POWER VECTOR®
ENGINEERED LED POWER

Data Sheet

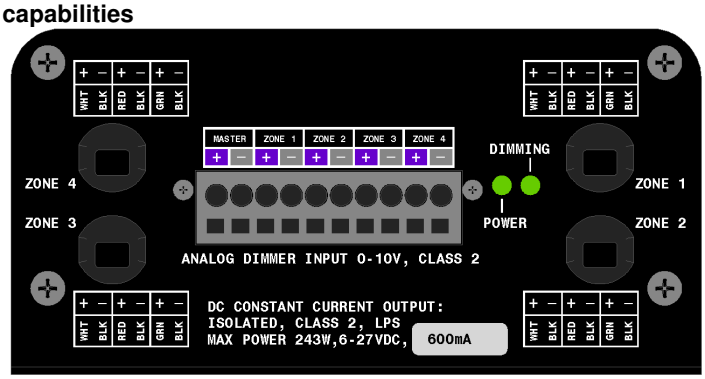
TRINITY 6 Analog™

The Trinity 6 Analog 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
- IEC60929 and ESTA 1.3-2001 0-10Vdc Analog Interface options
- Convection Cooled
- RoHS Compliant
- CB Scheme

Analog Dimming Interface with Master and Zonal dimming capabilities



LISTED
LED DRIVER
44DE

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

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TRINITY 6 ANALOG Model Options				
Model #	**# of Channels**	**Drive Current**	**Maximum # of LEDs per Channel**	**Maximum # of LEDs**
66-12-0600-ANA-3	12	600 mA	6	72
66-12-0700-ANA-3	12	700 mA	6	72
66- 9- 0800-ANA-3	9	800 mA	6	54
66- 9- 0900-ANA-3	9	900 mA	6	54
66- 9- 1000-ANA-3	9	1000 mA	6	54
66- 6- 1200-ANA-3	6	1200 mA	6	36
66- 6- 1400-ANA-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 ℃ to +40 ℃
Cold Start Temperature	-20 ℃
Storage Ambient Temperature	-40 ℃ to 80 ℃
Relative Humidity	5% to 95% noncondensing
MTBF (MIL HDBK-217F) (12 channel)	>60,000 hours @ 40 ℃ >97,000 hours @ 25 ℃

Analog Interface Specifications

Control Method	Analog 0-10 Vdc IEC 60929 or ESTA E1.3-2001 Class 2 outputs	Master, Zone 1, Zone 2, Zone 3, Zone 4 outputs each source 0.5 mA maximum
Loss of Analog Input Signal	Outputs will go to 100% light intensity in less than 1 second	

Output Specifications

Rated Output Power	@ 40 ℃ 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	

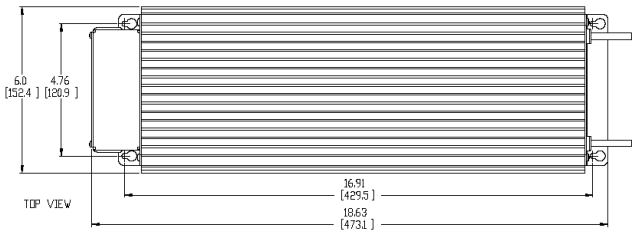
Protection

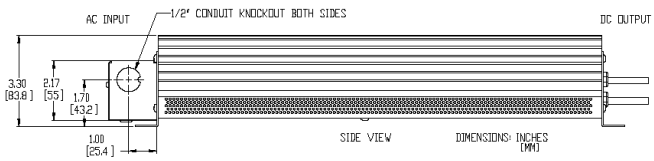
Output Protection	Over voltage, over current, short circuit protection
Over Temperature Protection	Power Supply will shut down when external ambient temperature exceeds 43ºC or case temperature reaches 85 °C nominal.
Output Interconnection Protection	Shutdown of module. Requires recycling of AC input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

Safety and EMI/EMC Specifications

Agency Approvals	UL60950-1, IEC60950-1, SELV, class 2 outputs, LPS Standard UL8750	
Conducted & Radiated Emissions	EN55022 , ICES-003 FCC Title 47, Part 15 EN55015 Conducted (external filter required)	Class A
EMC	EN61547-general lighting	

Mechanical Specifications





Dimensions in inches [mm]