

## TRINITY6 DMX™

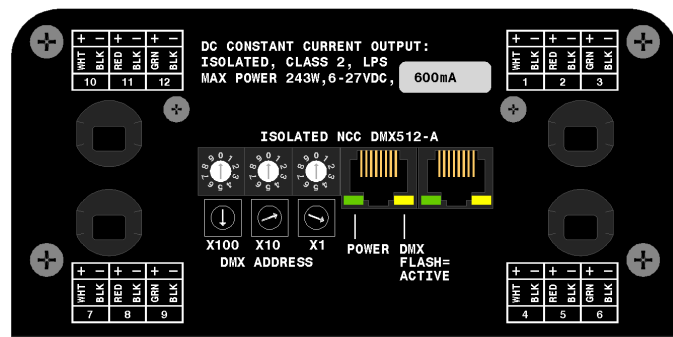
The Trinity 6 DMX LED Driver/Dimmer™ is the first fully digitally controlled power source for Solid State Lighting applications providing the ultimate in energy efficiency performance and configuration flexibility capable of driving and dimming up to 72 high power LEDs.

### SIMPLE, EFFICIENT, VERSATILE

- Drive up to 6 LEDs per channel
- Up to 12 configurable output channels
- Ideal for 600mA to 1400mA high power LED applications
- Best in Class, Smooth 0.2% to 100% dimming technology (patent pending)
- SELV, LPS, Class 2 outputs
- Up to 243 watts of output power
- 87% efficiency
- USITT DMX512A compatible
- Convection Cooled
- RoHS Compliant



USITT DMX512A interface with RJ45 loop thru connections and rotary dial addressing function



### APPLICATIONS

This 3 in 1 Driver/Dimmer solution is ideal for NEC Article 411 and UL2108 Solid State Lighting applications in.....

- General Illumination
- Architectural
- Entertainment
- Retail
- Hospitality

<b>TRINITY 6 DMX Model Options</b>				
<b>Model #</b>	<b># of Channels</b>	<b>Drive Current</b>	<b>Maximum # of LEDs per Channel</b>	<b>Maximum # of LEDs</b>
66-12-0600-DMX-3	12	600 mA	6	72
66-12-0700-DMX-3	12	700 mA	6	72
66- 9- 0800-DMX-3	9	800 mA	6	54
66- 9- 0900-DMX-3	9	900 mA	6	54
66- 9- 1000-DMX-3	9	1000 mA	6	54
66- 6- 1200-DMX-3	6	1200 mA	6	36
66- 6- 1400-DMX-3	6	1400 mA	6	36

### Input Specifications

Rated Input Voltage And Frequency	115 to 277 50-60	Vac Hz		
Rated Input Current	2.7 – 1.1	A		
Power Factor EN61000-3-2	@ 115 or 277 Vac, 100% load	0.97	W/VA	min
Input Current Total Harmonic Distortion	@ 115 or 277 Vac 100% load	13	% max	

### Environmental Specifications

Location Rating	Dry
Operating Ambient Temperature	-20 °C to +40 °C
Cold Start Temperature	-20 °C
Storage Ambient Temperature	-40 °C to 80 °C
Relative Humidity	5% to 95% noncondensing
MTBF (MIL HDBK-217F) (12 channel)	>60,000 hours @ 40 °C >97,000 hours @ 25 °C

### DMX Interface Specifications

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

### Output Specifications

Rated Output Power	@ 40 °C ambient	243	W max
Output Voltage Dynamic Range	Under load conditions	6.0 to 27.0	Vdc
Efficiency	100% load @ 277 Vac input	87	%
Turn on delay	Time required for stabilization of all outputs	2	sec typical
Output Current Tolerance		+/-5 % of nominal	

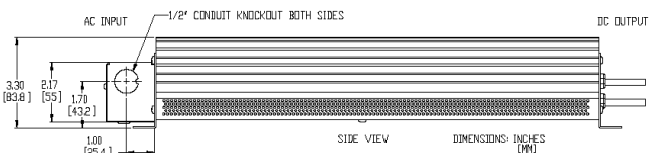
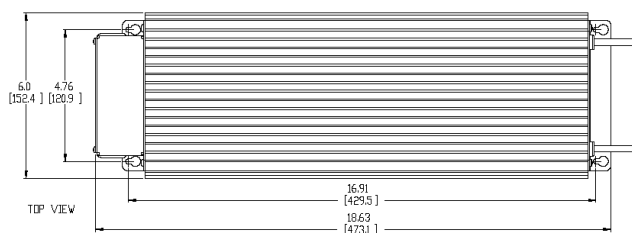
### Protection

Output Protection	Over voltage, over current, short circuit protection
Over Temperature Protection	Power Supply will shut down when external ambient temperature exceeds 43°C or case temperature reaches 85 °C nominal.
Output Interconnection Protection	Shutdown of module. Requires recycling of AC input to restart

### Safety and EMI/EMC Specifications

Agency Approvals	UL60950-1, IEC60950-1, SELV, class 2 outputs, LPS Standard UL 8750
Conducted & Radiated Emissions	EN55022 , ICES-003 FCC Title 47, Part 15 EN55015 Conducted (external filter required) <span style="float: right;">Class A</span>
EMC	EN61547-general lighting

### Mechanical Specifications



Dimensions in Inches [mm]