

Trinity 6 DMX

LED Lighting Power Supply

Simple, efficient, versatile power and control.

Product Description

The Trinity 6 DMX provides digital power conversion with a digital control interface for high-power LED applications where higher drive currents are required.

The Trinity 3-in-1 platform combines digital power conversion, constant current drivers, and superior dimming control into one cohesive LED power supply. The LumaStream core processor maximizes the efficiency of AC/DC power conversion at multiple stages, providing remarkably high power efficiency maintained across a wide range of dimming levels.

Ideal applications: retail, restaurant, hospitality, entertainment, theater, architectural lighting.

Schedule ID	
Part Number	
Notes	



Key Features

- Powers LED luminaires up to 150' from driver
- Up to 12 independent control channels
- DMX512 digital lighting control
- Smooth, flicker-free dimming to 0.2%
- Digital AC/DC power conversion
- Drive currents from 600 mA to 1400 mA
- 87% efficiency rating
- Centralized surge protection
- Up to 243 watts total output power
- Reduces heat at fixture; protects LEDs
- UL listed; RoHS compliant

Model Options						
Model #	Channels	Rated Input Current	Drive Current	Output Voltage	Output Power /Channel	
66-12-0600-DMX-3	12	2.7 - 1.1 A	600 mA	6 - 27 Vdc	3.6 - 16.2 W	
66-12-0700-DMX-3	12	2.7 - 1.1 A	700 mA	6 - 27 Vdc	4.2 - 18.9 W	
66-09-0800-DMX-3	9	2.7 - 1.1 A	800 mA	6 - 27 Vdc	4.8 - 21.6 W	
66-09-0900-DMX-3	9	2.7 - 1.1 A	900 mA	6 - 27 Vdc	5.4 - 24.3 W	
66-09-1000-DMX-3	9	2.7 - 1.1 A	1000 mA	6 - 27 Vdc	6.0 - 27.0 W	
66-06-1200-DMX-3	6	2.7 - 1.1 A	1200 mA	6 - 27 Vdc	7.2 - 32.4 W	
66-06-1400-DMX-3	6	2.7 - 1.1 A	1400 mA	6 - 27 Vdc	8.4 - 37.8 W	

Trinity 6 DMX Specifications

Input

Rated Input Voltage	115 to 277 Vac hard-wired
Rated Input Frequency	50 - 60 Hz
Power Factor EN61000-3-2	At 115 Vac, 100% load, 0.97 W/VA min
Input Current Total Harmonic Distortion	At 115 Vac, 100% load, 13% max

Output

Rated Output Power	At 40°C / 104°F ambient, 243 W max
Output Voltage	6 to 27 Vdc
Efficiency	87% with 100% load at 115 Vac input
System Power Cycle Delay	2 second typical time required for stabilization of all outputs
Output Current Tolerance	+/-5 % of nominal

System Protection

Output	Over voltage, over current, short circuit protection
Over Temperature	Power supply will shut down when external ambient temperature exceeds 43°C/ 109.4°F or temperature reaches 85°C/ 185°F typical.
Output Interconnection	Hiccup mode with automatic recovery upon removal of short.

Safety and EMI/EMC

Agency Approvals	UL 60950-1, IEC60950-1, SELV, Class 2 outputs, LPS UL8750
Conducted and Radiated Emissions	EN55022; ICES-003; FCC Title 47, Part 15, Class A (for commercial use only); EN55015 Conducted (external filter required)
EMC	EN61547- general lighting

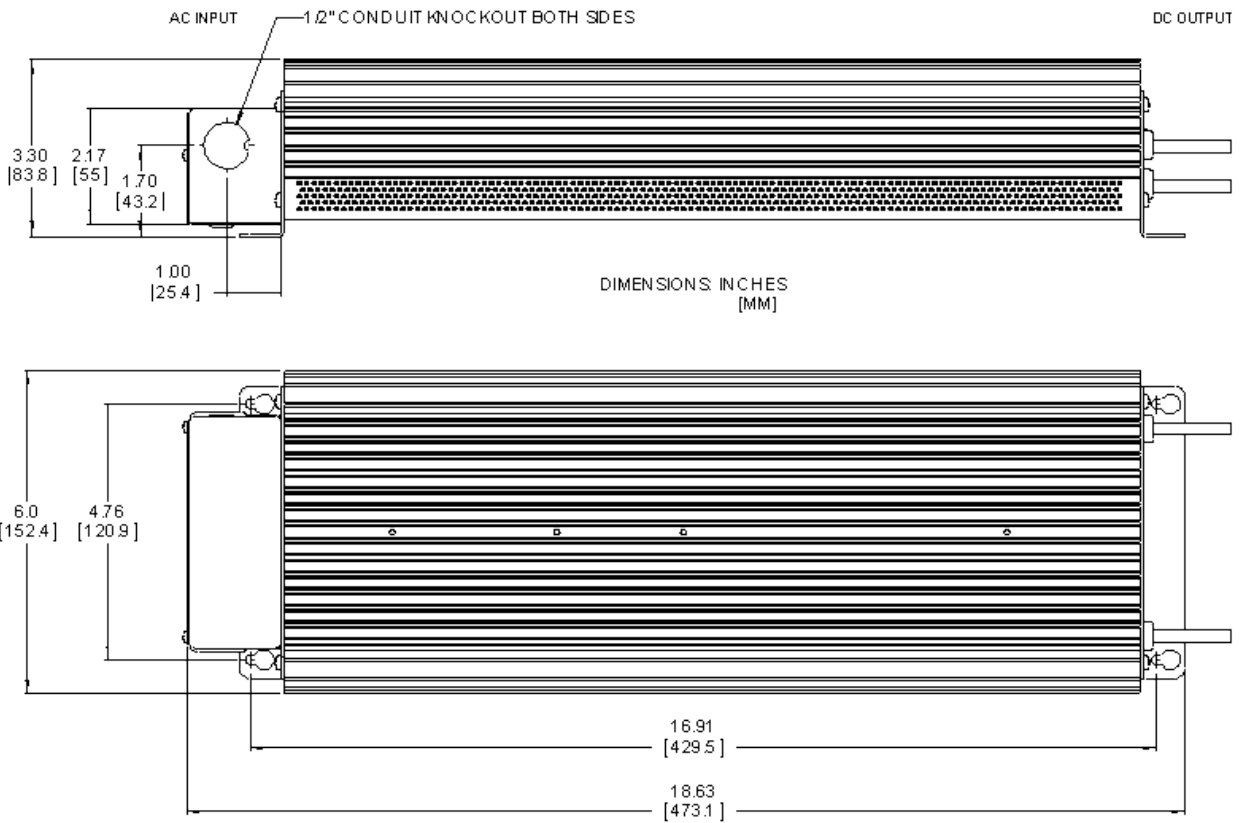
Environmental

Location Rating	Dry
Operating Ambient Temperature	-20°C to 40°C / -4°F to 104°F
Cold Start Temperature	-20°C / -4°F
Storage Ambient Temperature	-40°C to 80°C / -40°F to 176°F
Relative Humidity	5% to 95% noncondensing

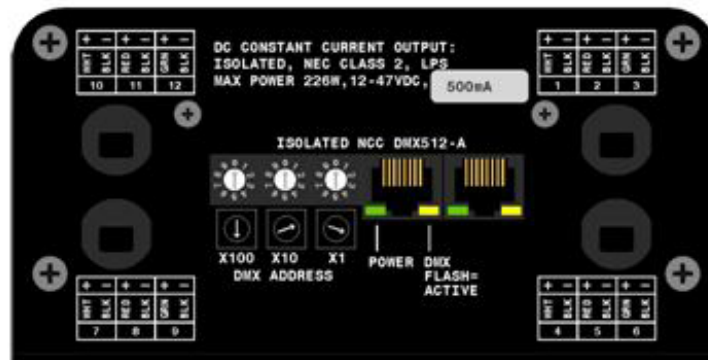
Control Interface

Control Method	DMX512-A
DMX Receiver Isolation	Isolated from earth ground
Start Codes	Will only respond to NULL START code
Loss of DMX Input Signal	Outputs will go to 100% light intensity in less than 1 second.

Mechanical Specifications



End Panel



For more information, please contact:

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