

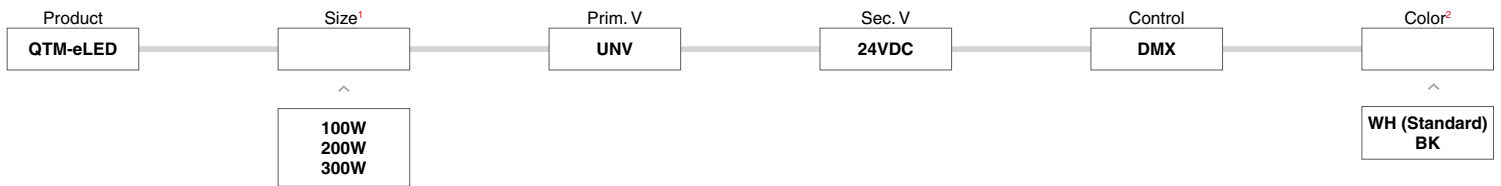
# QTM-eLED+DMX LED POWER SUPPLY 100W–300W



QTM-eLED+DMX is an LED power supply for DMX applications. It utilizes an Advance Xitanium driver along with the eldoLED LINEARdrive DMX decoder from eldoLED. The unit is available in 100-300 watt capacity. The power supplies and decoders are all prewired together along with terminal blocks for power and control wires. The housing can be recessed or surface mounted.



## Part Number Builder



## Technical Information

### <sup>1</sup> Size

Size	Max Load (Watts)	Secondary Voltage (12/24VDC)	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

### <sup>2</sup> Color

**WH** White (Standard)  
**BK** Black Powder Coat Finish

## Voltage Drop Chart

VDC	Watts (W)	10 AWG (5.6mm <sup>2</sup> )	12 AWG (3.3mm <sup>2</sup> )	14 AWG (3.0mm <sup>2</sup> )	16 AWG (1.3mm <sup>2</sup> )	18 AWG (0.78mm <sup>2</sup> )	20 AWG (0.50mm <sup>2</sup> )	22 AWG (0.33mm <sup>2</sup> )	24 AWG (0.22mm <sup>2</sup> )	26 AWG (0.13mm <sup>2</sup> )
		24	17	897'	564'	355'	223'	140'	88'	55'
	25	567'	356'	224'	141'	88'	56'	35'	22'	14'
	40	309'	194'	122'	77'	48'	30'	30'	12'	7'
	80	130'	82'	51'	32'	20'	13'	8'	5'	3'
	100	84'	53'	33'	21'	13'	8'	5'	3'	

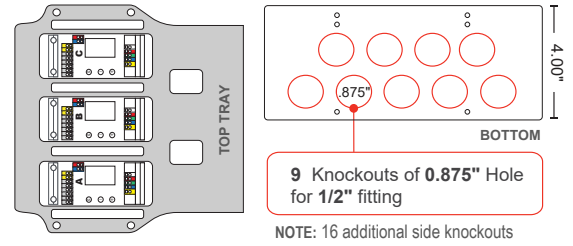
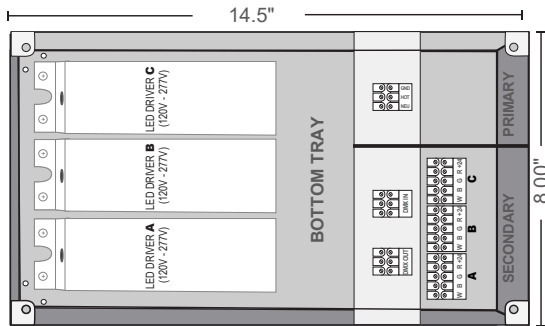
\*Distances are based on a 5% Voltage drop max.

• 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



# QTM-eLED+DMX

LED POWER SUPPLY 100W-300W



## Housing

- 18 gauge welded steel enclosure: 14.5"W x 8.00"H x 4.00"D
- Door: 15.5"W x 9.00"H
- Knockouts: 25
- Built-in support bracket incorporated to secure housing for surface mounting

## Performance

- Power Supply
  - : Rated for surface mount or recessed 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
  - : Short circuit protection (SCP)
  - : Over voltage protection (OVP)
  - : Over current protection (OCP)
  - : Live tested by the manufacture to ensure proper operation
  - : Manufacturer offers a minimum of 5 years warranty
- Terminal blocks is made of tin plated copper with a voltage rating of 300V and a current rating of 40A

- Limited output voltage and current, plus isolation for safe operation
- Controllable with DMX decoder module
- DMX dimming down to 0%
- Fully potted driver(s) for moisture resistance
- Suitable for dry and damp locations
- Suitable for surface or recessed mounting use
- 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 years 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 systems
- : CSA standard C22.2 No 250.13-14 - Light emitting diode (LED) equipment for lighting applications
- : ANSI/ UL standard 8750 - Light emitting diode (LED) equipment for use in lighting products





### 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 (W)	177		

Output	RGB	RGBW
Output Voltage, nom (V)	24	24
Output Current (A)	2.0	1.5
Output Power (Wmax)	100	100

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

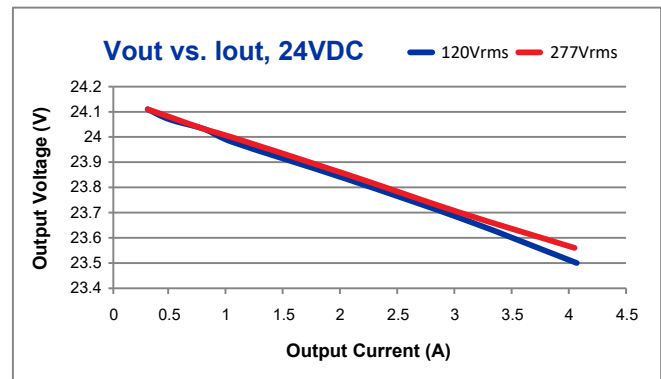
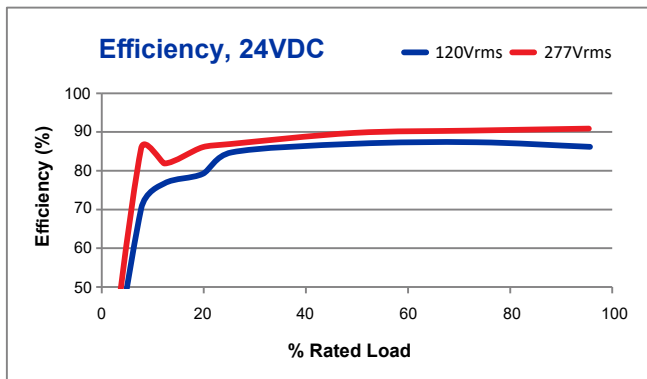
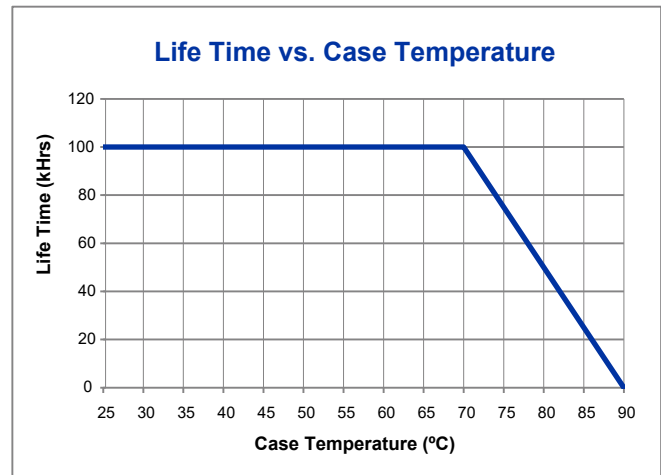
\*- 200us event

### Protections

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

### Compliance

- EMI Spec : FCC 47 Part 15  
: EN61000-3-2
- CSA Certified : UL-2108  
: UL-8750  
: CSA C22.2 No 250.0-08  
: CSA C22.2 No 250.13-14

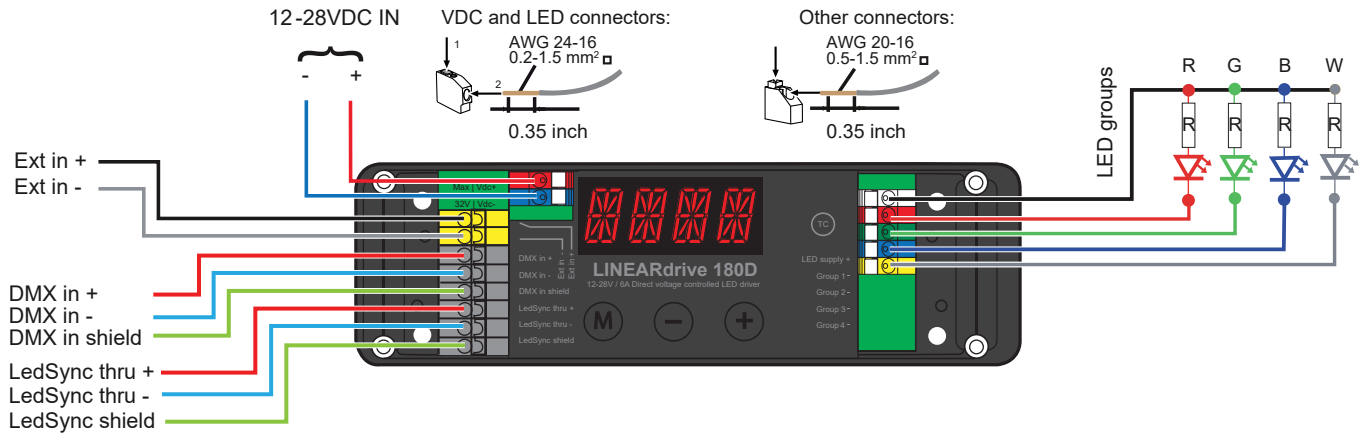


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## Wiring Diagram



## 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.

