

by (s) ignify

LED Driver

Xitanium edge

XI095C210V050CNS2





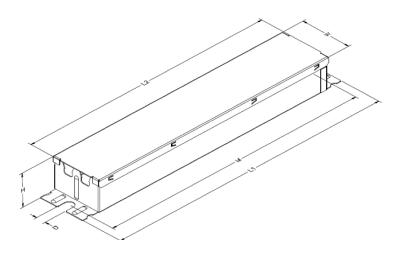
Advance Xitanium edge industrial LED drivers are designed to meet basic lighting needs in highbay applications. These dimmable drivers are offered with specific current settings and are optimized for use with Advance Fortimo edge modules making LED conversion affordable.

Specifications

Input Volt. (Vac)	Output Power (W)	Output Volt. (V)*	Output Current (A)	Efficien- cy@ Max. Load and 75°C Case	Max. Case Temp. (°C)	Input Cur- rent (A)	Max. Input Power (W)	THD @ Max. Load (%)	Power Fac- tor @ Max. Load	Surge Pro- tection (Combi- Wave, KV)	Envir. Protection Rating	Dim	Dimming Range (with speci- fied dim- mers)	Min. Output Current (A)	Other Notes	Driver Type
120		30-50		88.5%	Life 85°C	0.93		<10%			UL damp	0-10V Analog	10% ~		Dimming source	Constant
277	95	Class 2 Output	2.1	89.5%	UL 90°C	0.4	108	<15%	>0.9	>6KV	& dry and Type HL	Class 1 and 2 Wiring	100%	0.21	current: 150 µA	Current

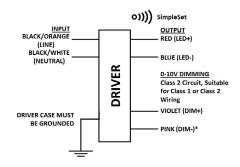
Enclosure

	In. (mm)
Case Length (L2)	8.44 (214.3)
Case Width (W)	1.70 (43.1)
Case Height (H)	1.13 (28.8)
Mounting Length (M)	8.91 (226.3)
Mounting Hole Diameter (D)	0.31 (7.9)
Overall Length (L1)	9.45 (240.0)



Wiring Diagram

Dimming	Wire Length (mm)
Black (Line)	270 (± 30)
White (Neutral)	270 (± 30)
Red (Positive, LED Output)	270 (± 30)
Blue (Negative, LED output)	270 (± 30)
Violet (Positive, 0-10V)	270 (± 30)
Pink (Negative, 0-10V)	270 (± 30)



WARNING:

Install in accordance with national and local electrical codes. The field-wiring leads or push-in terminals shall be fully enclosed.



95W 2.1A 50V 0-10V

Features

- · No programming necessary, fixed current, 0-10V dimming
- High efficiency target 88.5%
- UL Class 2 rated. Class P listing (UL, CSA, ETL)
- Tc 90°C max specification
- 6kV/3kA surge rating ANSI C82.77-5

Benefits

- · High reliability and performance specifications
- \cdot Class 2 output to simplify isolation requirements

Application

· Linear high-bay luminaires

Electrical Specifications

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

Product Data

Order Information						
Full Product Code	XI095C210V050CNS2 (12NC= 929001759313)					
Line Frequency	50/60Hz					
Min. Mains Voltage Operational	108 Vac					
Max. Mains Voltage Operational	305 Vac					
Output Information						
Maximum Open Circuit Voltage	<60Vdc (Class 2 output)					
Output Current Ripple (in CC mode) (ripple = peak to average / average)	15% max. @ max. lout					
Output Current Tolerance (at maximum output current)	<5%					
Protections	Short Circuit and Open Circuit Protection for LED + and LED-, Overheat Protection					
Features						
O-10V Dimming ³	150μA (±3%) source current from driver. See dim curve for detail.					
Environment & Approbation						
Operating Ambient Temp. Range	-40°C to +60°C					
Max. Case Temperature (Tcase)	90°C					
Agency Approbations	UL 8750, NOM, cUL					
Electromagnetic Compliance	FCC Title 47 Part 15 Class A					
Audible Noise	<24dB Class A					
Weight	1.32 Lbs / 0.6 kgs					

 $Advance\ Xitanium\ LED\ drivers\ are\ manufactured\ to\ engineering\ standards\ correlating\ to\ a\ designed\ and\ average\ life\ expectancy\ of\ 50,000\ hours\ of\ operation$ at maximum rated case temperature. Minimum 90% survivals based on MTTF modeling.

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0-10V Dimming Curve

Dimming source current from the driver: $150\mu A$ (@ 0<Vdim<8V)

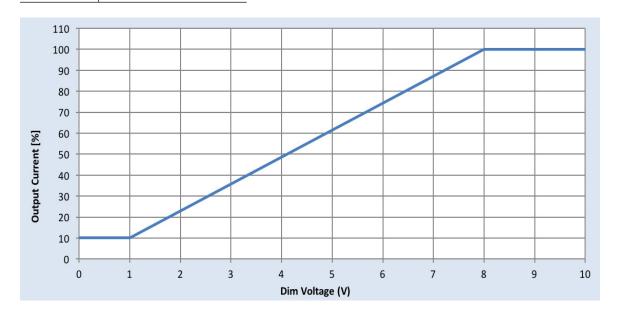
Minimum dim level: 10% (minimum 210mA)

Maximum output voltage on the dimming wires: 12V

Control Lead Leakage Current: 0.01mA, recommend max number of control circuits in parallel refer to Design-in Guide

Approved Dimmer List

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

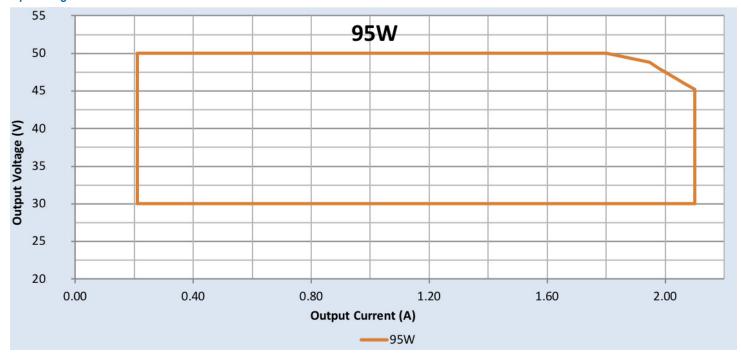


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Operating Window

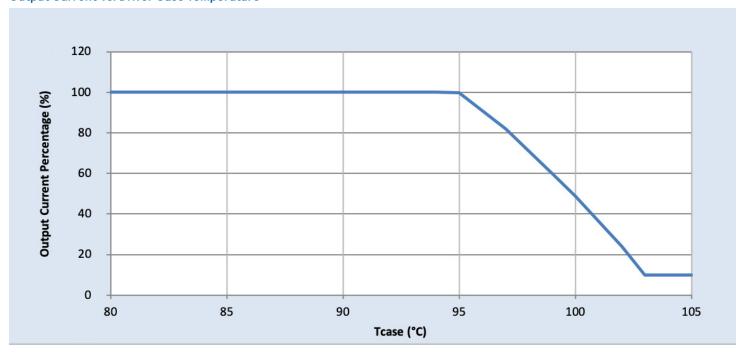


95W 2.1A 50V 0-10V

Electrical Specifications

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Output Current Vs. Driver Case Temperature



Note

There is $\pm 5^{\circ}$ C tolerance on the driver case temperature.

Driver Lifetime Vs. Driver Case Temperature

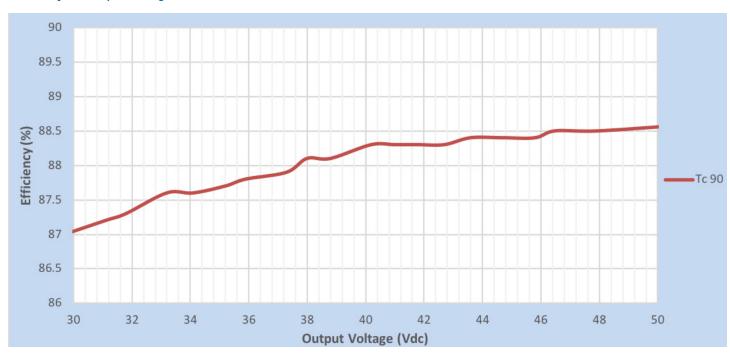


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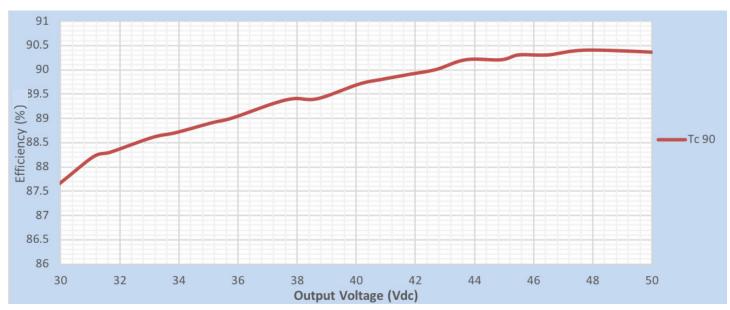
Performance Characteristics

Based on measurements on a typical sample at 75° C case. The accuracy of the measurements is within the tolerance of the measurement instruments.

Efficiency Vs. Output Voltage at 120Vac



Efficiency Vs. Output Voltage at 277Vac

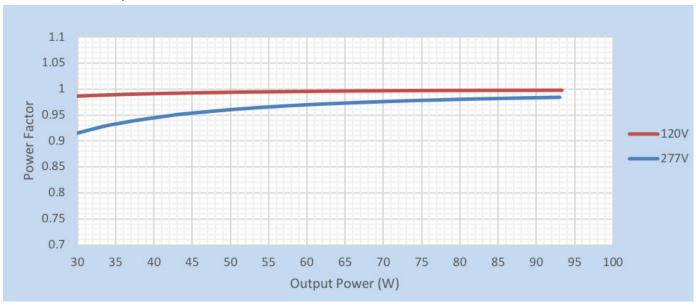


95W 2.1A 50V 0-10V

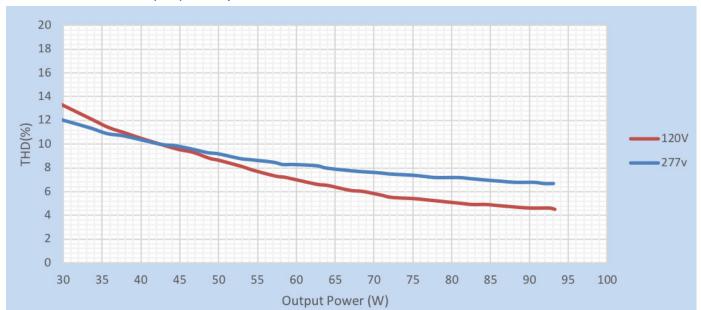
Performance Characteristics

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Power Factor Vs. Output Power

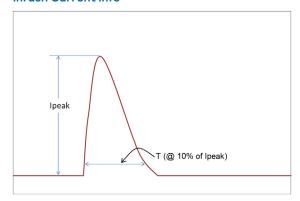


Total Harmonic Distortion (THD) Vs. Output Power



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Inrush Current Info



Vin	lpeak	T (@ 10% of Ipeak)		
120 Vrms	34.5A	184µS		
277 Vrms	83.2A	179µS		

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 Wave (w/t 2Ω)	6kV	6kV

Isolation

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

U=Max. Working Voltage

The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract.

