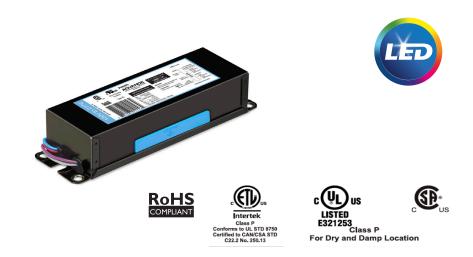


## LED Driver

### Xitanium

100W 0.1-1.1A 0-10V with SimpleSet XI100C110V143BSY1



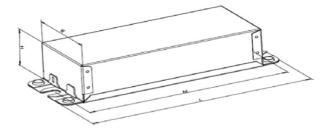
Philips Advance Xitanium outdoor LED drivers with SimpleSet technology are designed to give OEMs ultimate flexibility. With the drivers' wide operating windows and simple programming, luminaire manufacturers can design luminaires of different sizes and lumen levels for outdoor applications.

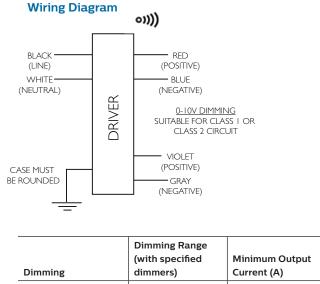
#### **Specifications**

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	3 0.1 - 1.1	89.5	85°C 0.94 0.42	0.94	114	<10%	>0.95	C	UL damp & dry and
277				91.2		0.42	114	<10%	~0.95	6	Type HL

### Enclosure

	In. (mm)
Case Length	5.43 (138.00)
Case Width	2.32 (59.00)
Case Height	1.50 (38.00)
Mounting Length	5.98 (152.00)
Overall Length	6.61 (168.00)





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

#### **Features**

- 50,000+ hour lifetime<sup>1</sup>
- 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
- $\cdot$  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				

 Philips 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.

#### **Electrical Specifications**

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

#### **0-10V Dimming Curve**

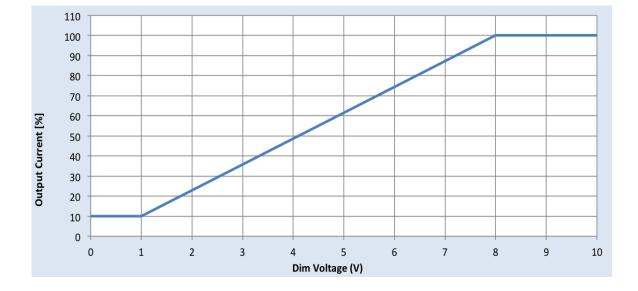
Dimming source current from the driver: 150µA (@ 0<Vdim<8V)

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**

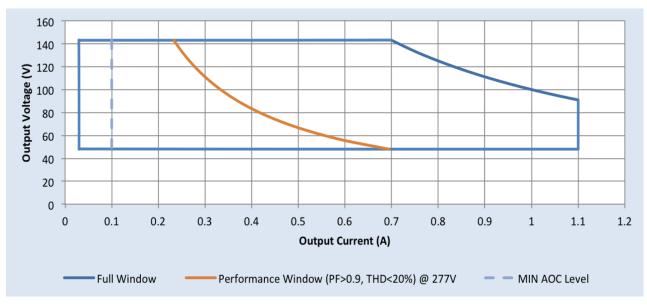
Manufacturer	Manufacturer Part Number		
Lutron	Visit www.lutron.com/ advance for a list of dimmers (Mark VII) that will work with this driver		
Leviton	IllumaTech IP7 series		
Philips	Sunrise - SR1200ZTUNV		



#### **Electrical Specifications**

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

#### **Driver Output Window**



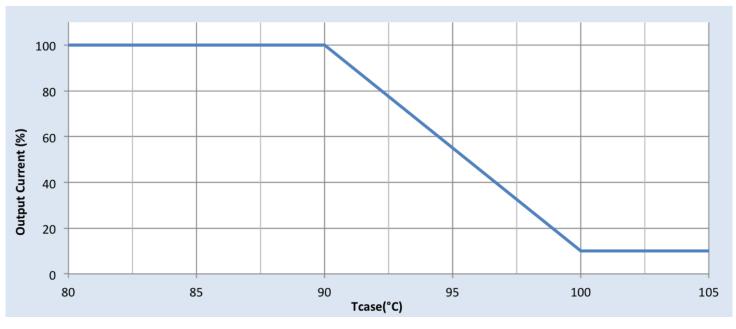
#### Notes

- 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.

#### **Electrical Specifications**

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

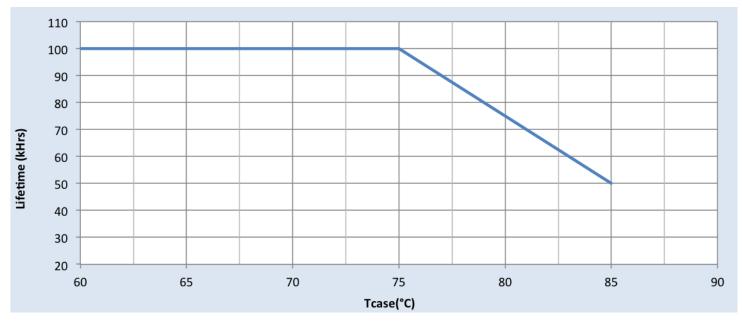
### **Output Current Vs. Driver Case Temperature**



### Note

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

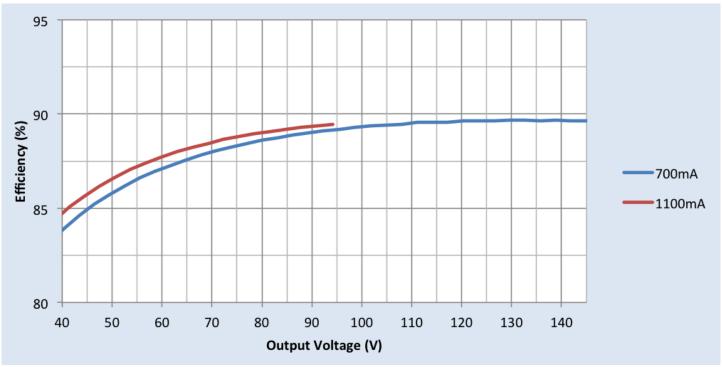
### Driver Lifetime vs. Driver Case Temperature



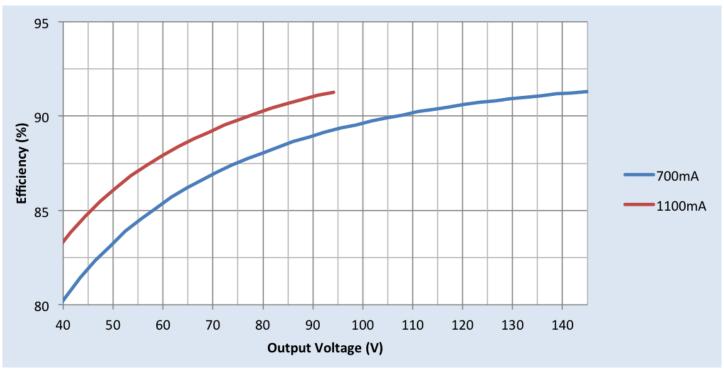
#### **Performance Characteristics**

Based on measurements on a typical sample at  $75^{\circ}$ C Case. The accuracy of the measurements is within the tolerance of the measurement instruments.

#### Efficiency Vs. Output voltage at 120Vac



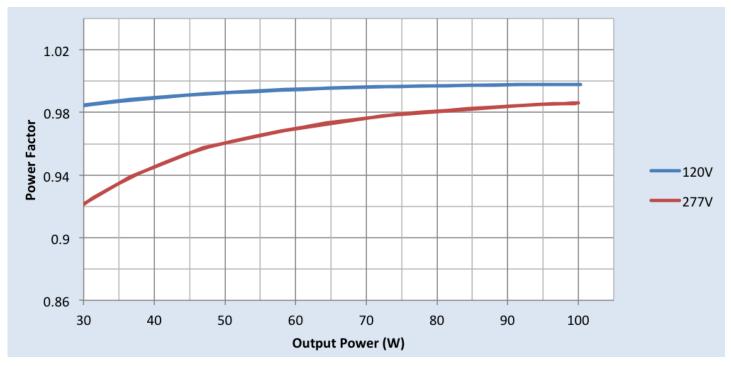
### Efficiency Vs. Output Voltage at 277Vac



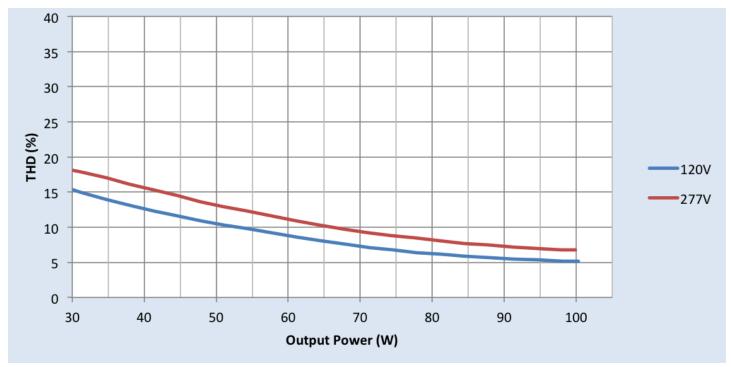
#### **Performance Characteristics**

Based on measurements on a typical sample at  $75^{\circ}$ C Case. The accuracy of the measurements is within the tolerance of the measurement instruments.

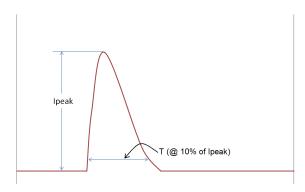
#### Power Factor Vs. Output Power



### Total Harmonic Distortion (THD) Vs. Output Power



#### **Inrush Current Info**



Vin	Ipeak	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)
1.2/50µs Combination Wave (w/t 2 $\Omega$ )	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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