



QOM-eLED+DMX-PS

24V DC Power Supply - 100W-300W



- Utilizes a 100W constant voltage LED Driver from Thomas Research and the LINEARdrive DMX decoder from eldoLED.
- Capable of handling up to 300W of power and control within a single enclosure, offering flexibility in lighting applications.
- All decoders are prewired together with terminal blocks, making installation easier.
- The QOM-eLED is suitable for both indoor and outdoor use, and it has the additional option to be used in pool & spa applications.
- Designed to accommodate RGB or RGBW wires for versatile lighting options.

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE	5 CONTROL	6 COLOR
QOM-eLED-PS		UNV	24VDC	DMX	

Sample Part Number: QOM-eLED-PS-100W-UNV-24VDC-DMX-BK

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE
QOM-eLED-PS	100W 200W 300W	UNV Universal (120-277V)	24VDC
5 CONTROL	6 COLOR		
DMX	BK SS Black Powder Coat Finish (Standard) 316 Marine Grade Stainless Steel		

COMPATIBLE LEDS

STATIC WHITE

SW24/1.5-4.0	
SW24/5.0, SW-HE, SW-HE+	
SD-SW24/1.0-4.0	
SD-SW24/6.0	
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	✓

If using DW LED, wattage must be doubled

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PRODUCT INFORMATION

- Limited output voltage and current, plus isolation for safe operation
- Controllable with DMX decoder module
- Control 4 LED channels with DMX
- DMX dimming down to 0.1%
- Fully potted driver(s) for moisture resistance
- Primary voltage - universal (120-277V)
- Wide operating temperature range: -4°F to 122°F
- Fits up to (3):100W 24 VDC driver(s) and DMX decoder module(s)
- 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
- 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

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	848	533	336	211	133	84	53	33	21
	25	577	363	228	143	90	57	36	22	14
	40	360	227	143	90	56	36	22	14	9
	80	180	113	71	45	28	18	11	7	4
	100	144	91	57	36	23	14	9	6	4

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

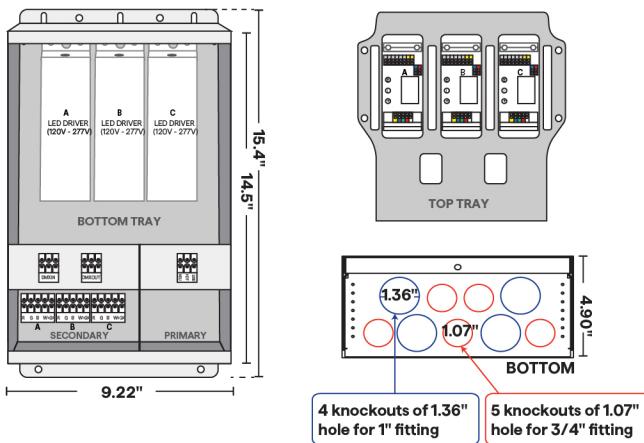
VDC	Load (W)	Distance from PS for 1% Voltage Drop								
		10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	17	170	107	67	42	27	17	11	7	4
	25	115	73	46	29	18	11	7	5	3
	40	72	45	29	18	11	7	5	3	2
	80	36	23	14	9	6	4	2	1	1
	100	29	18	11	7	5	3	2	1	1



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1 PRODUCT - DIMENSIONS



2 TECHNICAL INFORMATION

Wattage	Max Load (Watts)	Secondary Voltage	Max Prim Amps @ 120V	Max Prim Amps @ 277V
100W	1x100W	24VDC	0.95A	0.40A
200W	2x100W	24VDC	1.90A	0.80A
300W	3x100W	24VDC	2.85A	1.20A

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, 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 DMX 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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SPECIFICATIONS

Input	24VDC		
Input Voltage (Vrms)	120	230	277
Input Current, max (Arms)	0.98	0.51	0.43
Inrush Current, max* (Apk)	-	20	-
Input Frequency (Hz)	50/60		
Input Power (Wmax)	117		

Output	RGB	RGBW
Output Voltage, nom (V)	24	24
Output Current (A) per channel	1.4	1.0
Output Power (Wmax)	100	100
Output Power (Wmax) per channel	60	60

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

*-200us event

PROTECTIONS

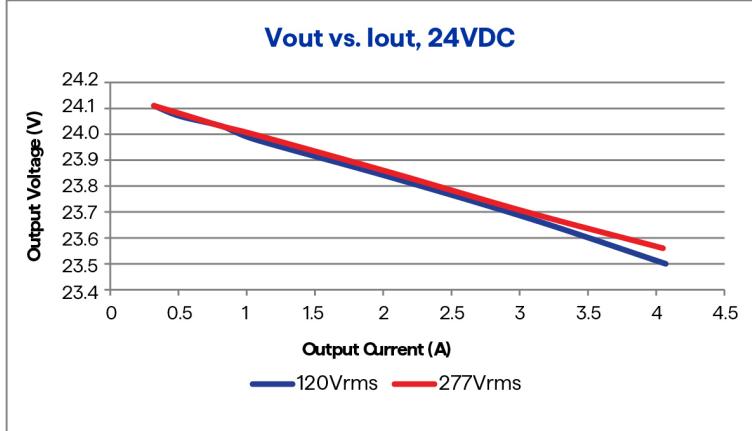
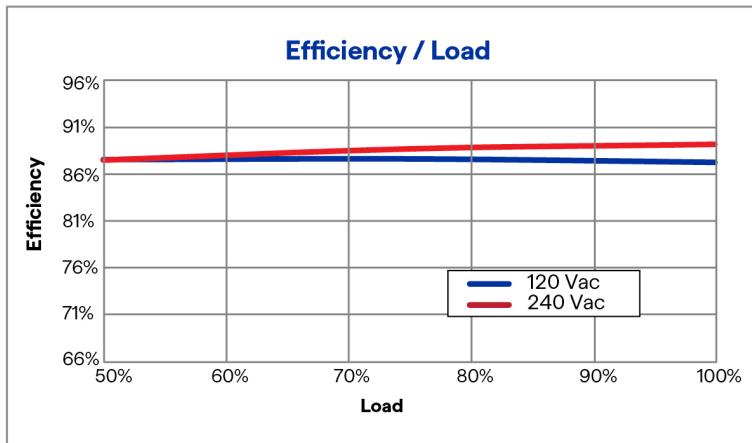
6 COLOR



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

COMPLIANCE

- EMI Spec
 - FCC 47 Part 15
 - 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

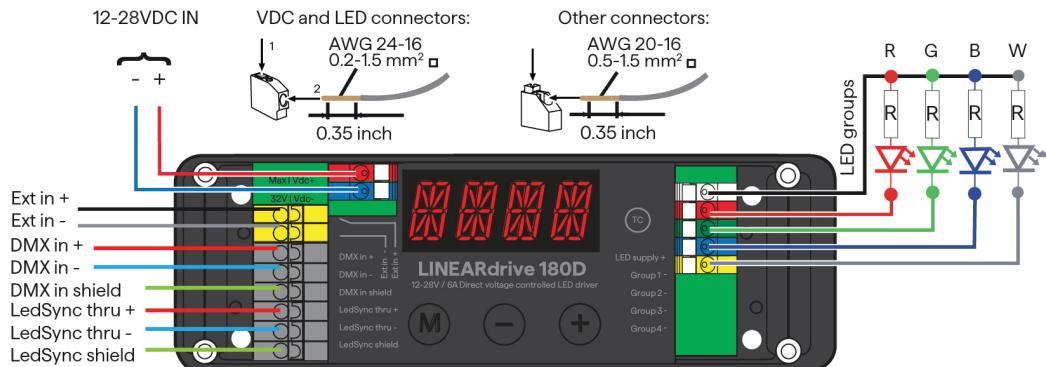




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WIRING DIAGRAM



12V - 28V DC IN

- To connect the driver to a DC power supply unit (PSU), connect the PSU's positive voltage supply wire to the VDC+ connector and the PSU's negative voltage supply wire to the VDC- connector.

EXT IN

- You have the possibility to connect an external control device (0-10V control device, 10kΩ potentiometer or show selection switch) to the driver's Ext in+ and Ext in - connector. Configure the driver for use with an external control device over the 3 - button user interface.

DMX IN/LEDSYNC OUT

- Use these connectors when the driver is used in a DMX network. For DMX in, connect the network cable's DMX+, DMX- and DMX shielding wire (the orange/white, orange and brown wire in a CAT5 cable) to the DMX in+, DMX in- and DMX in shield connector respectively. For LedSync out, connect the network cable's DMX+, DMX- and DMX shielding wire to the LedSync out+, LedSync out- and LedSync shield connector respectively. DMX Shield must be grounded to Earth ground at a single point external to power supply

LED GROUPS

- Indicates the location of the connectors for your LED groups. R(ed) represents channel 1, G(reen) represents channel 2, B(lue) represents channel 3 and W(hite) represents channel 4. The default group color allocation can be changed over the 3-button user interface.

COMPATIBLE CONTROL ACCESSORIES

DMX-US1	DMX-US3	UX8	IQ-DMX-STICK-CW4	iQ-DMX-STICK-DE3	iQ-DMX-STICK-GA2

DMX-based controller DMX-based controller Easy-to-use DMX-based controller DMX controller for changing color & dimming DMX controller for changing color & dimming DMX controller for changing color & dimming