



The **Advance Xitanium** range of edge industrial LED Drivers are designed to provide OEMs with efficient solutions for Class 2 linear high bay luminaires. These models are compatible with standard 0-10V dimming systems to deliver reliably smooth dimming performance down to a minimum of 10%. Adjustable output current via the **SimpleSet Wireless** programming enables OEM's to use 1 driver for multiple lumen packages.

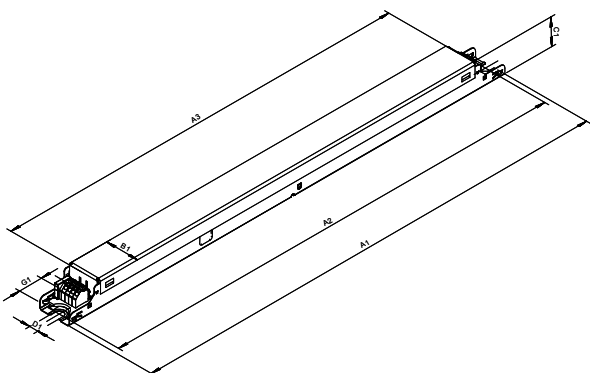
### Specifications

Input Voltage (Vac)	Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency@ Max. Load and 80°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	Dimming	Dimming Range (with specified dimmers)	Min. Output Current (A)
120	95	24 - 50	0.1 - 2.4	88.5	Life - 85°C UL - 90°C	0.9	108	<10	>0.95	6	UL Damp & Dry	0-10V Analog Class 1 and 2 Wiring	10% - 100%	0.05
277				89.5		0.39		<15						

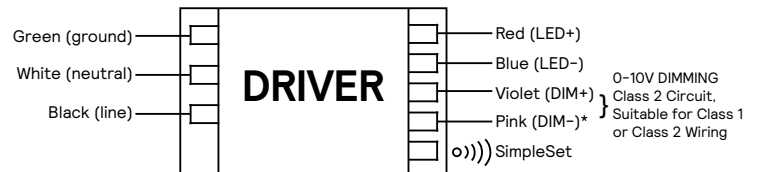
### Enclosure

	In. (mm)	Tolerance (mm)
Overall Length (A1)	16.69(424)	±0.5
Mounting Hole Distance (A2)	16.34(415)	±0.5
Case Length (A3)	14.49(368)	±0.5
Case Width (B1)	1.20(30.5)	±0.5
Case Height (C1)	1.02(25.8)	±1.0
Mounting Hole Diameter (D1)	0.31(7.9)	±0.3
Center of SimpleSet Antenna (G1)	0.76(19.4)	±3.0

### Mechanical Diagram



### Wiring Diagram



\*DIM- will change from GREY to PINK from 2021 onwards.

#### WARNING

- Install in accordance with national and local electrical codes.
- Use 18 AWG Solid Copper Wire Rated  $\geq 90^\circ\text{C}$ .
- Strip Wire 3/8".
- For Class 2 wiring, use 20 AWG-16 AWG.

#### GROUNDING

- Driver case must be grounded.

Dimming	Dimming Range	Minimum Output Current (A)	Other Comments
0-10V Suitable for Class 1 or Class 2 Wiring	10% - 100%	0.05	Dimming source current: 150uA (min 100uA, Max 250uA)

# Xitanium XI095C240V050BPT1

XIT Edge 95WBP 0.1-2.4A 24-50V Tcan 6kV

## Features

- 50,000+ hour lifetime<sup>1</sup>
- Programmable output current through SimpleSet
- 6kV/3kA Surge rating – ANSI C82.77-5

## Benefits

- Designed for Class 2 luminaires
- Fast and simple way of programming
- No external surge protection required to pass C82.77-5 CAT C low

## Application

- High-bay and mid-bay fixtures

## Electrical Specifications

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

## Product Data

Order Information	
Full Product Code	XI095C240V050BPT1 (Mid-Pack, 12 pcs/Box), 12NC: 929002724513
Line Frequency	50/60Hz
Min. Mains Voltage Operational	108Vac
Max. Mains Voltage Operational	305Vac
Output Information	
Maximum Open Circuit Voltage	<60Vdc
Output Current Ripple (ripple = peak to average / average)	15% max @ max Iout (4% max @ Visible for stroboscopic Frequency range 60Hz-3KHz)
Output Current Tolerance	<5%
Protections	Short Circuit, Open Circuit Protection for LED + and LED - and mis-wiring protection
Features	
0-10V Dimming Interface current	150uA (min 100uA, Max 250uA for dimming voltage>1V)
0-10V Active Range	1V to 8V. See dim curve for details.
AOC (Adjustable Output Current)	0.1A-2.4A via SimpleSet programming( refer to graph and notes below, Factory Default at 2.4A)
Additional SimpleSet Configurable Features	Adjustable Output Current (AOC) OEM Write Protection (OWP)
Environment & Approbation	
Operating Ambient Temp. Range	-40°C to +55°C
Max Case Temperature (Tcase)	90°C
Agency Approbations	UL8750, CSA-C22.2 No. 250.13, NOM, Class P(ETL, cUL , UL)
Leakage current of dimming leads	0.005mA, recommended max number of control circuits in parallel refer to Design-In Guide
Electromagnetic Compliance	FCC Title 47 Part 15 Class A
Audible Noise	<24dB Class A
Weight	0.79 Lbs / 0.5 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.

# Xitanium XI095C240V050BPT1

XIT Edge 95WBP 0.1-2.4A 24-50V Tcan 6kV

## Electrical Specifications

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## 0-10V Dimming

Dimming source current from the driver: 150uA (min 100uA, Max 250uA @ 0<Vdim<8V)

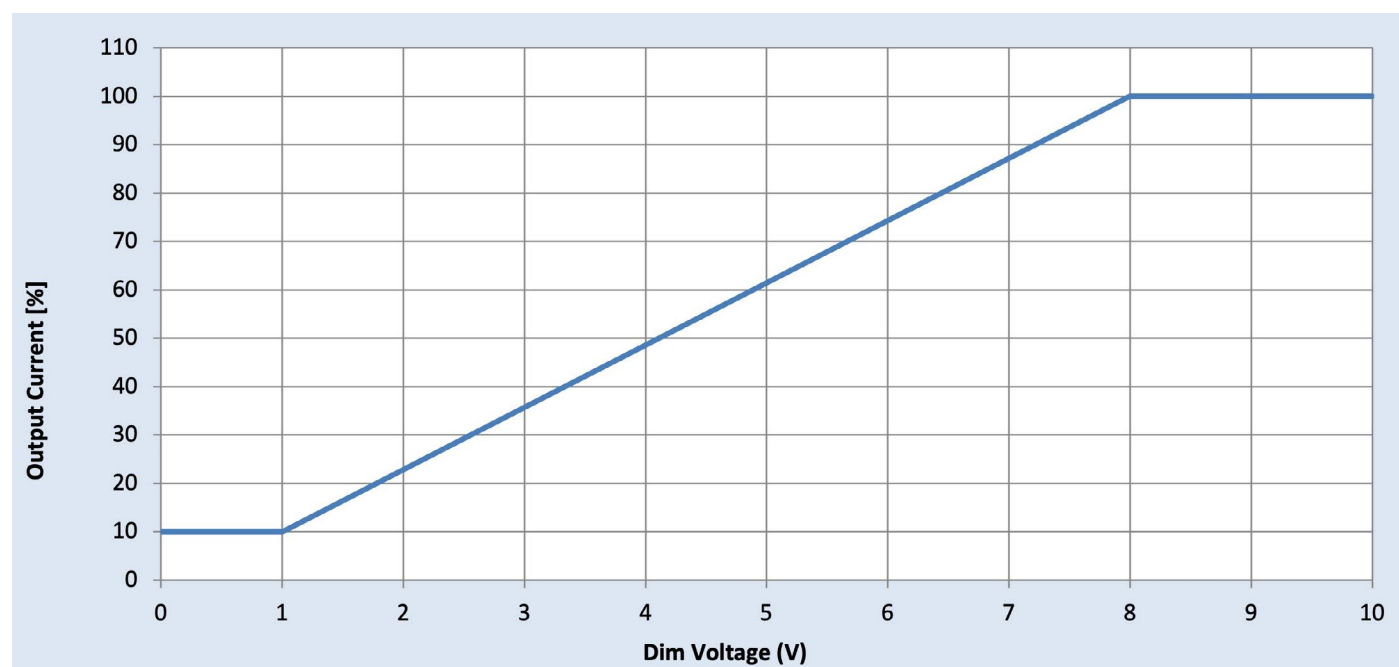
Minimum dim level: Factory default 10% of lout setting as default

Maximum output voltage on the dimming wires: 12V

## Approved Dimmer List

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

## 0-10V Dimming Curve



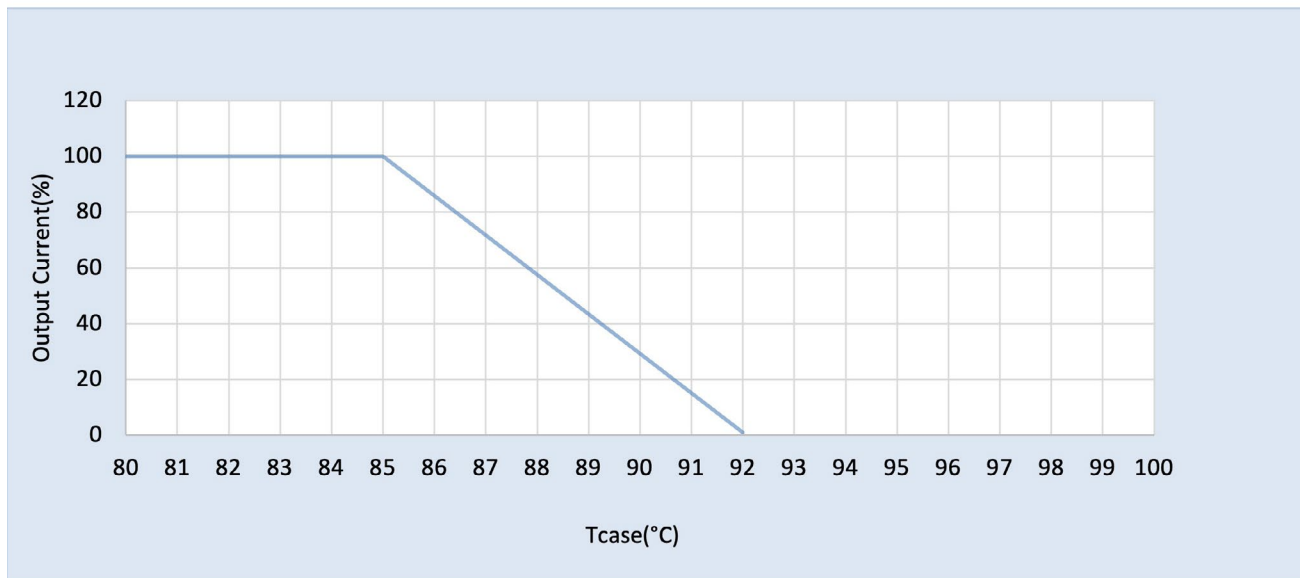
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XIT Edge 95WBP 0.1-2.4A 24-50V Tcan 6kV

## Performance Characteristics

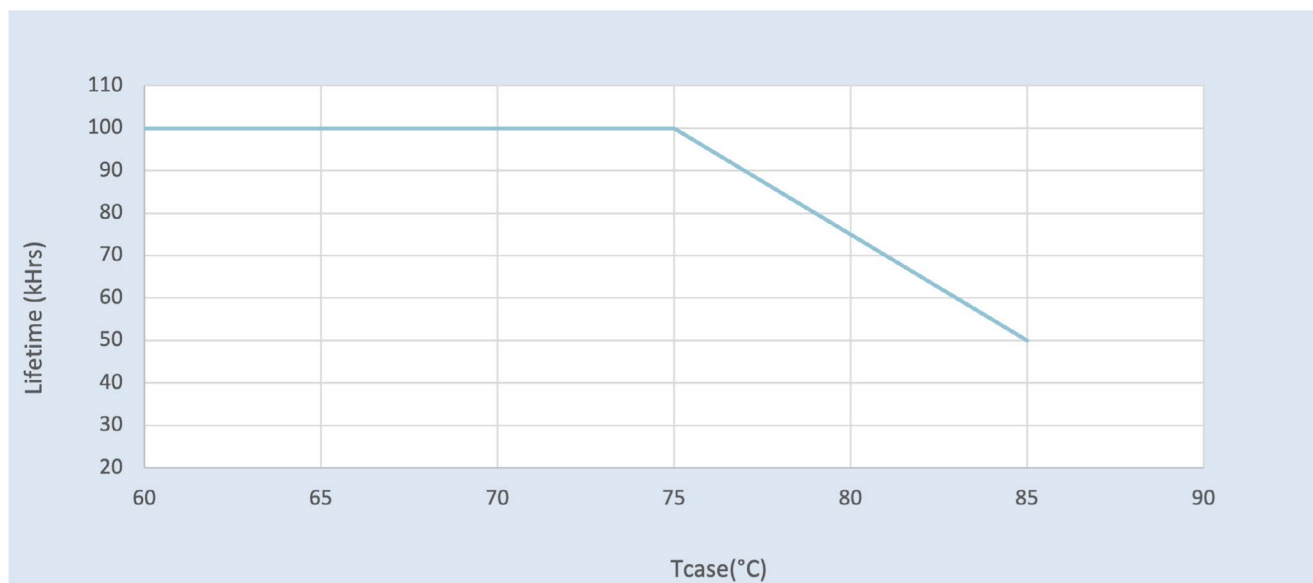
All the specifications are typical and at 25°C Tcase unless specified otherwise.

### Output Current Vs. Driver Case Temperature



**Note:** There is  $\pm 5^\circ\text{C}$  tolerance on the driver case temperature

### Driver Lifetime vs. Driver Case Temperature



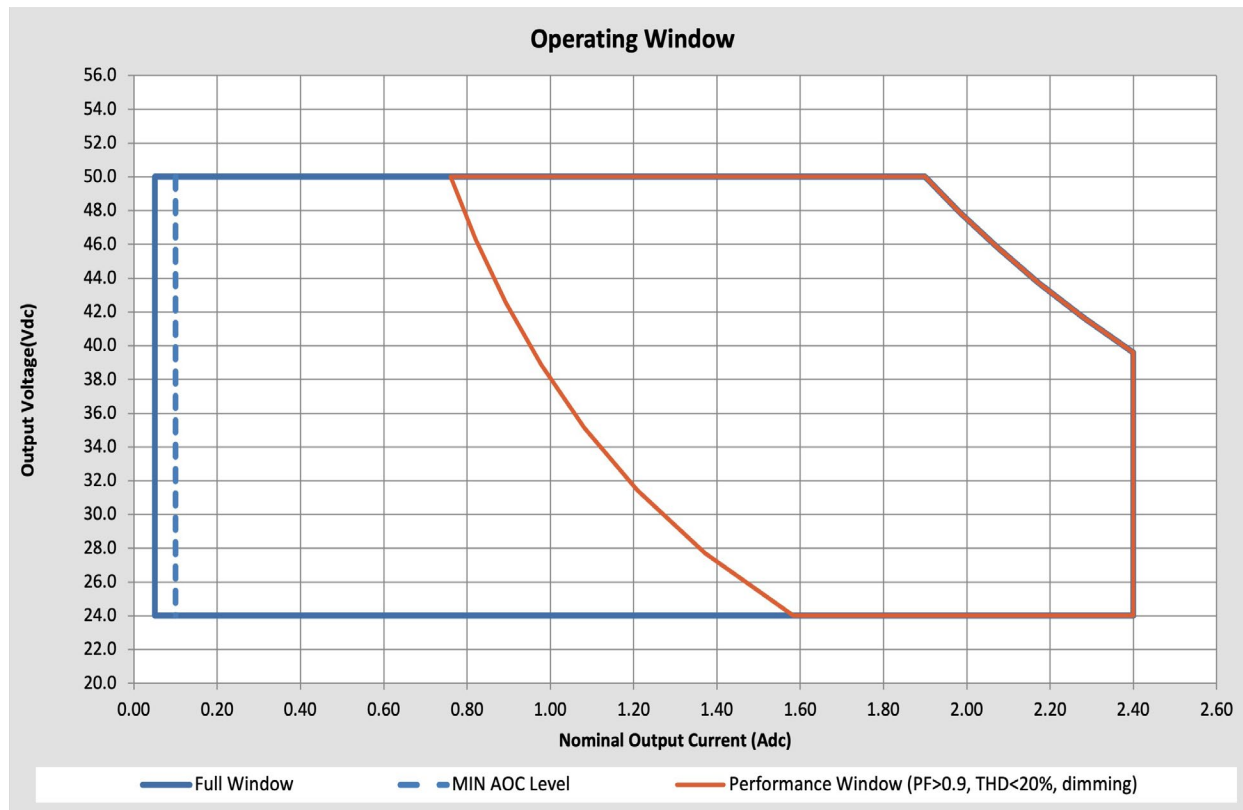
# Xitanium XI095C240V050BPT1

XIT Edge 95WBP 0.1-2.4A 24-50V Tcan 6kV

## Electrical Specifications

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## Operating Window



**Note:** Factory default output current is 2.4A

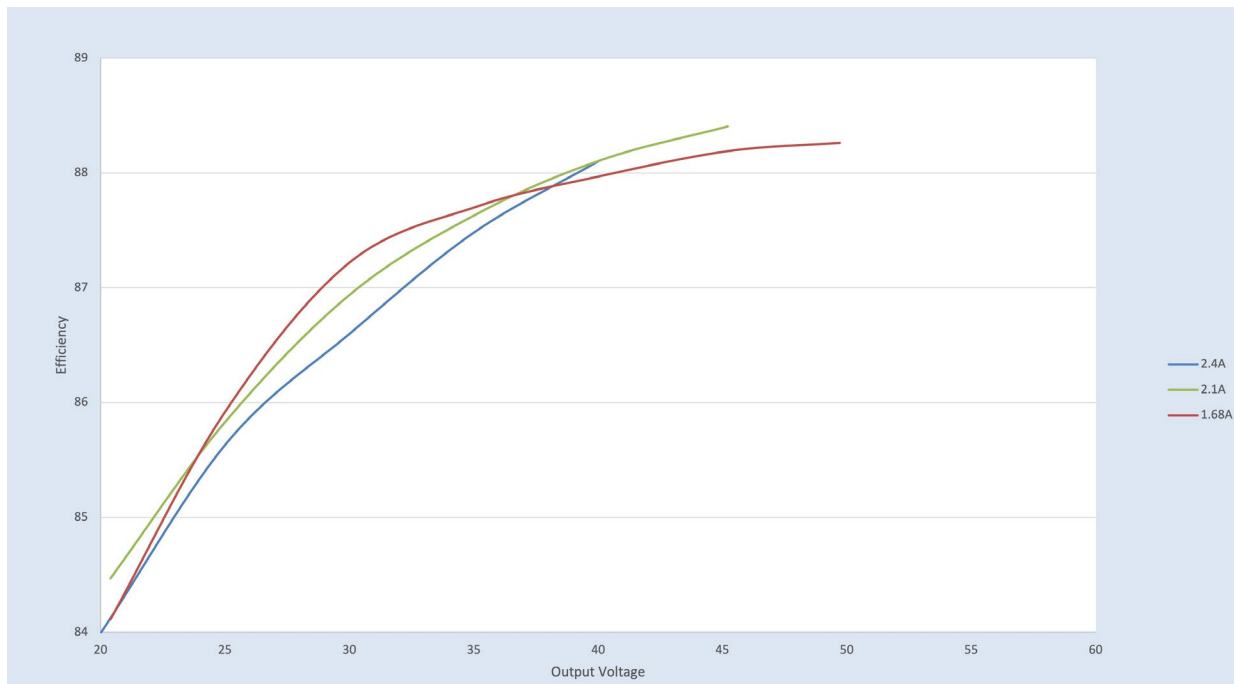
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XIT Edge 95WBP 0.1-2.4A 24-50V Tcan 6kV

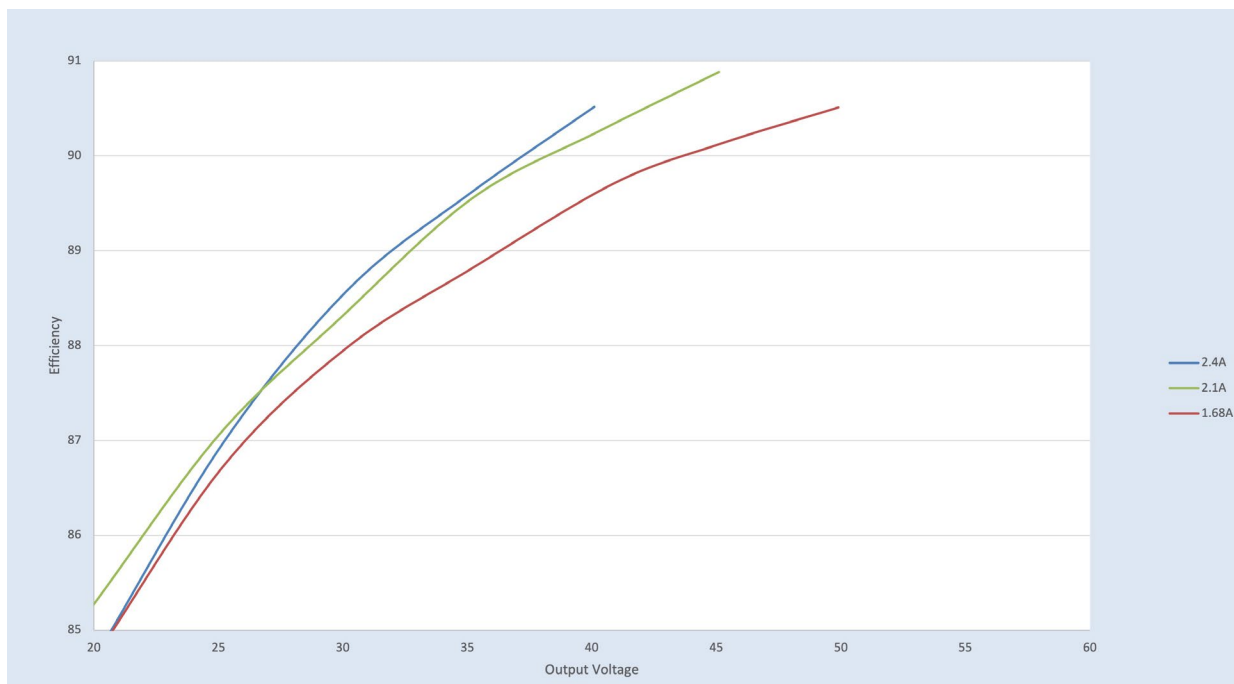
## Performance Characteristics

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 120Vac



### Efficiency Vs. Output Voltage at 277Vac



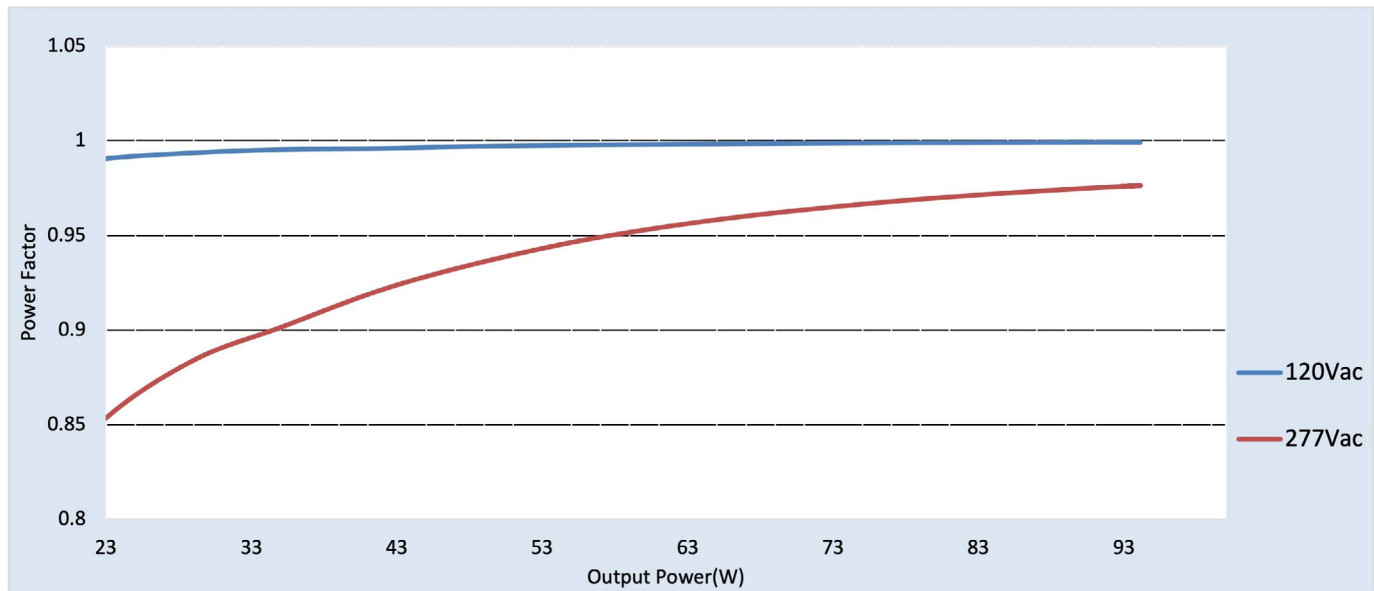
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XIT Edge 95WBP 0.1-2.4A 24-50V Tcan 6kV

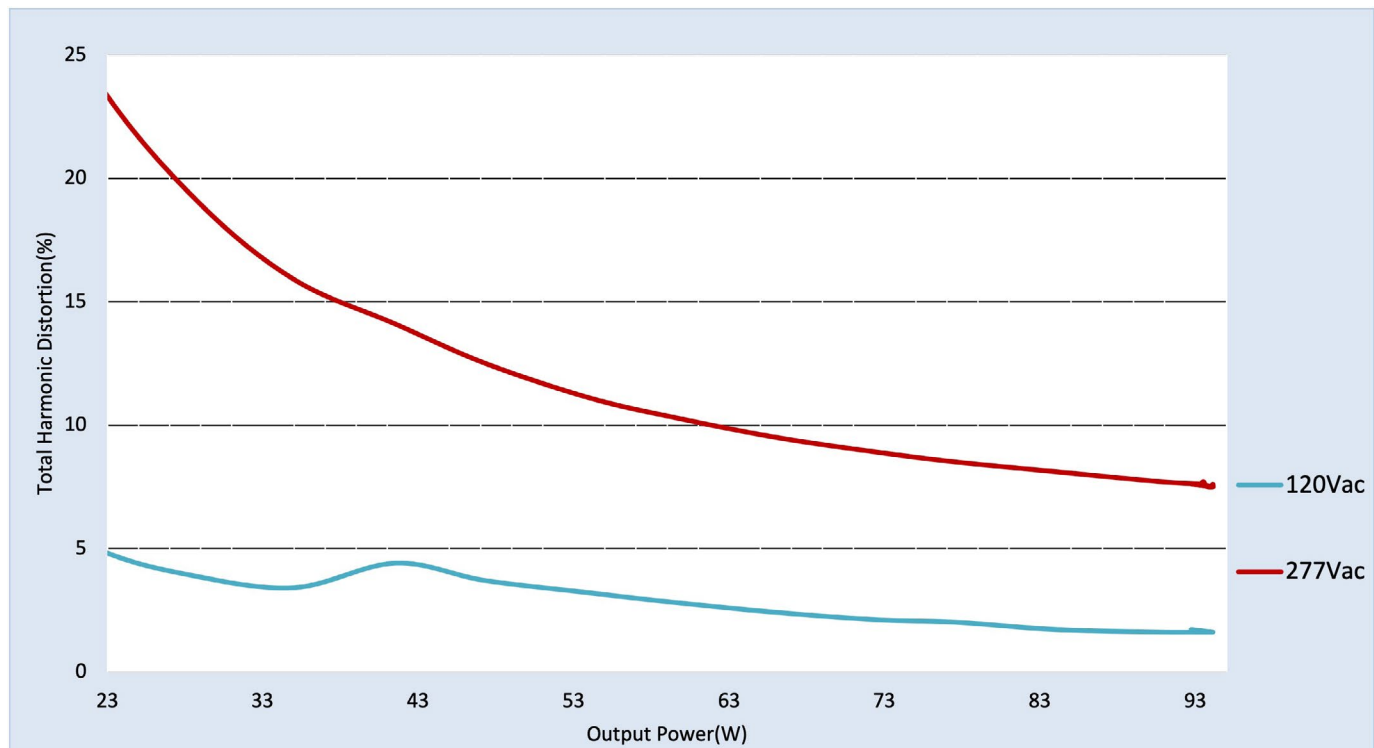
## Performance Characteristics

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.

### Power Factor Vs. Output Power



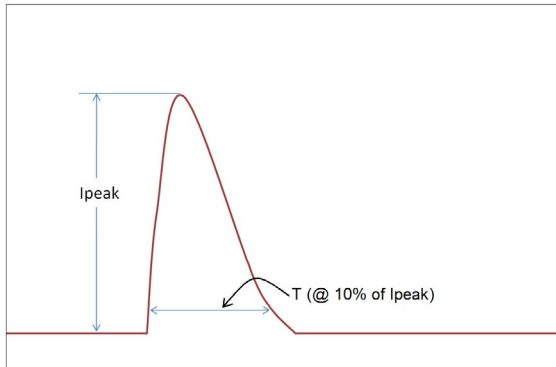
### Total Harmonic Distortion (THD) Vs. Output Power



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## Inrush Current Info



Vin	Ipeak	T (@ 10% of Ipeak)
120 Vrms	38.4A	179.5us
277 Vrms	99.6A	144.5us

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)
Combi Wave (w/t 2Ω)	6kV	6kV

## Isolation

Isolation	Input	Output	0-10V	Enclosure
Input	N/A	2xU+1kV	2.5kV	2xU+1kV
Output	2xU+1kV	N/A	2.5kV	2xU+1kV
0-10V	2.5kV	2.5kV	N/A	2.5kV
Enclosure	2xU+1kV	2xU+1kV	2.5kV	N/A

U = Max. input voltage



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Signify North America Corporation  
200 Franklin Square Drive,  
Somerset, NJ 08873  
Telephone 855-486-2216

Signify Canada Ltd.  
281 Hillmount Road,  
Markham, ON, Canada L6C 2S3  
Telephone 800-668-9008

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