



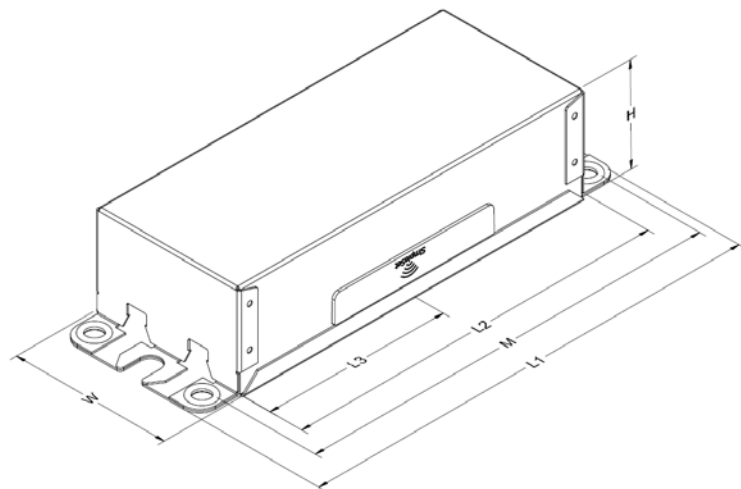
Advance Xtanium outdoor LED drivers with SimpleSet technology are designed to give OEMs ultimate flexibility. With the drivers' wide operating windows and simple programming, luminaire manufacturers can design luminaires of different sizes and lumen levels for outdoor applications.

Specifications

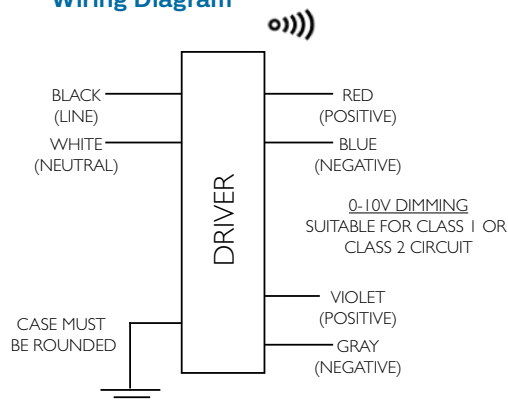
Input Voltage (Vac)	Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency@ Max Load and 70°C Case	Max Case Temp. (°C)	Input Current (A)	Max. Input Power (W)	THD @ Max Load (%)	Power Factor @ Max Load	Surge Protection (Combi-Wave, KV)	Envir. Protection Rating
120	100	30-91	0.1 - 1.5	89	85°C	0.96	114	<10%	>0.95	6	UL damp & dry and Type HL
277				91		0.45					

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)	2.72 (69.0)



Wiring Diagram



Dimming	Dimming Range (with specified dimmers)	Minimum Output Current (A)
0-10V Analog Class 1 and 2 Wiring	10% ~ 100%	0.04 (refer to "Driver Output Window" on page 4)



Xitanium XI100C150V091BSY1

100W 0.1–1.5A 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	XI100C150V091BSY1M (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	135Vdc
Output Current Ripple (ripple = peak to average / average)	15% max @ max Iout
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–1.5A via SimpleSet (Factory Default at 1.25A)
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 for 120–277V AC Mains input. An additional EMC filter is necessary for the product to comply with FCC Part15 class A limit at DC mains operation.
Audible Noise	<24dB Class A
Weight	1.44 Lbs / 0.65 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

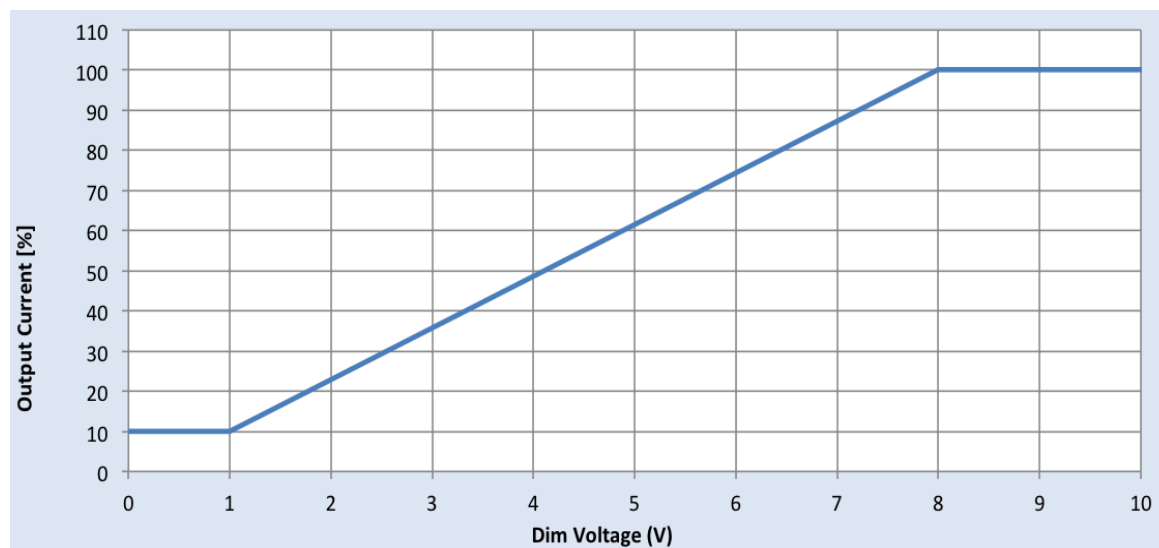
Dimming source current from the driver: 150µA (@ 0<Vdim<8V)

Minimum Dim Level: Factory default 10% of Iout (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



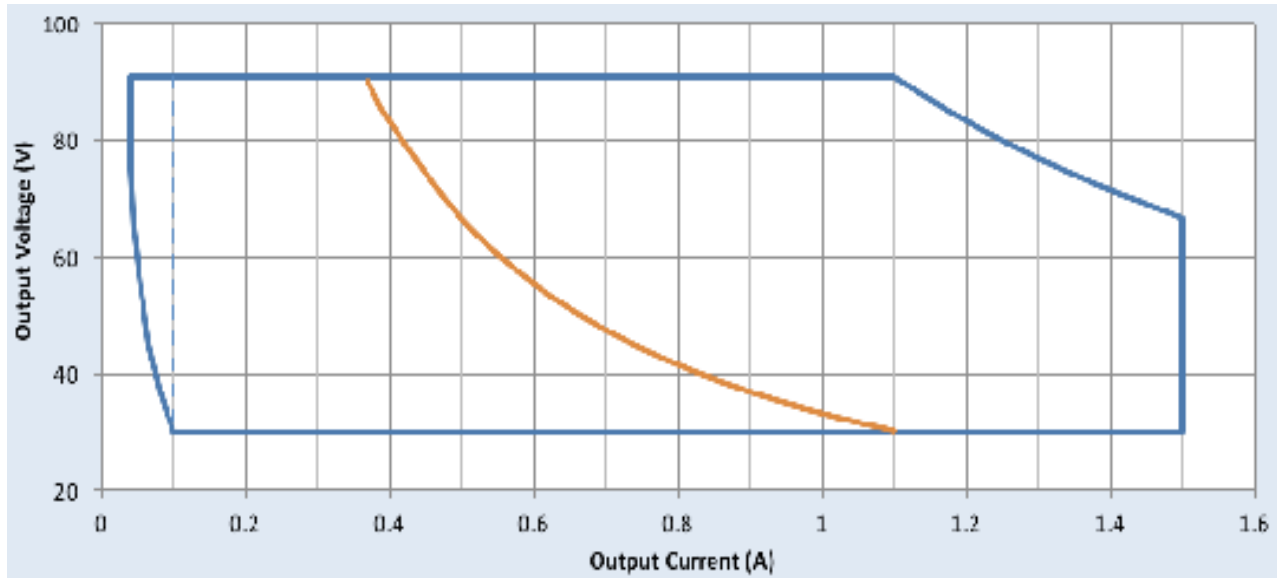
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Driver Output Window



Notes

1. Factory default output current is 1.25A.
2. To get a 100% to 10% dimming range, the output current setting through AOC should be > 0.4A.
3. Minimum output operation power is 3.0W.

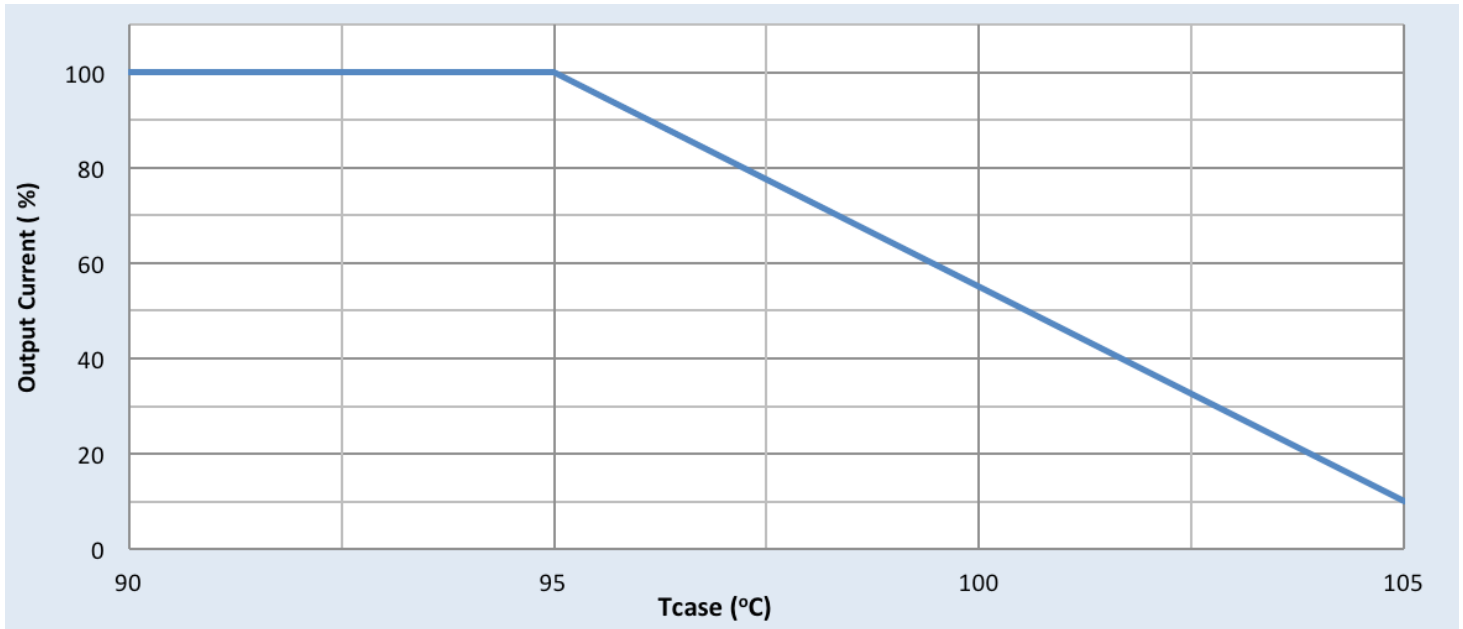
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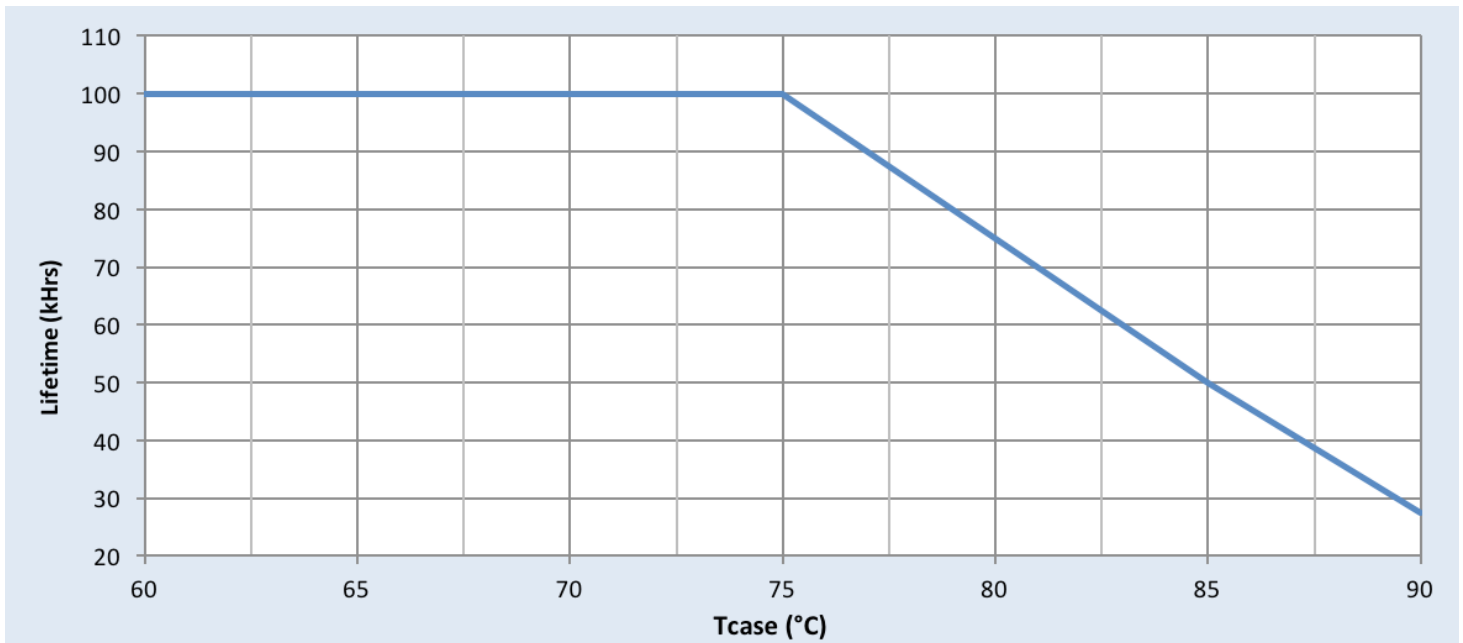
Output Current Vs. Driver Case Temperature



Note

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

Driver Lifetime vs. Driver Case Temperature



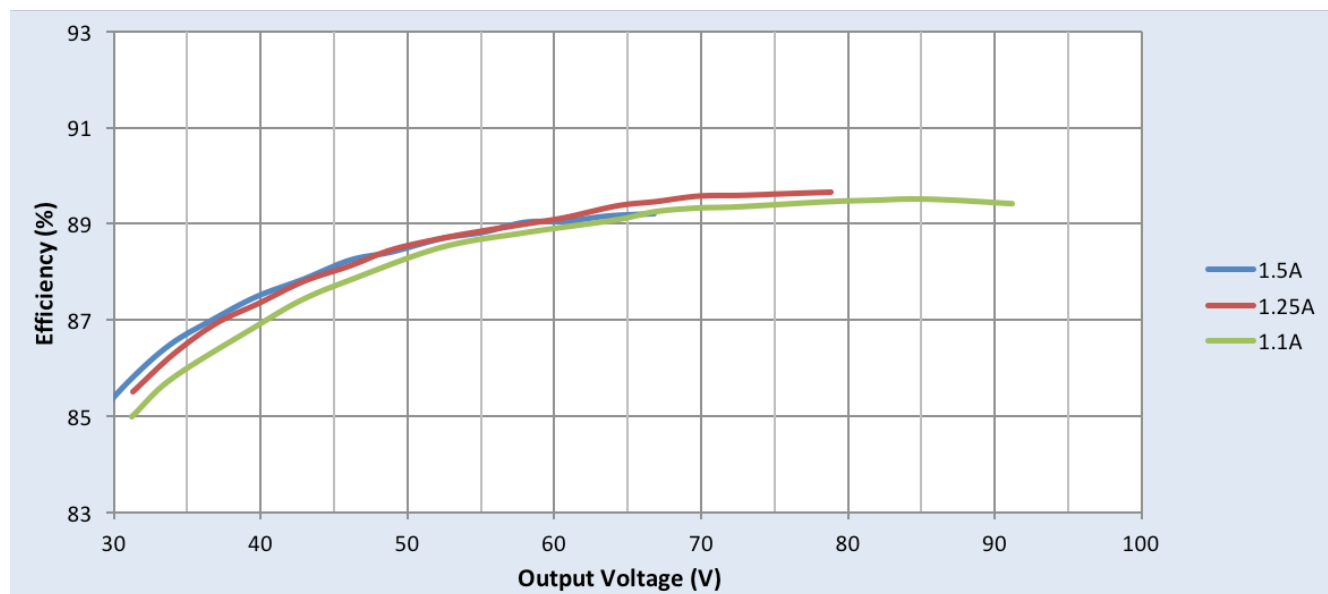
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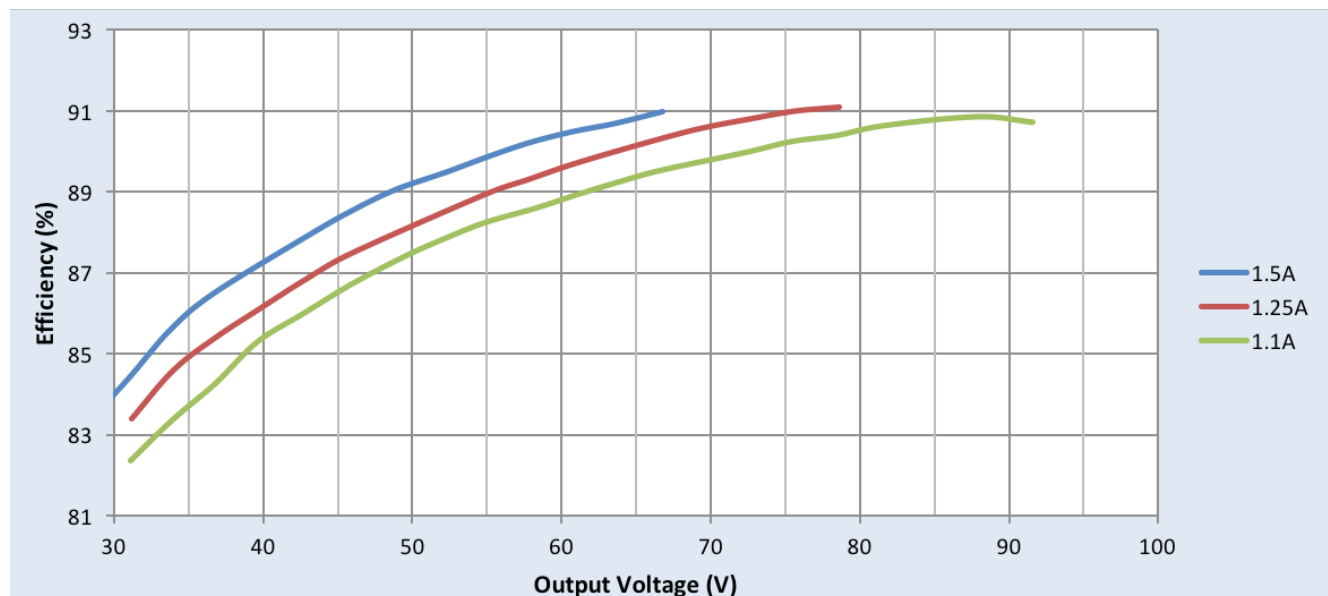
Performance Characteristics

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



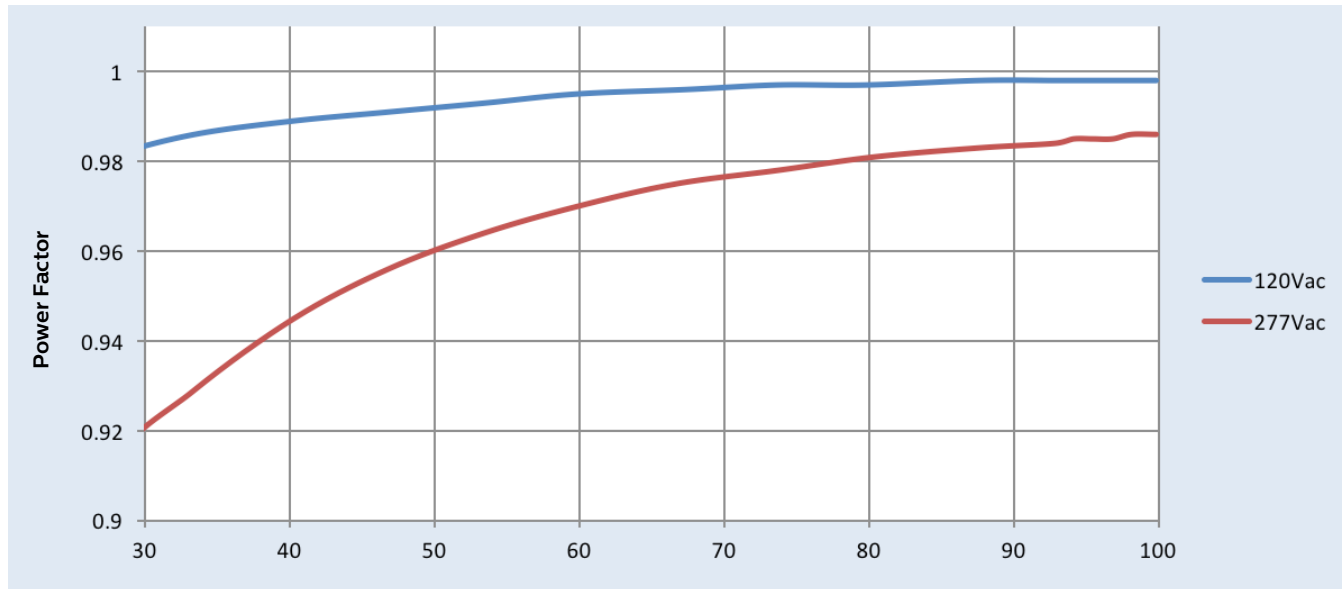
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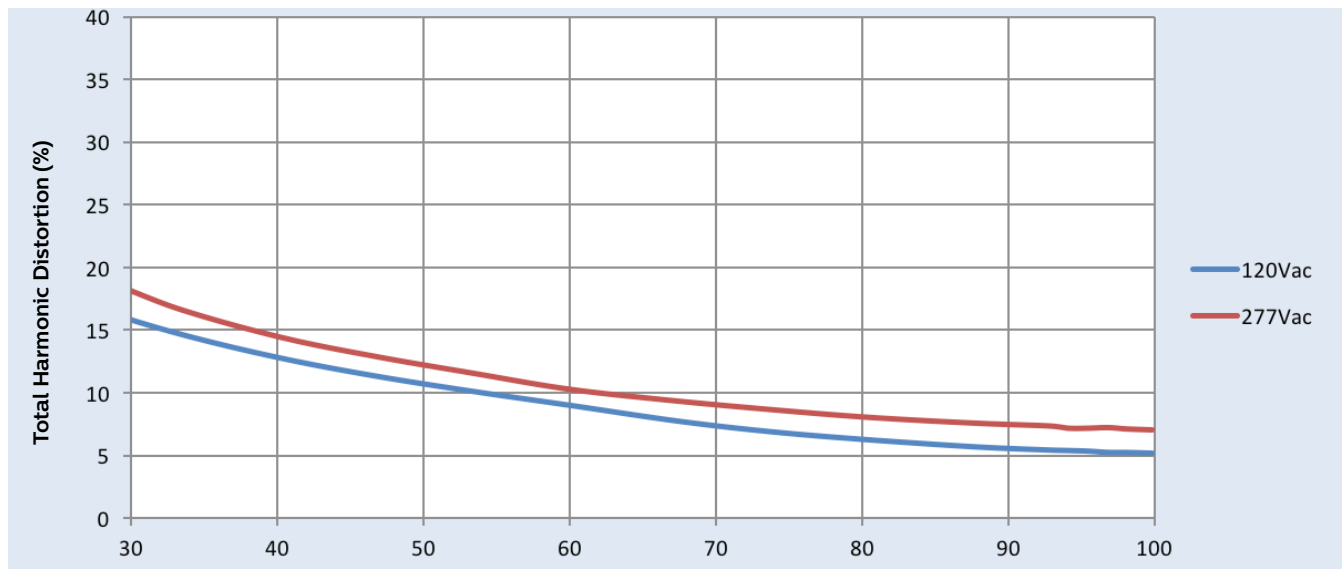
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Power Factor Vs. Output Power



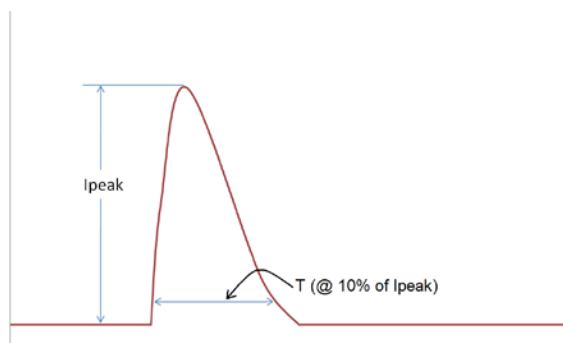
Total Harmonic Distortion (THD) Vs. Output Power



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Inrush Current Info



V _{in}	I _{peak}	T (@ 10% of I _{peak})
120 Vrms	29.6A	196μs
277 Vrms	74.2A	215μs

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

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

