



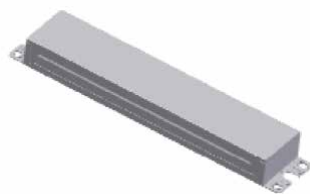
Long-lasting and low maintenance, LED-based light sources are an excellent solution for all lighting applications. For optimal performance, these solutions require reliable drivers matching the long lifetime of the LEDs. **The Advance Xitanium LED Outdoor Driver portfolio** offers a range of products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

### Specifications

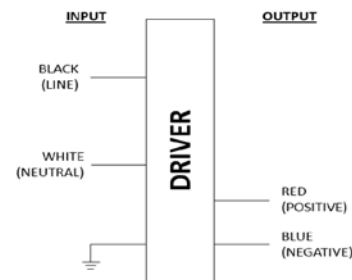
Input Voltage (Vac)	Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency@ Max Load and 70°C Case	Max Case Temp. (°C)	Input Current (A)	Max. Input Power (W)	THD @ Max Load (%)	Power Factor @ Max Load	Surge Protection (Combi-Wave, KV)	Envir. Protection Rating
120	80	24	0.8 -3.3	87	85°C	0.79	95	<20%	>0.95	2.5	UL damp & dry and Type HL

### Enclosure

	In. (mm)
Case Length	8.38 (211.8)
Case Width	1.76 (42.5)
Case Height	1.1 (27.9)
Mounting Length	8.99 (228.4)
Overall Length	9.45 (240)



### Wiring Diagram



Input and output use lead- wires.

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

Input Lead Length outside enclosure: 6" (+2"/-1").

Driver case must be grounded.



# Xitanium LED120A0024V33F

80W 120V 3.3A Fixed

## Features

- UL Class 2 output
- 50,000+ hour lifetime<sup>1</sup>

## Benefits

- Flexibility and ease of design for Class 2 luminaire designs
- Enables long life luminaire designs

## Application

- Signage
- Parking garages
- Wallpacks

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## Electrical Specifications

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

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## Product Data

Order Information	
Full Product Code	LED120A0024V33FM (Mid-Pack, 12pcs/Box)
Line Frequency	50/60Hz
Min. Mains Voltage Operational	108 Vac
Max. Mains Voltage Operational	132 Vac
Output Information	
Maximum Open Circuit Voltage	24Vdc
Output Current Ripple (ripple = peak to average / average)	<=35%
Protections	Short Circuit, Open Circuit Protection for LED + and LED -
Environment & Approbation	
Operating Ambient Temp. Range	-40°C to +60°C
Max Case Temperature (Tcase)	85°C
Environmental Protection Rating	UL dry and damp, Type HL
Agency Approbations	UL879, UL1012, UL935, (cRUs/CSA)
Electromagnetic Compliance	FCC Title 47 Part 15 Class A
Audible Noise	<24dB Class A
Weight	1.4Lbs/ .635kgs

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 MTBF modeling.

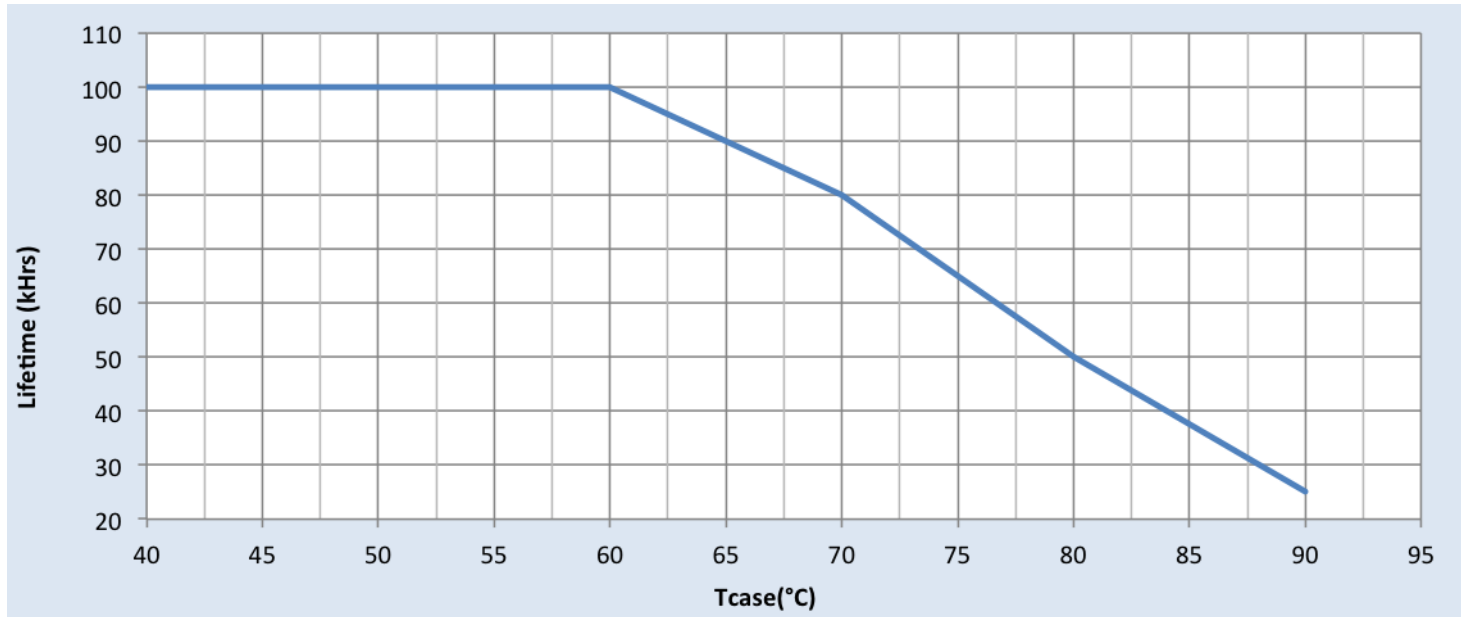
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80W 120V 3.3A Fixed

## Electrical Specifications

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## Driver Lifetime Vs. Driver Case Temperature



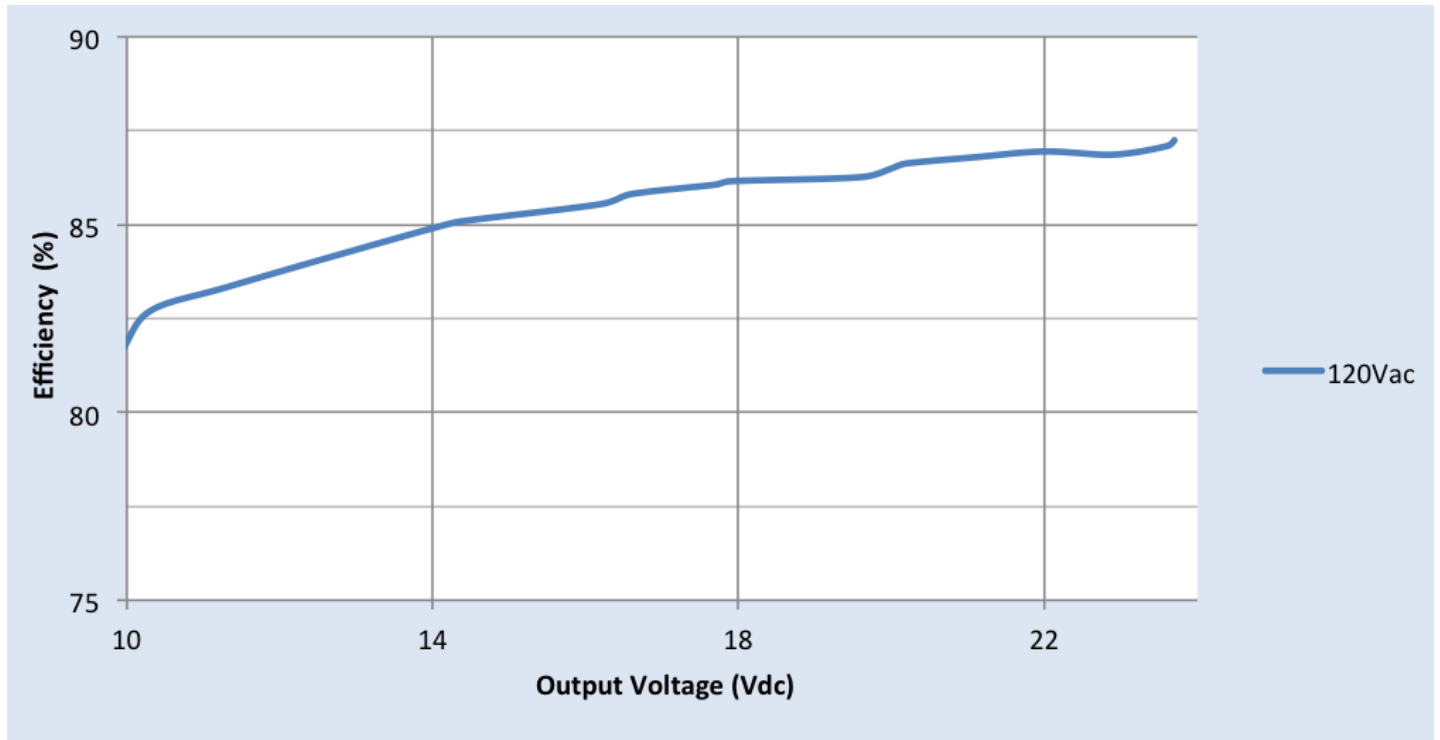
# Xitanium LED120A0024V33F

80W 120V 3.3A Fixed

## 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.

## Efficiency Vs. Output Voltage at Max Current



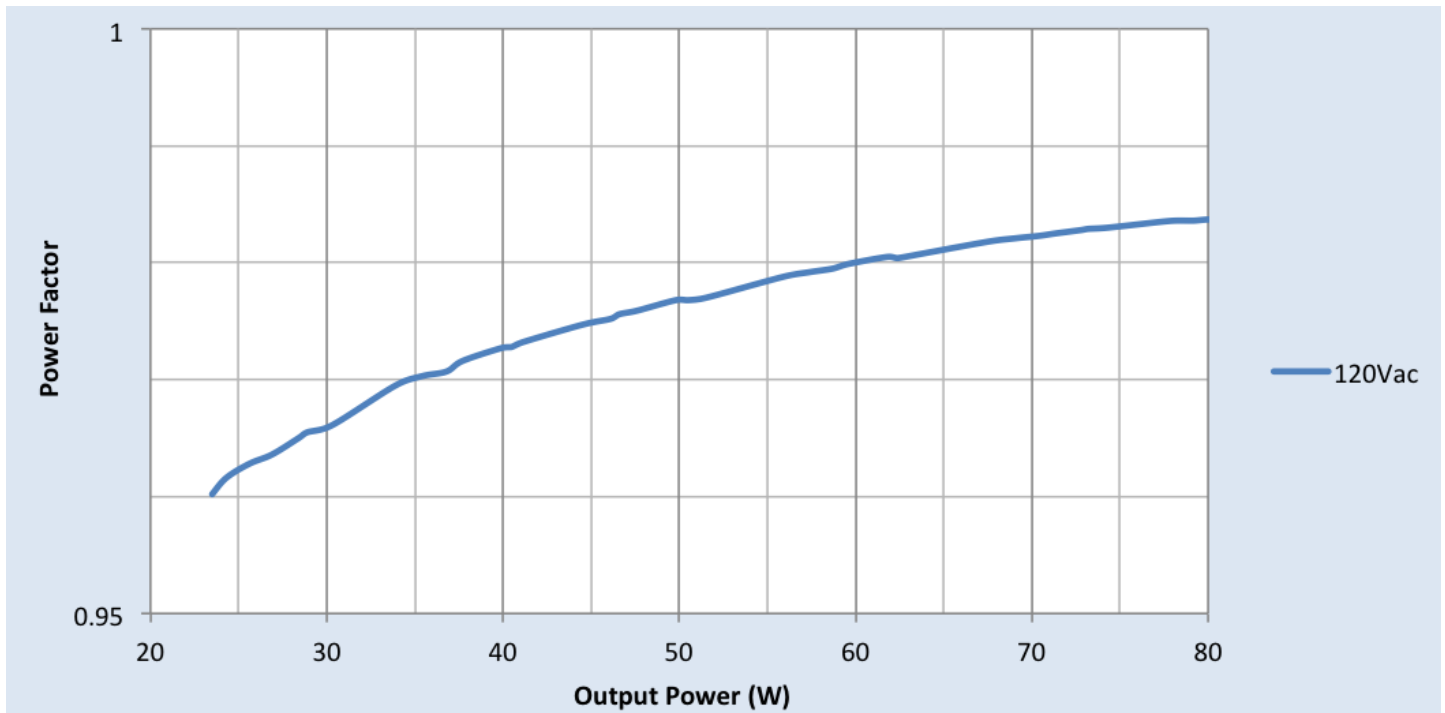
# Xitanium LED120A0024V33F

80W 120V 3.3A Fixed

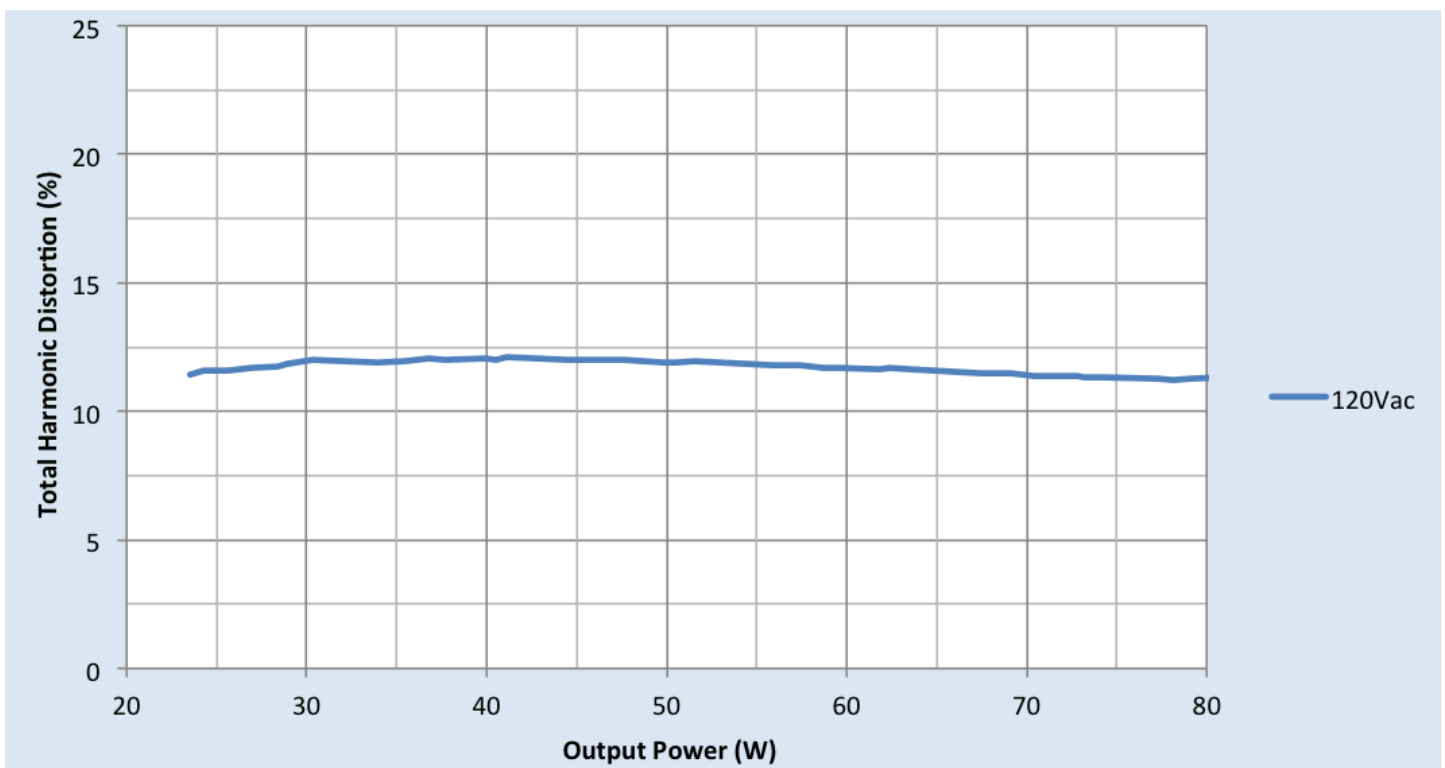
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### Power Factor Vs. Output Power



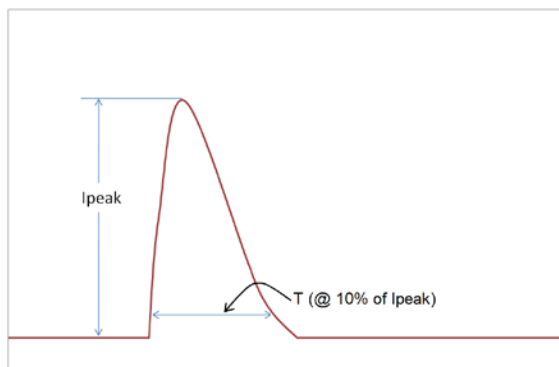
### Total Harmonic Distortion (THD) Vs. Output Power



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## Inrush Current Info



Vin	Ipeak	T (@ 10% of Ipeak)
120 Vrms	23A	61 $\mu$ S

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 $\mu$ s Combination Wave (w/t 2 $\Omega$ )	2.5kV	2.5kV

## Isolation

Isolation	Input	Output	Enclosure
Input	NA	2xU+1kV	2xU+1kV
Output	2xU+1kV	NA	500V
Enclosure	2xU+1kV	500V	NA

U = Max input voltage

## UL Conditions of Acceptability

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

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

