LED Driver

ADVANCE

by (s) ignify

Xitanium

XI150C105V140CNF1



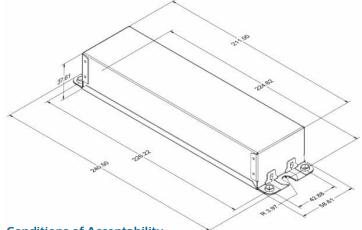
Long-lasting and low maintenance, LED-based light sources are an excellent solution for all lighting applications. For optimal performance, these solutions require reliable drivers matching the long lifetime of the LEDs. **The Advance Xitanium LED Outdoor Driver portfolio** offers a range of products specially designed to operate LED solutions in outdoor applications. These drivers are designed for hard-wired integration into outdoor luminaires for the most rugged applications. They operate to specification under wide temperature and electrical ranges to ensure reliability.

Specifications

				Efficiency@			Max.	Inrush			Surge		
Input	Output	Output	Output	Max Load	Max.	Input	Input	Current	THD @	Power	Protection		Envir.
Voltage	Power	Voltage	Current	and 70°C	Case Temp.	Current	Power	(A _{pk} /10%-	Max.	Factor @	Common/	Weight	Protection
(Vrms)	(W)	(V)	(A)	Case	(°C)	(Arms)	(W)	μs)	Load	Max. Load	Diff (KV)	(Lbs/kgs)	Rating
120	150	44-140	1.05	90.7	80	1.4	169	57 / 300	<10%	>0.95	4/4	2.1/0.95	UL Dry &
277	150	44-140	1.05	92.8	80	0.6	109	132 / 276	<10%	>0.95	4/4	2.1/0.95	Damp

Enclosure

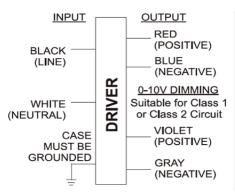
	In. (mm)
Case Length	8.38 (211.1)
Case Width	2.35 (59.1)
Case Height	1.49 (37.6)
Mounting Length	9.0 (226.2)
Mounting Width	1.7 (42.9)
Overall Length	9.54 (240.5)



UL Conditions of Acceptability:

Please contact your representative for a copy of the latest UL Conditions of Acceptability (COA).

Wiring Diagram



Input and output use lead-wires.

Lead-wires are 18AWG 105C/600V solid copper per UL1452.

Lead Length outside enclosure: 270 mm (±30mm) on all wires

Dimming: 270mm (±30mm)

Dimming	Dimming Range	Minimum Output Current (A)	Other Comments	
0-10V Analog	10% ~ 100%	0.105	Dimming source current: 150 µA (±3%)	

150W 120-277V 1.05A 0-10V

Electrical Specifications

All the specifications are typical and at 25°C Tcase unless specified otherwise.

Features

- · 50,000+ hour lifetime1
- \cdot New housing with high thermal capability

Benefits

- · Enables long life luminaire designs
- Allows luminaire designs for ambient environments

Application

- · Area
- · Roadway
- · Parking garages
- Floodlights
- Advance Xitanium LED Drivers are designed and manufactured to engineering standards correlating to an average life expectancy of 50,000 hours of operation at maximum rated case temperature. Minimum 90% survivals based on MTBF modeling.

Product Data

XI150C105V140CNF1				
XI150C105V140CNF1M (Mid-Pack, 10pcs/Box)				
XITANIUM 150W 1.05A 0-10V Dimming				
120-277Vac rms				
1.40A @ 120Vac, 0.60 @ 277Vac, 0.67A @ 250Vdc				
50/60Hz				
108V				
305V				
Refer to graph				
Refer to graph				
Refer to graph				
Per NEMA 410				
Refer to table				
44Vdc to 140Vdc				
220Vdc				
15% max @ max lout and max Vout Low frequency (≤120 Hz) content <5%				
Short Circuit and Open Circuit Protection for LED + and LED -				
-40°C to +55°C				
80°C				
80 C				
0-10V Dimming				
150μA ± 3% source current from driver. See dim curve for detail.				
1				
UL dry and damp				
UL879, UL1012, UL935, (cRUs/CSA)				
FCC Title 47 Part 15 Class A				
Refer to table				
<24dB Class A				

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0-10V Dimming Curve:

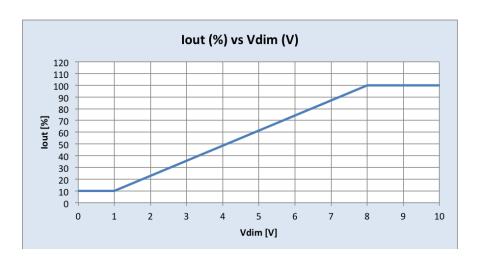
Dimming source current from the driver: 150µA (±3%) (@ 0<Vdim<8V)

LED Current Tolerance at $1050 \text{mA} \le 5\%$ over temperature and component variations and $\le 10\%$ at any dim level

Minimum Dim Level (nominal): 105 mA

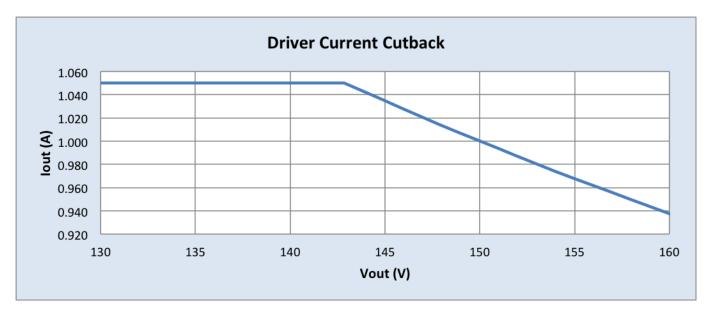
Approved Dimmer List

Manufacturer	Manufacturer Part Number		
Lutron	Visit www.lutron.com/ advance for a list of dimmers (Mark VII) that will work with sthis driver		
Leviton	IllumaTech IP7 series		
Advance	Sunrise - SR1200ZTUNV		



Driver Current Cutback

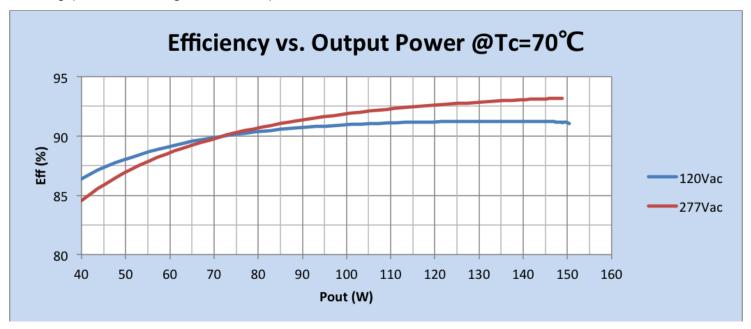
The Driver Current Cutback feature provides for an increased output voltage with a reduced output current during abnormal LED operation, such as cold weather starting.

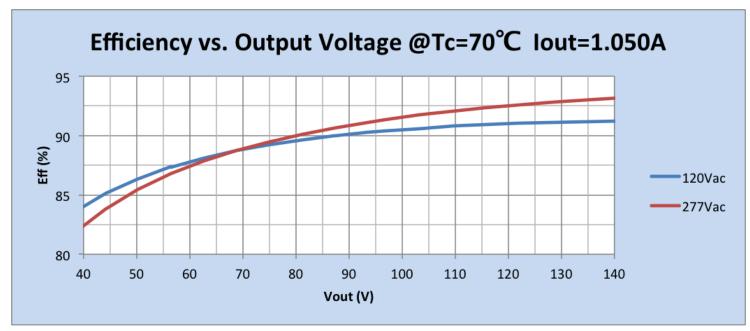


150W 120-277V 1.05A 0-10V

Performance Characteristics

Based on measurements on a typical sample. The accuracy of the measurements is within the tolerance of the measurement instruments. The graphs are meant to be a guideline and not a specification.

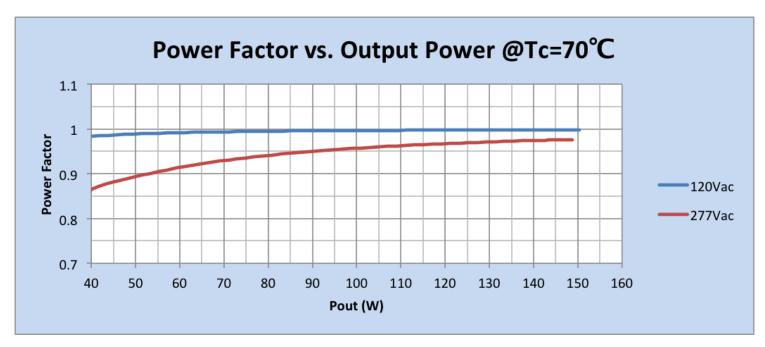


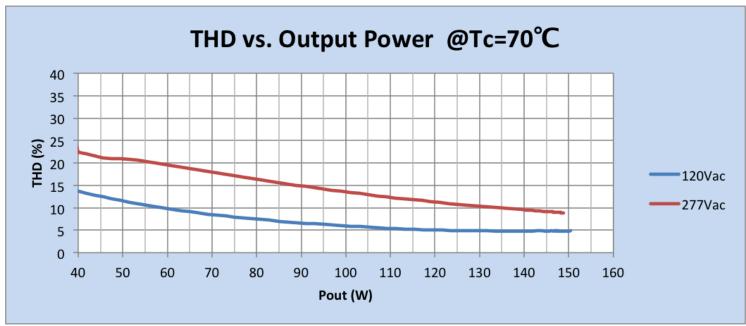


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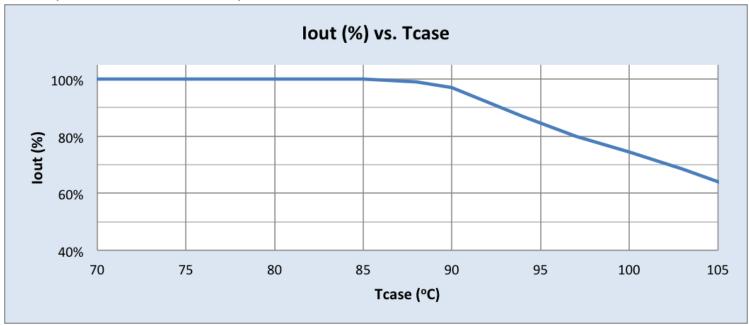


150W 120-277V 1.05A 0-10V

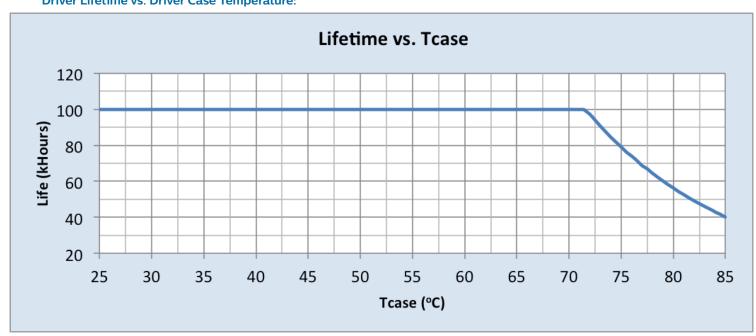
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Output Current vs. Driver Case Temperature:

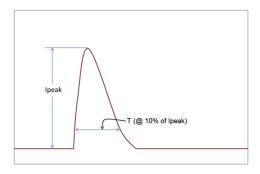


Driver Lifetime vs. Driver Case Temperature:



150W 120-277V 1.05A 0-10V

Inrush Current Info:



Vin	lpeak	T (@ 10% of Ipeak)	
120 Vac	57A	300µs	
277 Vac	132A	276µs	

Inrush current is measured at peak of the corresponding line voltage, source impedance per NEMA 410.

Lightning Surge Info:

ANSI Surge Type	Differential Mode (L-N)	Common Mode (L-G, N-G, L&N-G)		
1.2/50µs Combination	4kV	4kV		
Wave (w/t 2Ω)				

Isolation:

Isolation	Input	Output	0-10V (Class 1 & 2)	Enclosure
Input	NA	2xU+1kV	2.5KVac	2xU+1kV
Output	2xU+1kV	NA	2.5KVac	2xU+1kV
0-10V (Class 1 & 2)	2.5KVac	2.5KVac	NA	2xU+1kV
Enclosure	2xU+1kV	2xU+1kV	2xU+1kV	NA



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