ADVANCE

by (signify

LED Driver

Xitanium

XI095C275V054BSF2



Advance Xitanium outdoor LED drivers are long-lasting and low maintenance, LED-based light sources are an excellent solutionfor all lighting applications. For optimal performance, these solutions require reliabledrivers 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

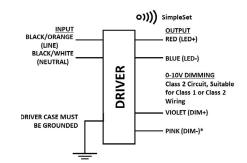
Input Volt- age (Vac)	Output Power (W)	Output Volt- age (V)	Output Current (A)	Efficiency @ Max Load and 75°C Case	Max Case Temp. (°C)	Input Current (A)	Max. Input Power (W)	THD @ Max Load (%)	Power Factor @ Max Load	Surge Pro- tection (Combi- Wave, KV)	Envir. Protection Rating	Dim	Dimming Range (with specified dimmers)	Min. Output Current (A)	Driver Type
120	95	20-54	88.4	Life - 85°C	0.89	110	100/	. 0.05		UL damp	0-10V Analog	nalog	0.00	Constant	
277		Class 2 Output		89.8	UL - 90°C	0.38	110	<10%	>0.95	6	& dry and Type HL	Class 1 and 2 Wiring	5% ~ 100%	0.03	Current

Enclosure

	In. (mm)
Case Length (L2)	8.30 (210.8)
Case Width (W)	2.21 (56.2)
Case Height (H)	1.48 (37.6)
Mounting Length (M)	8.91 (226.3)
Mounting Width (M2)	1.69 (42.9)
Overall Length (L1)	9.43 (239.5)
Center of SimpleSet Antenna (L3)	4.41 (112.1)

Wiring Diagram

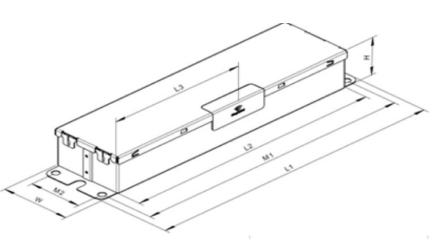
Dimming	Wire Length (mm)
Black (Line)	270 (± 30)
White (Neutral)	270 (± 30)
Red (Positive, LED Output)	270 (± 30)
Blue (Negative, LED output)	270 (± 30)
Violet (Positive, 0-10V)	270 (± 30)
Pink (Negative, 0-10V)	270 (± 30)



WARNING:

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





Features

- 50,000+ hour lifetime¹
- Programmable output current through SimpleSet
- Large operating window
- 6kV combi-wave surge rating to comply with ANSI C82.77-5 CAT C low

Electrical Specifications

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

Benefits

- Designed for Class 2 luminaires
- $\boldsymbol{\cdot}$ Fast and simple way of programming
- Perfectly suited for COB applications up to 2.6A
- Industry leading dimming range for 95W Class 2 product
- No external surge protection required to pass C82.77-5 CAT C low

Application

- Area
- ・Roadway
- Parking garages
- Floodlights
- High-bay and mid-bay fixtures

Product Data

Order Information				
Full Product Code	XI095C275V054BSF2 (Mid-Pack, 10pcs/Box), 12NC: 929001782413			
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 (ripple = peak to average / average)	15% max @ max lout (Low frequency ripple (≤120Hz) content <5%)			
Output Current Tolerance (in performance window)	<5%			
Protections	Short Circuit, Open Circuit Protection for LED + and LED - and Temperature Foldback			
Features				
0-10V Dimming	150μA (±3%) source current from driver. See dim curve for detail.			
AOC (Adjustable Output Current)	0.1A-2.75A via SimpleSet (Factory Default at 2.3A)			
Additional SimpleSet Configurable Features	Adjustable Min Dim level, Adjustable Lumen Output, Adjustable Lumen Output Min, OEM Write Protection			
Environment & Approbation				
Operating Ambient Temp. Range	-40°C to +55°C			
Max Case Temperature (Tcase)	90°C			
Agency Approbations	UL8750, NOM, cUL, Class P(UL, cUL)			
Electromagnetic Compliance	FCC Title 47 Part 15 Class A for 120-277 AC Mains input.			
Audible Noise	<24dB Class A			
Weight	2.1 Lbs / 0.95 kgs			

1. 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: 150µA (@ 0<Vdim<8V)

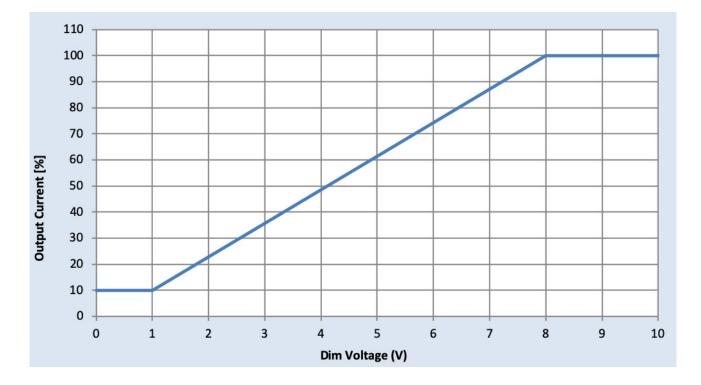
Minimum dim level: Factory default 10% of lout setting as default

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

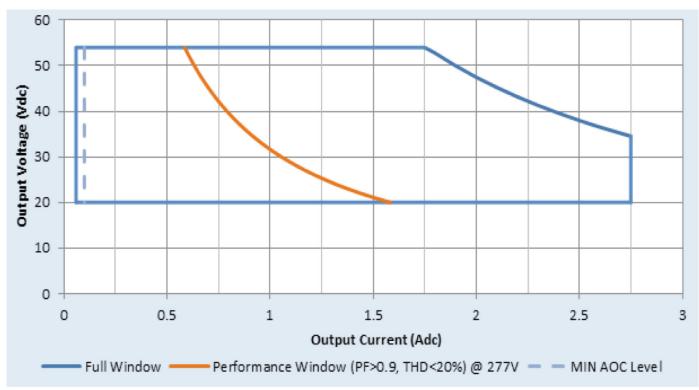
Manufacturer	Manufacturer Part Number		
Lutron	Visit www.lutron.com/ advance for a list of dimmers (Mark VII) that will work with this driver		
Leviton	IllumaTech IP7 series		
Advance	Sunrise - SR1200ZTUNV		



Electrical Specifications

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Driver Output Window



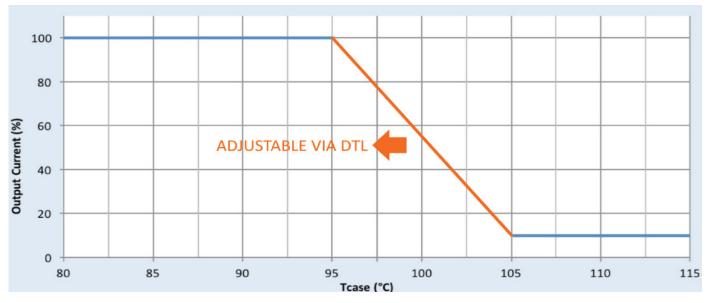
Notes

- 1. Factory default output current is 2.3A.
- 2. To get a 100% to 5% dimming range, the output current setting through AOC should be \geq 600mA.
- 3. Factory default minimum dimming level is 10%. This can be adjusted between 5% and 100% using Advance MultiOne.

Electrical Specifications

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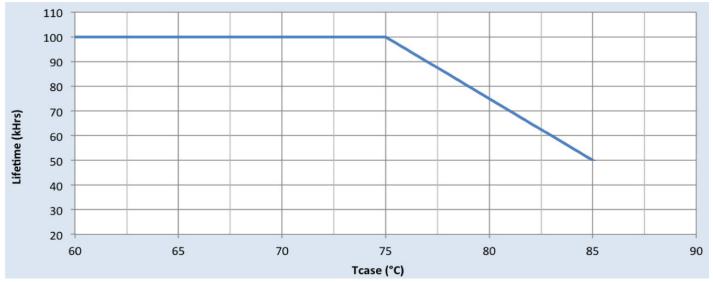
Output Current Vs. Driver Case Temperature



Note

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

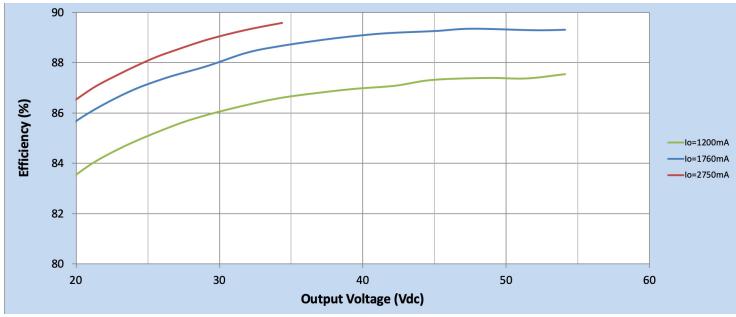


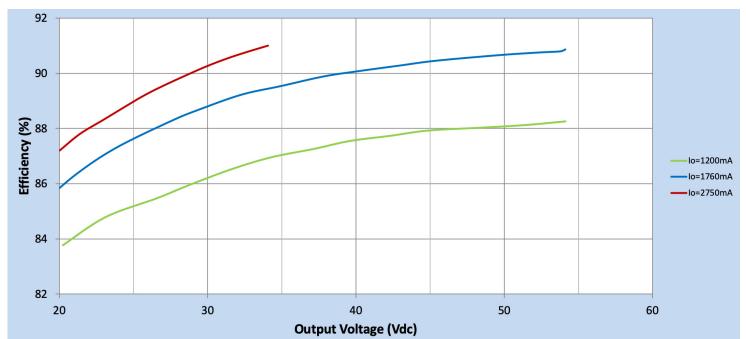


Performance Characteristics

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



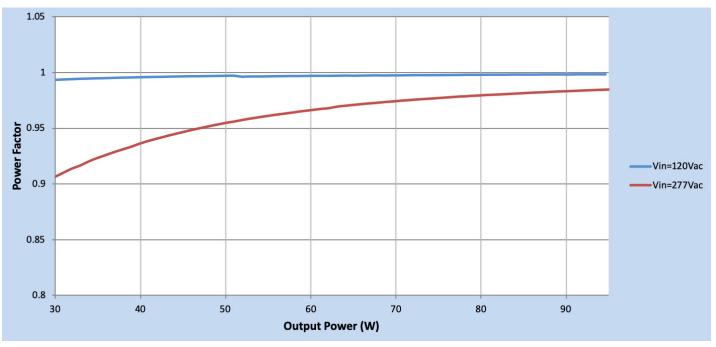


Efficiency Vs. Output Voltage at 277Vac

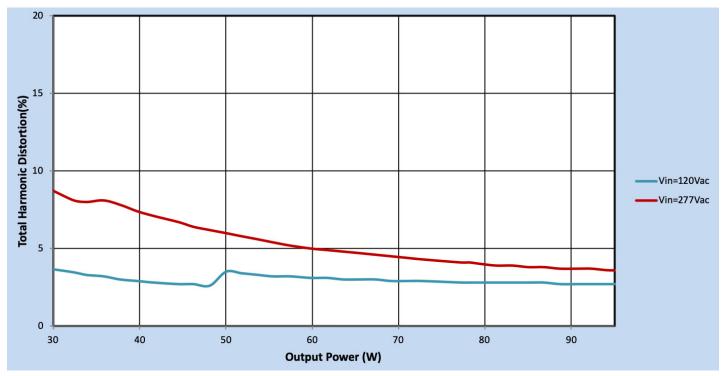
Performance Characteristics

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

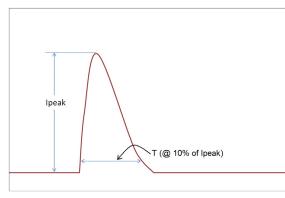
Power Factor Vs. Output Power



Total Harmonic Distortion (THD) Vs. Output Power



Inrush Current Info



Vin	lpeak	T (@ 10% of Ipeak)		
120 Vrms	35.9A	227µS		
277 Vrms	85.6A	222µS		

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	2.5kV	2.5kV	NA	2.5kV
Enclosure	2xU+1kV	2xU+1kV	2.5kV	NA

U = Max. input voltage

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