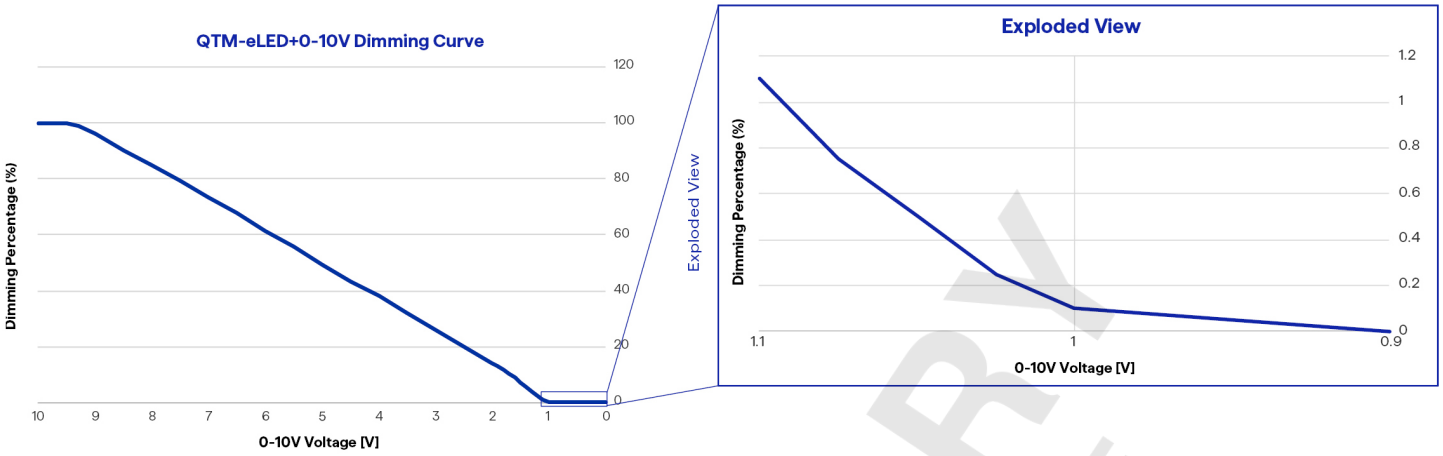
Vout vs. Iout, 24VDC

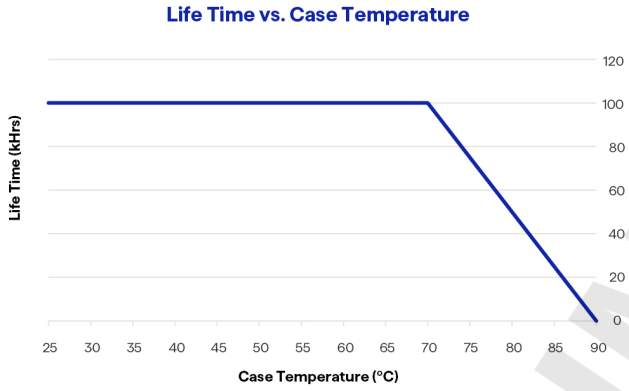


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QOM-eLED+0-10V-PS

12V or 24V DC Power Supply - 60W–400W

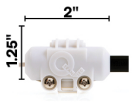




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COMPATIBLE WIRING ACCESSORIES

Q-mini-J



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

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