



# Q-TRAN Q-SET+QZ-DMX Compact LED Drivers Owner's Manual

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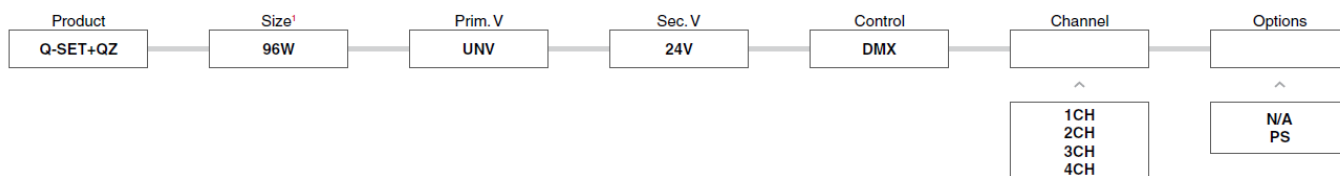
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**Q-TRAN Q-SET+QZ-DMX Compact LED Drivers**





## Technical Information

### Size

Channel	Size	Primary Voltage	Secondary Voltage	Secondary Current	Compatible Light engine
CH1	96W	100-277V	24VDC	1X4A	SW, SW-HE, SW-HE+, SC, WD
CH2	96W	100-277V	24VDC	2X2.08A	DW, DW-HE
CH3	96W	100-277V	24VDC	3X1.39 A	RGB
CH4	96W	100-277V	24VDC	4X1.04A	RGBW

### Options PS

- Pool & Spa

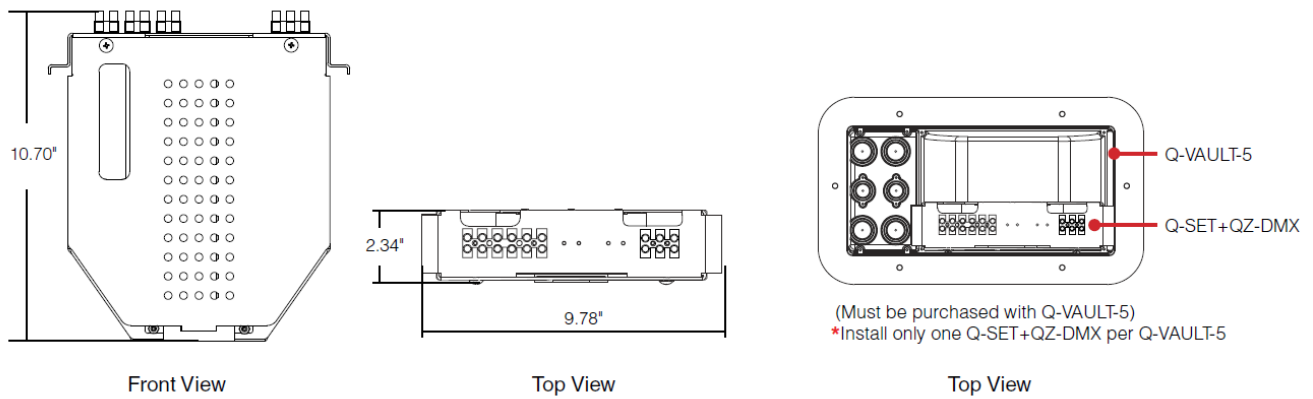
### Voltage Drop Chart

VDC	Load Wattage (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	15	913	574	361	227	143	90	55	35	22
	30	456	287	181	114	71	45	28	17	11
	60	228	143	90	57	36	22	14	9	5
	80	171	108	68	43	27	17	10	7	4
	96	143	90	56	35	22	14	9	5	3

Wiring from power supply to light fixture must be single multiconductor cable

- Distances are based on a 5% Voltage drop max.
- This product must be installed in accordance with all applicable codes by a person familiar with the

construction and operation of the product.



## Housing

- Dimensions: 10.70"L x 9.78"W x 2.34"D
- Q-VAULT-5 enclosure can fit up to one Q-SET+QZ-DMX
- Q-VAULT-5 is IP68 rated
- Housing for direct burial fixtures shall be IP68 Rated, with all sealing materials supplied by the manufacturer
- Housing for direct burial fixtures shall be rated for burial in soil, gravel and concrete

## GENERAL Information

- Constant voltage output
- 8 Bit DMX Control
- RDM addressing
- NFC App for addressing & Voltage adjust
- Adjustable output voltage – Range: 24V-26V
- DMX dimming down to 0.1%
- Suitable for dry, damp and wet locations
- Suitable for direct burial use
- Not for installation to conduit extending directly to an underwater pool light forming shell. In line Pool and Spa rated junction box required.
- Suitable for use with submersible luminaries
- Primary voltage – universal (100-277V)
- Operating temperature range: -40°F to +122°F
- UL, cUL listed
- Type HL rated
- Compliant to FCC Part 15B
- 5 year warranty
- CSA #239924
- Low Voltage Lighting Systems
- CSA Class 3426-04 and Class 3426-94
- CSA Standard C22.2 No. 250.0-08 – Luminaires
- ANSI/UL Standard 2108 – Low Voltage Lighting System

- Landscape Lighting Systems
- CSA Class 3425-15 and Class 3425-95
- CSA Standard C22.2 No. 250.7-07 – Extra-Low Voltage Landscape Lighting Systems
- ANSI/UL Standard 1838 – Low Voltage Landscape Lighting Systems
- Hydromassage (Pool and Spa)
- CSA Class 3425-46 and class 3425-96
- ANSI/UL Standard 379 – Power Units for Fountain, Swimming Pool, and Spa Luminaires

## **Performance**

- Power supply shall be rated for outdoor and direct burial use in Q-VAULT-5 IP68 Listed direct burial enclosure
- Fully rated to operate low voltage load at listed wattage (No Derating Required)
- Limit voltage regulation to 5% or less of rated output voltage
- Universal input range of 120-277 Vrms
- Terminal blocks shall be made of tin plated copper with a voltage rating of 300V and a current rating of 40A
- Live tested by manufacturer to ensure proper operation
- Rated for:
  - CSA Class 3425-15 and Class 3425-95 – Landscape Lighting System Components
  - CSA Class 3426-04 and Class 3426-94 – Low Voltage Lighting Systems
  - CSA Class 3425-46 and class 3425-96 – Hydromassage

## **Specifications**

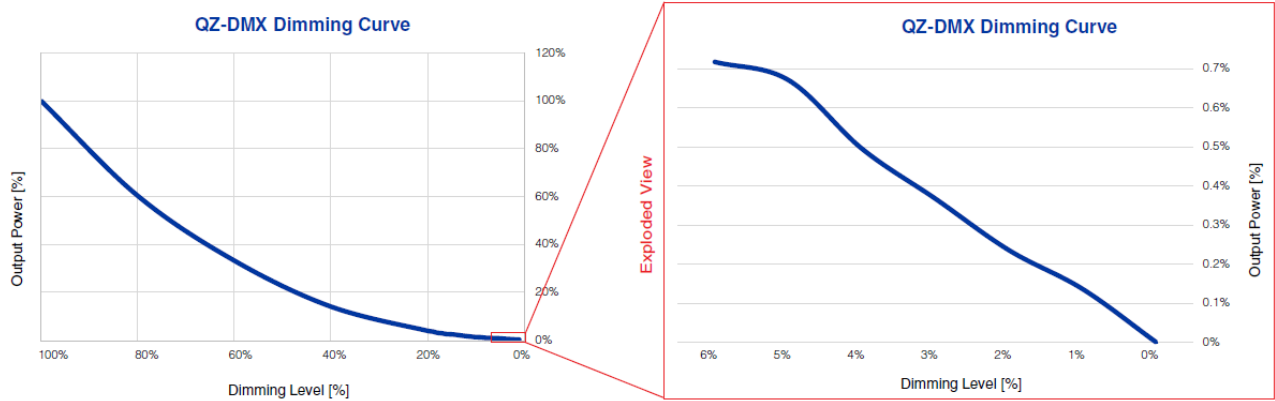
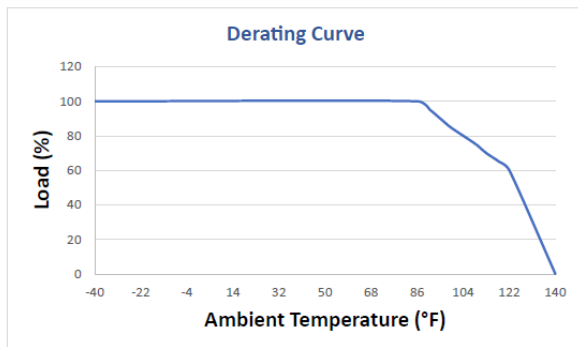
Input			
Input Voltage (Vrms)	110-277V		
Input Current, max (Arms)	1.25A @ 110V		
Inrush Current, max* (A <sub>pk</sub> )	48.5A@277V		
Input Frequency (Hz)	50/60		
Input Power (W)	125		
Output			
Output Voltage, nom (V)	24		
Output Current (A)	4A @ 24V		
Output Power (W <sub>max</sub> )	96W		
Environmental	Min	Nom	Max
THD (%)	—	—	20
PF (%)	0.94	—	—
Working Temp (°F)	—	—	122

## Protections

- Short Circuit Protection
- Over Loading Protection
- Over Temperature Protection
- I/P-O/P:1.88KVAC
- I/P-O/P:100M $\Omega$ /500VDC/77°F/70%RH

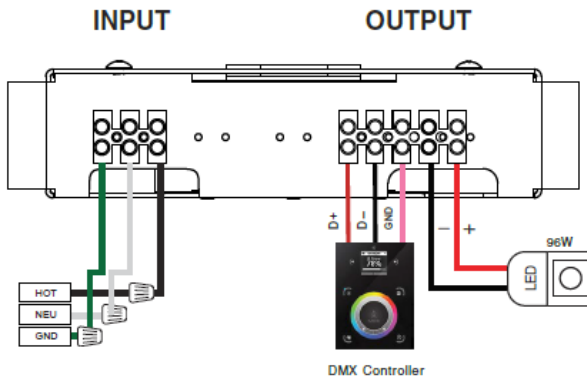
## Compliance

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

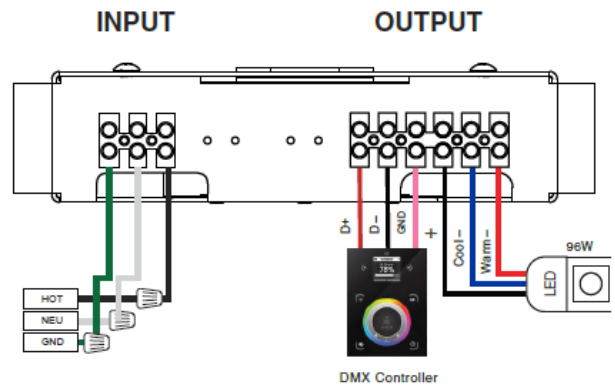


## DMX Control

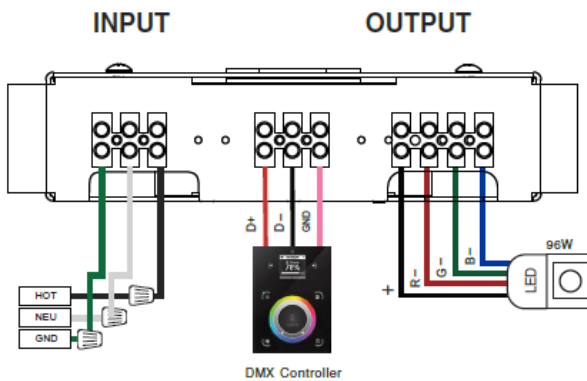
### 1 CHANNEL (96W)



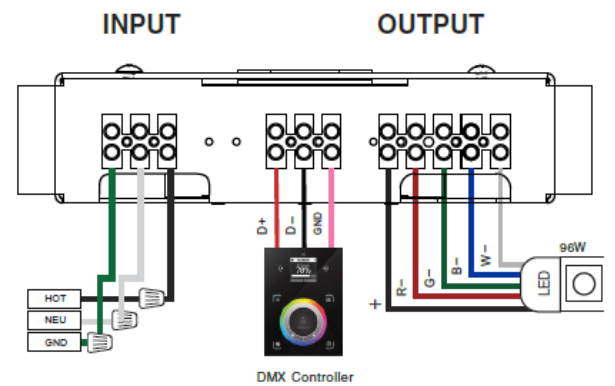
### 2 CHANNEL (96W)



### 3 CHANNEL (96W)



### 4 CHANNEL (96W)



- Wiring from power supply to light fixture must be single multiconductor cable.
- For best practice use a DMX Optosplitter for splitting DMX connections.
- Default DMX address for the driver is #1 and default output voltage is 24V.
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- Specification subject to change. Rev-03-22-23

## Documents / Resources

	<p><b>Q-TRAN Q-SET+QZ-DMX Compact LED Drivers</b> [pdf] Owner's Manual Q-SET QZ-DMX 96W, Q-SET QZ-DMX Compact LED Drivers, Q-SET QZ-DMX, Compact LED Drivers, LED Drivers</p>
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## References

- [RealNames](#) | [A more meaningful email address](#)



- [Q LED Lighting Systems, Linear LED Lights, LED transformers | Q-Tran](#)

Manuals+.