

by (Signify

LED Driver

Xitanium





XI100C110V143BSY1

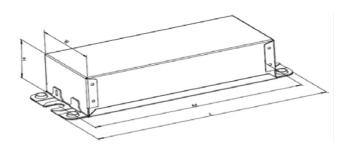
Advance Xitanium outdoor LED drivers with SimpleSet technology are designed to give OEMs ultimate flexibility. With the drivers' wide operating windows and simple programming, luminaire manufacturers can design luminaires of different sizes and lumen levels for outdoor applications.

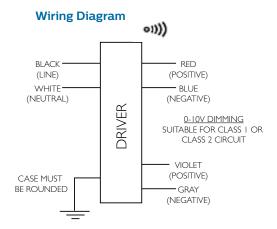
Specifications

Input Voltage (Vac)	Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency@ Max Load and 70°C Case	Max Case Temp. (°C)	Input Current (A)	Max. Input Power (W)	THD @ Max Load (%)	Power Factor @ Max Load	Surge Protection (Combi- Wave, KV)	Envir. Protection Rating
120	100	48-143 0.1 - 1.1 89.5 85°C 0.94 0.42	01 11	89.5	05°C	0.94	114	4 <10%	10% >0.95	6	UL damp & dry and
277	100		0.42	114	10%	20.95		Type HL			

Enclosure

	In. (mm)
Case Length (L2)	5.43 (138.0)
Case Width (W)	2.32 (58.8)
Case Height (H)	1.48 (37.6)
Mounting Length (M)	6.03 (153.2)
Overall Length (L1)	6.59 (167.5)
Center of SimpleSet Antenna (L3)	2.71 (68.9)





Dimming	Dimming Range (with specified dimmers)	Minimum Output Current (A)	
0-10V Analog Class 1 and 2 Wiring	10% ~ 100%	0.03	







100W 0.1-1.1A 0-10V with SimpleSet

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

Benefits

- · Enables long life luminaire designs
- · Fast and simple way of programming
- Enables fixture designs with wide variety of loads and adjustable current options
- No external surge protection required to pass C82.77-5 CAT C low

Application

- · Area
- · Roadway
- · Parking garages
- Floodlights
- · Mid-bay and low-bay fixtures

Electrical Specifications

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

Product Data

Order Information					
Full Product Code	XI100C110V143BSY1M (Mid-Pack, 12pcs/Box)				
Line Frequency	50/60Hz				
Min. Mains Voltage Operational	108 Vac				
Max. Mains Voltage Operational	305 Vac				
Output Information					
Maximum Open Circuit Voltage	190Vdc				
Output Current Ripple (ripple = peak to average / average)	15% max @ max lout				
Output Current Tolerance (In the performance window)	<5%				
Protections	Short Circuit, Open Circuit Protection for LED + and LED –				
Features					
0-10V Dimming	150μA (±3%) source current from driver. See dim curve for detail				
AOC (Adjustable Output Current)	0.1A-1.1A via SimpleSet (Factory Default at 1.05A)				
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)	85°C				
Agency Approbations	UL Listed, ETL Class P, CSA				
Electromagnetic Compliance	FCC Title 47 Part 15 Class A				
Audible Noise	<24dB Class A				
Weight	1.44 Lbs / 0.65 kgs				
Operating Ambient Temp. Range Max Case Temperature (Tcase) Agency Approbations Electromagnetic Compliance Audible Noise	85°C UL Listed, ETL Class P, CSA FCC Title 47 Part 15 Class A <24dB Class A				

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 MTBF modeling.

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0-10V Dimming Curve

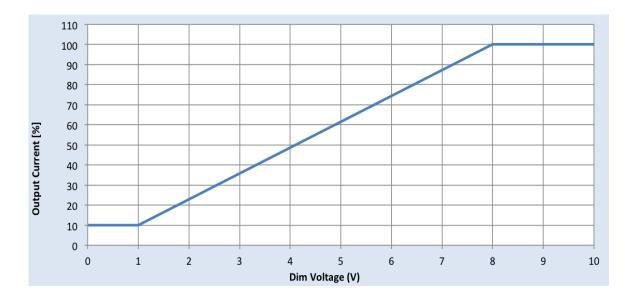
Dimming source current from the driver: 150µA (@ 0<Vdim<8V)

Minimum Dim Level: Factory default 10% of lout (minimum 100mA), can be programmed to a higher level via SimpleSet

Maximum output voltage on the dimming wires: 12V

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		

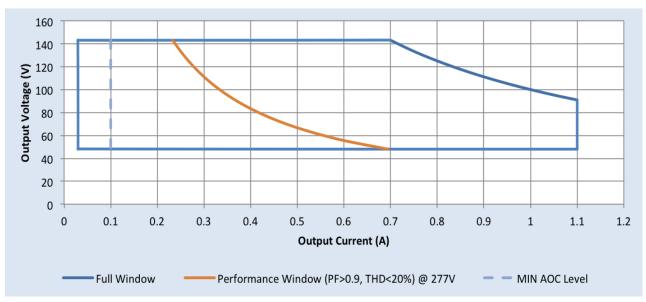


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Driver Output Window



Notes

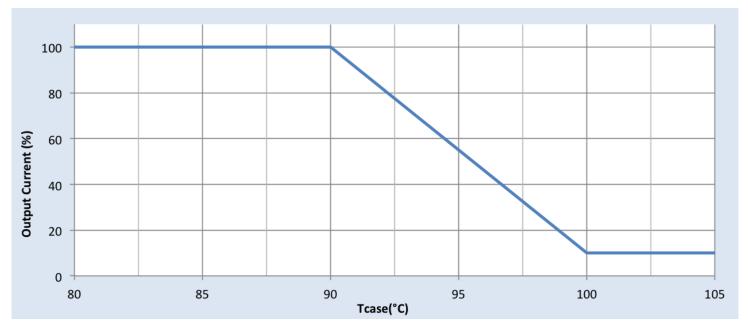
- 1. Factory default output current is 1.05A.
- 2. To get a 100% to 10% dimming range, the output current setting through AOC should be > 0.3A.

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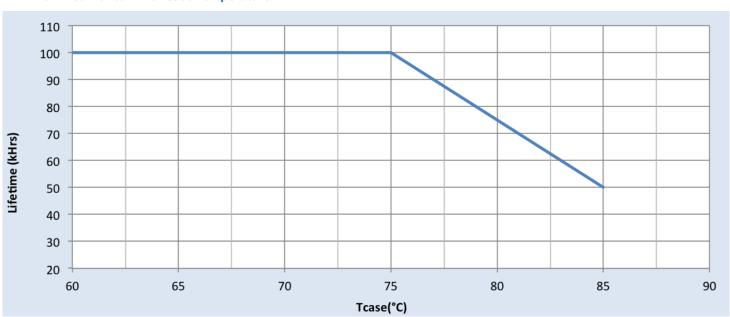
Output Current Vs. Driver Case Temperature



Note

There is ±5°C tolerance on the driver case temperature

Driver Lifetime vs. Driver Case Temperature

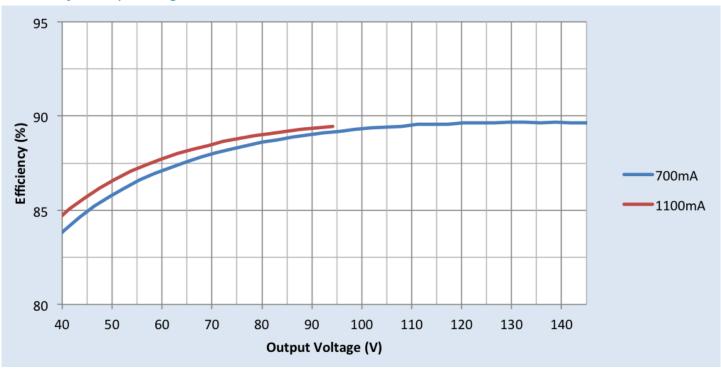


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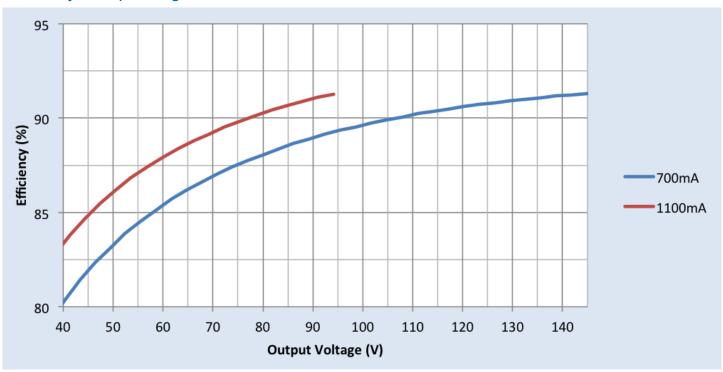
Performance Characteristics

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

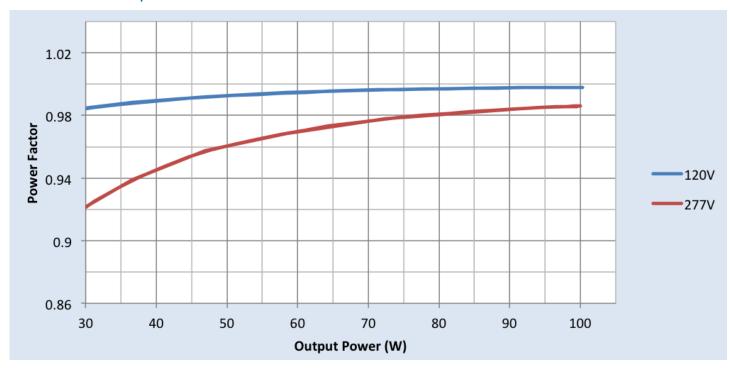


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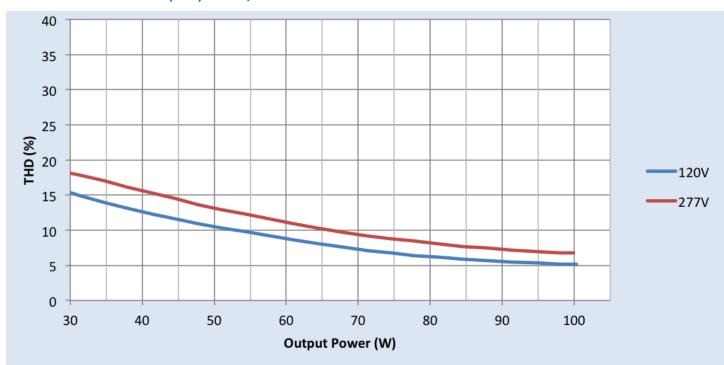
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Power Factor Vs. Output Power

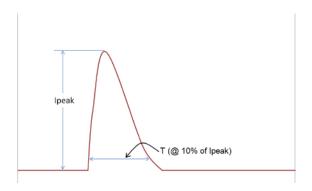


Total Harmonic Distortion (THD) Vs. Output Power



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Inrush Current Info



Vin	lpeak	T (@ 10% of Ipeak)	
120 Vrms	57A	166µs	
277 Vrms	135A	160µs	

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)	
1.2/50 μ s Combination Wave (w/t 2 Ω)	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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