

NEVALO SSL System

18W Triac Dimmable LED Driver
700mA Constant Current

Features

- High efficiency, 78% typical
- Power factor >.0.95
- UL recognized, Class 2 isolation
- Dimming to less than 10%
- Compatible with most leading-edge and trailing-edge dimmers
- Protection
  - 4 wire output thermal protection
  - Short circuit
  - Input high voltage
  - Over voltage
  - Over current
- Dry and damp location compatible
- 5 year warranty with NEVALO System

The NEVALO 18W 700mA triac dimmable LED driver is a high efficiency, power factor corrected supply with a unique color coded, keyed interconnect design that ensures optimal power is delivered to LEDs. The driver is designed with built-in voltage and thermal protection and is warranted for 5 years when used with the NEVALO SSL System.

APPLICATIONS

- Retail and light commercial
- Downlights
- Track and spots
- Wall mount

MECHANICAL CONSTRUCTION

Body: GF PBT, Natural
Input Wire: 18AWG Stranded, UL 1007 PVC 300V,
- Neutral - White
- Line/Mains - Black

NEVALO Connector: GF LCP, Natural

ENVIRONMENTAL

Storage Temperature: -40°C to 85°C
Temperature (Max) T_c: 80°C
Max Ambient Operating Temperature: 50°C
Operational Life: 5 years
Humidity: 5-95% non-condensing
Sound: Class A
Vibration: EIA-364-28
ROHS Compliant: Yes

ELECTRICAL CHARACTERISTICS

	Parameter	Conditions	Min	Typ	Max	Units
Input	Voltage (V_{in})		108	120	132	VAC
	Frequency ($freq_{in}$)		47		63	Hz
	Power Factor (PF)	V_{in} = 120VAC at rated load	0.95			WVA
	Efficiency	I_O at rated load, V_{in} = 110VAC		78		%
	THD	V_{in} = 120VAC at rated load			15	%
	Inrush Current (I_{in}) MAX	V_{in} = 120VAC			0.4	A
Output	Voltage (V_O)	At rated load	8		25	VDC
	Current (I_O)			700		mA
	Current Regulation			3	5	%
	Set Point Current Accuracy	V= 108VAC-132VAC			3	%
	Ripple Current (I_R)	No dimming			40	%
Dimming	Analog Dimming Resolution		1		100	%
	Start-Up Time	Vin = 110VAC to 90% of full scale of IO No dimmer or 100% of Full Scale Current 50% of Full Scale Current 10% of Full Scale Current 1% of Full Scale Current		.2 .5 1 2.5		s s s s
Protection	Over-Voltage Limit Threshold			YES		
	Output Current Short Protection			YES		
	Short and Open Circuit			YES		

Typical values are at Tc = 25°C

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ORDERING INFORMATION

Part Number	Output Power (W)	Nominal Input Voltage (VAC)	Output Current (mA)	Output Voltage (Min)	Output Voltage (Max)	System Budget
2154095-1	18	120 +/- 10%	700	8	25	8-25

*System Budget is a unique NEVALO SSL system feature that allows the appropriate LED Light Module (LLM) loading to the driver. Red = 700mA and matches color coding on driver.

DOCUMENTS

Click for link to document	
Product Specification	108-2450
Customer Drawing	2154095-1
IS sheet	408-10419

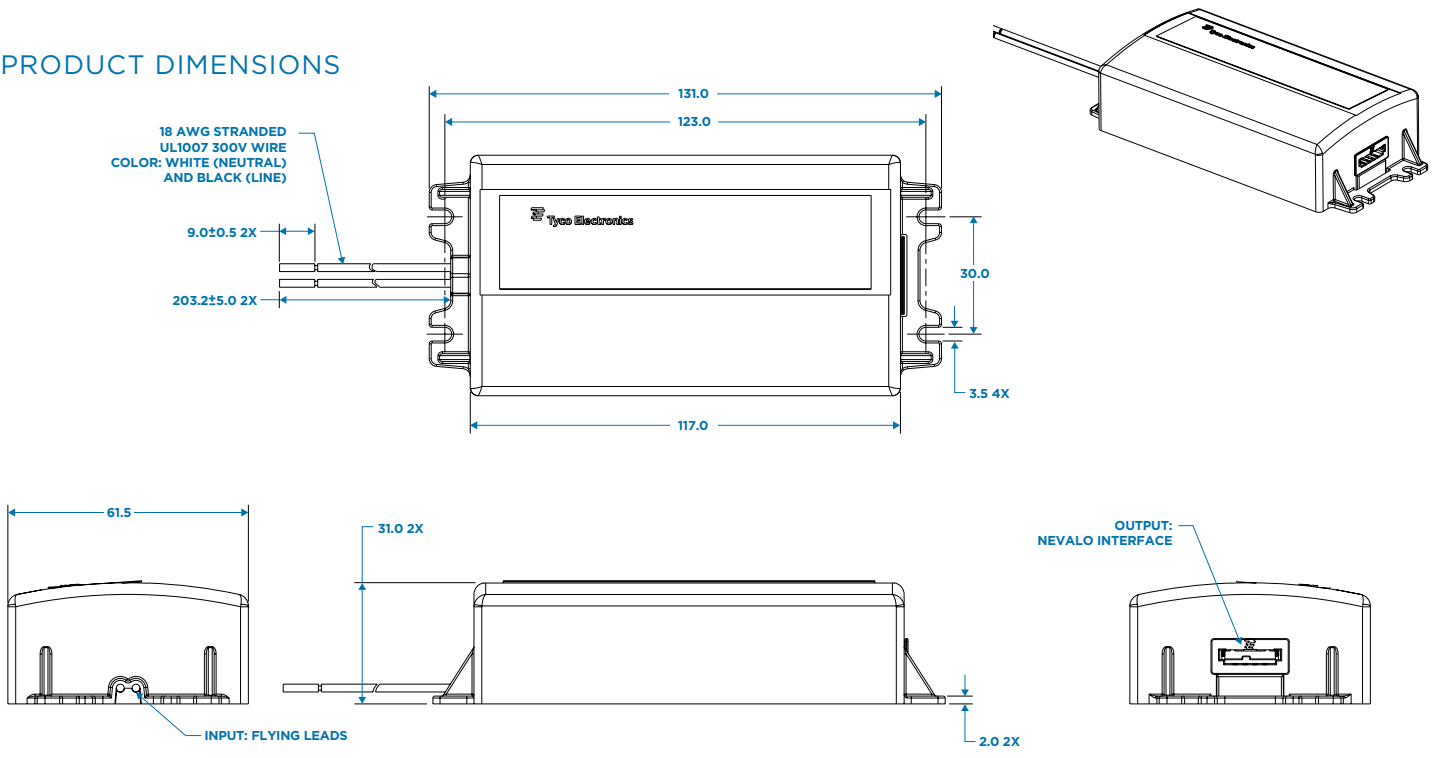
ELECTROMAGNETIC COMPATIBILITY

Parameter	Conditions
EMI Conducted and Radiated	FCC Title 47, Part 15, Class B
Surge Immunity	ANSI/IEEE C62.41. - 1991 100 KHz ring wave 2.5 KV level
ESD Immunity	EN61000-4-4, Level 2
	As assembled into complete product

APPROVALS

Parameter	Standard
USA Safety	UL 8750 Recognized, compliant to UL 1310
	As assembled into complete product

PRODUCT DIMENSIONS



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