ADVANCE
by signify

LED Driver

Xitanium edge

XI075C160V050CNS2

Advance Xitanium edge industrial LED drivers are designed to meet basic lighting needs in highbay applications. These dimmable drivers are offered with specific current settings and are optimized for use with Advance Fortimo edge modules making LED conversion affordable.

Intertek
Class P
Conforms to UL STD 8750
Certified to CAN/CSA STD C22.2 No. 250.13

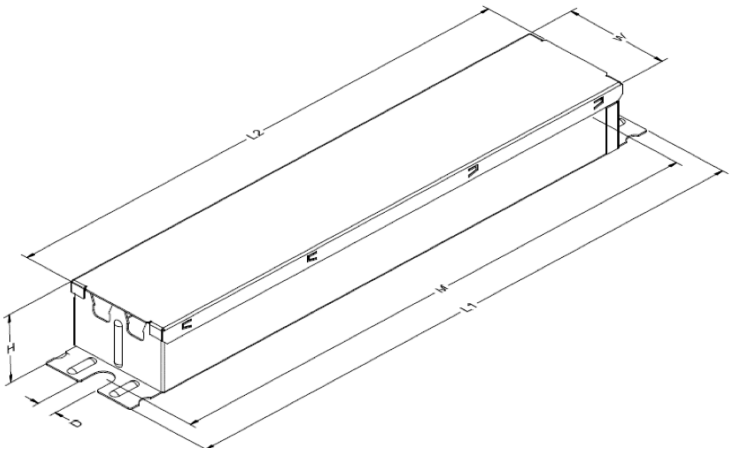
LISTED E321253
Class P
LED class 2 output
For Dry and Damp Location

Specifications

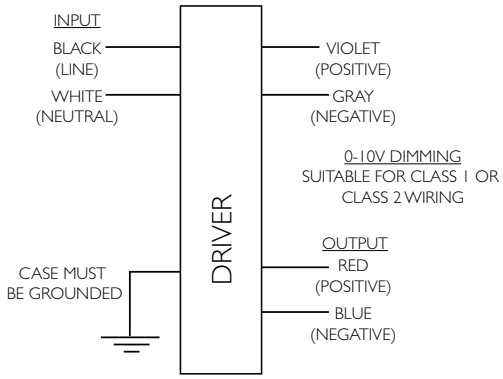
Input Volt. (Vac)	Output Power (W)	Output Volt. (V)*	Output Current (A)	Efficiency@ Max. Load and 75°C Case	Max. Case Temp. (°C)	Input Current (A)	Max. Input Power (W)	THD @ Max. Load (%)	Power Factor @ Max. Load	Surge Protection (Combi-Wave, KV)	Envir. Protection Rating	Dim	Dimming Range (with specified dimmers)	Min. Output Current (A)	Other Notes
120	75	30-50	1.6	88.5%	Life 85°C UL 90°C	0.72	87	<10%	>0.9	>6KV	UL damp & dry and Type HL	0-10V Analog Class 1 and 2 Wiring	10% ~ 100%	0.16	Dimming source current: 150 µA
277				89.5%		0.32		<15%							

Enclosure

	In. (mm)
Case Length (L2)	8.44 (214.3)
Case Width (W)	1.70 (43.1)
Case Height (H)	1.13 (28.8)
Mounting Length (M)	8.91 (226.3)
Mounting Hole Diameter (D)	0.31 (7.9)
Overall Length (L1)	9.45 (240.0)



Wiring Diagram



WARNING:

Install in accordance with national and local electrical codes.
Use 18 AWG solid copper wire.
Rated >= 90°C.
Strip wire 3/8".

GROUNDING:

Driver case must be grounded.

* These systems are ideal for stock and flow luminarie lines.

Xitanium edge XI075C160V050CNS2

75W 1.6A 50V 0-10V

Features

- No programming necessary, fixed current, 0-10V dimming
- High efficiency – target 88.5%
- UL Class 2 rated. Class P listing (UL, CSA, ETL)
- Tc 90°C max specification
- 6kV/3kA surge rating – ANSI C82.77-5

Benefits

- High reliability and performance specifications
- Class 2 output to simplify isolation requirements

Application

- Linear high-bay luminaires

Electrical Specifications

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

Product Data

Order Information	
Full Product Code	XI075C160V050CNS2 (12NC= 929001759213M) 20 pieces in a Midpack
Line Frequency	50/60Hz
Min. Mains Voltage Operational	108 Vac
Max. Mains Voltage Operational	305 Vac
Output Information	
Maximum Open Circuit Voltage	<60Vdc (Class 2 output)
Output Current Ripple (in CC mode) (ripple = peak to average / average)	15% max. @ max. Iout
Output Current Tolerance (at maximum output current)	<5%
Protections	Short Circuit and Open Circuit Protection for LED + and LED-, Overheat Protection
Features	
0-10V Dimming[3]	150µA (±3%) source current from driver. See dim curve for detail.
Environment & Approbation	
Operating Ambient Temp. Range	-40°C to +60°C
Max. Case Temperature (Tcase)	90°C
Agency Approbations	UL8750, CSA-C22.2 NO.250.13, CSA Class P, ETL Class P, UL Class P
Electromagnetic Compliance	FCC Title 47 Part 15 Class A
Audible Noise	<24dB Class A
Weight	1.32 Lbs / 0.6 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

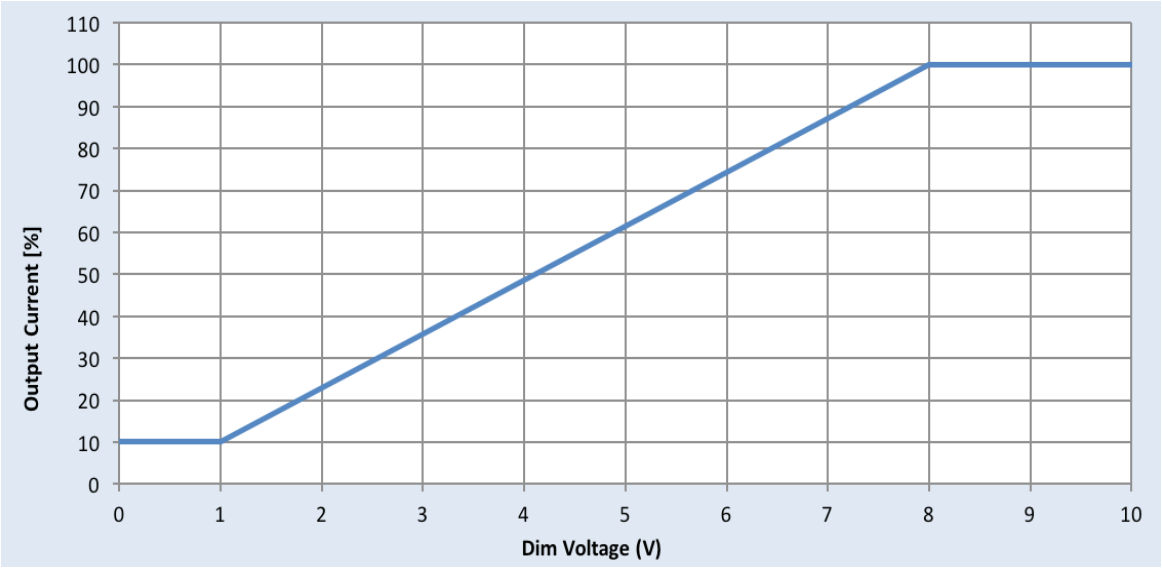
Dimming source current from the driver: 150µA (@ 0<Vdim<8V)

Minimum dim level: 10% (minimum 160mA)

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



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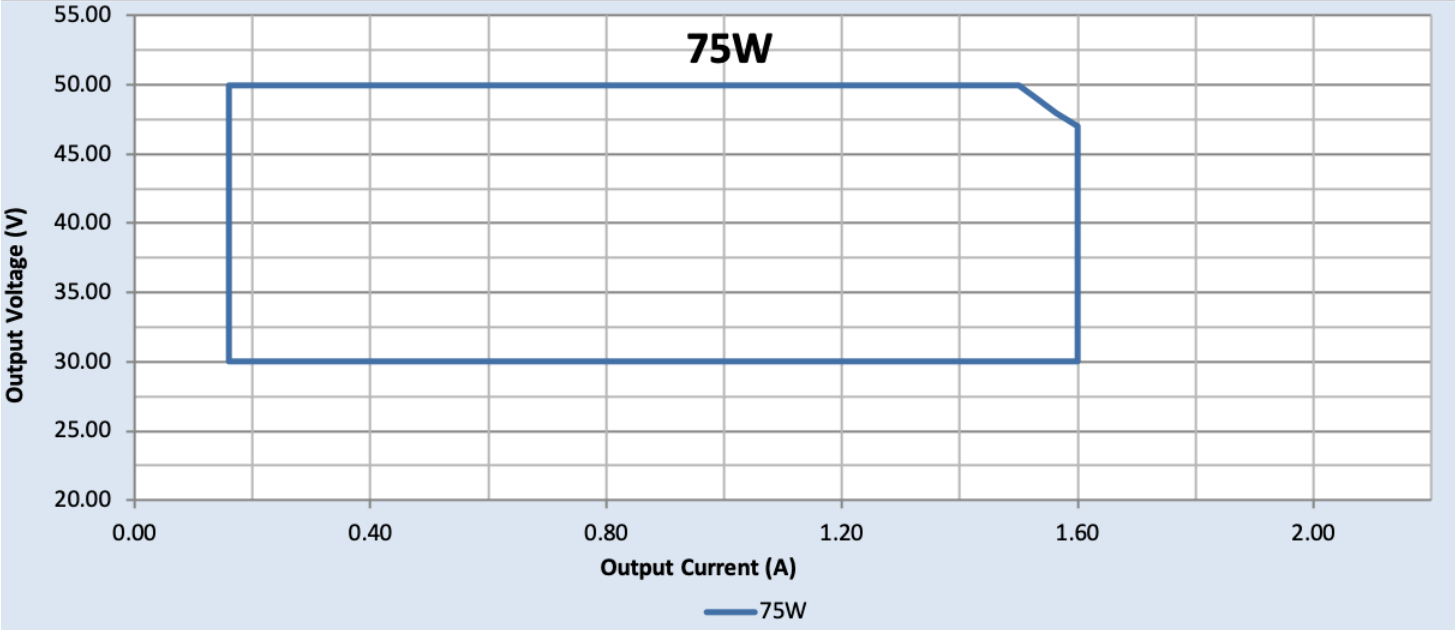
Operating Window



Electrical Specifications

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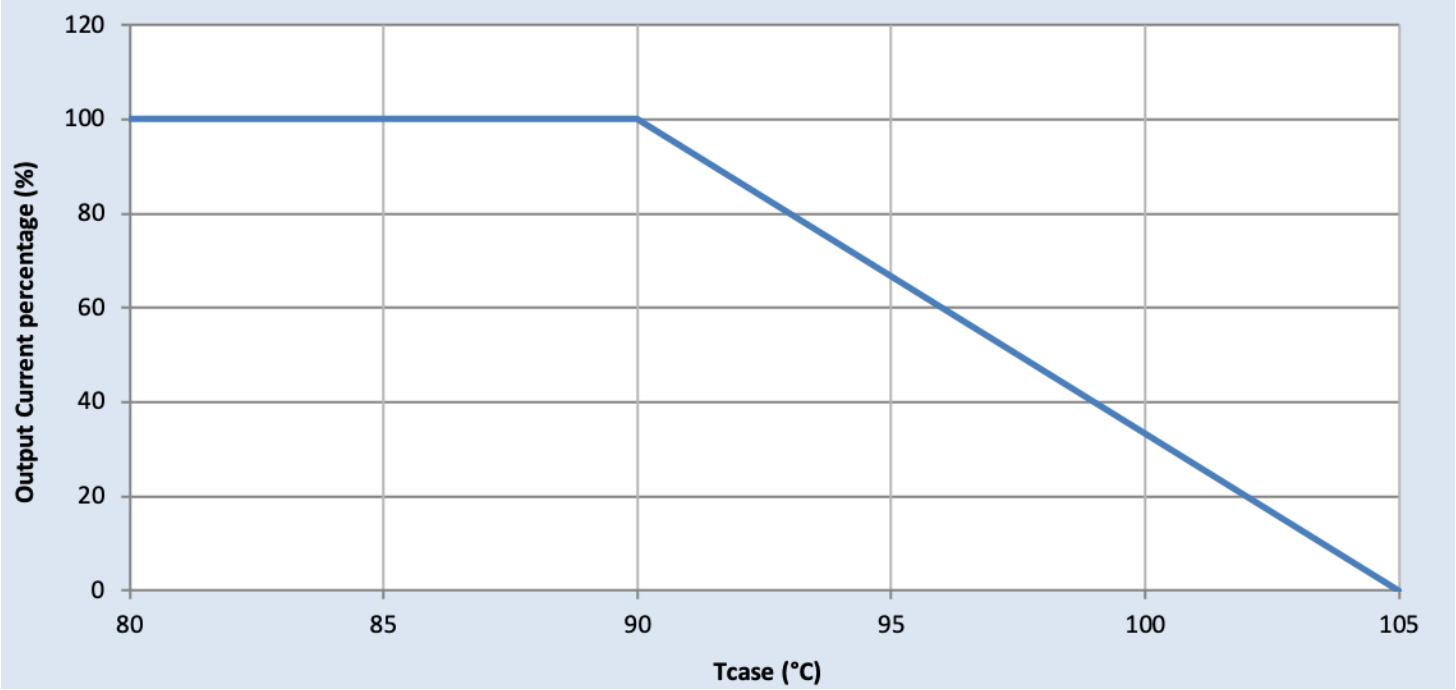
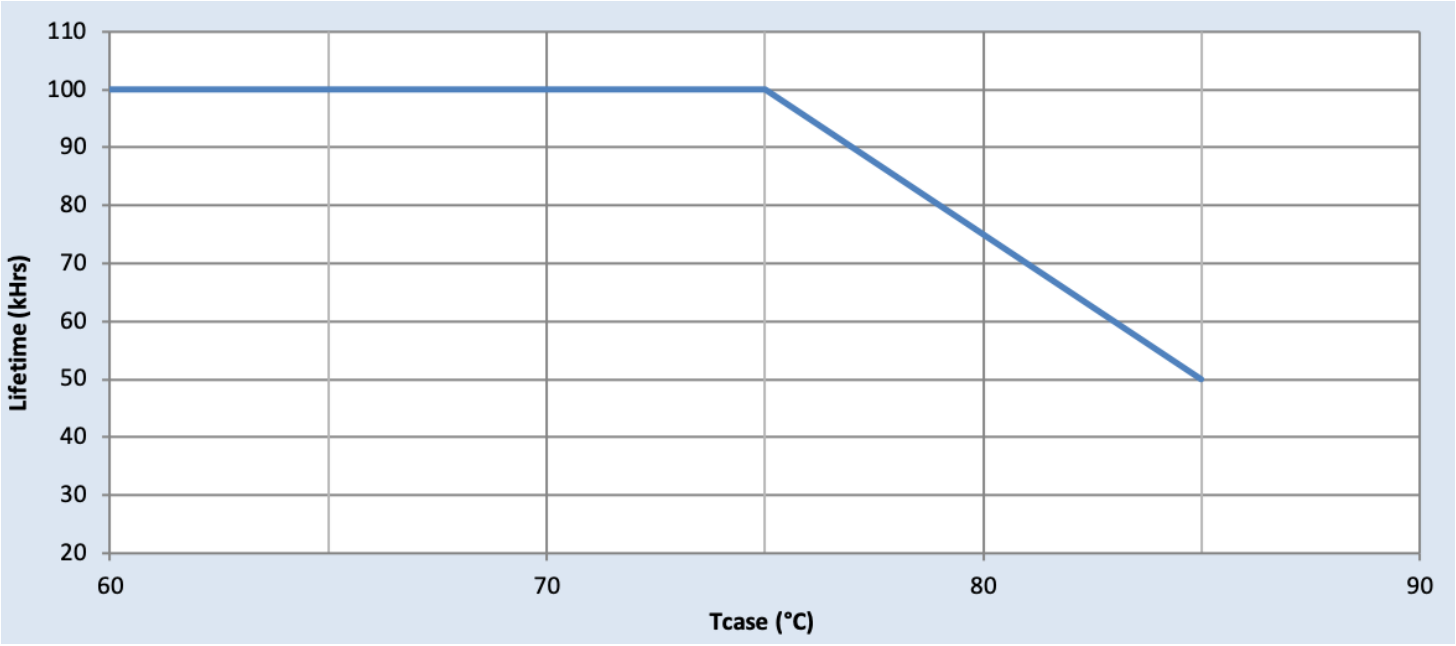
Output Current Vs. Driver Case Temperature



Note

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

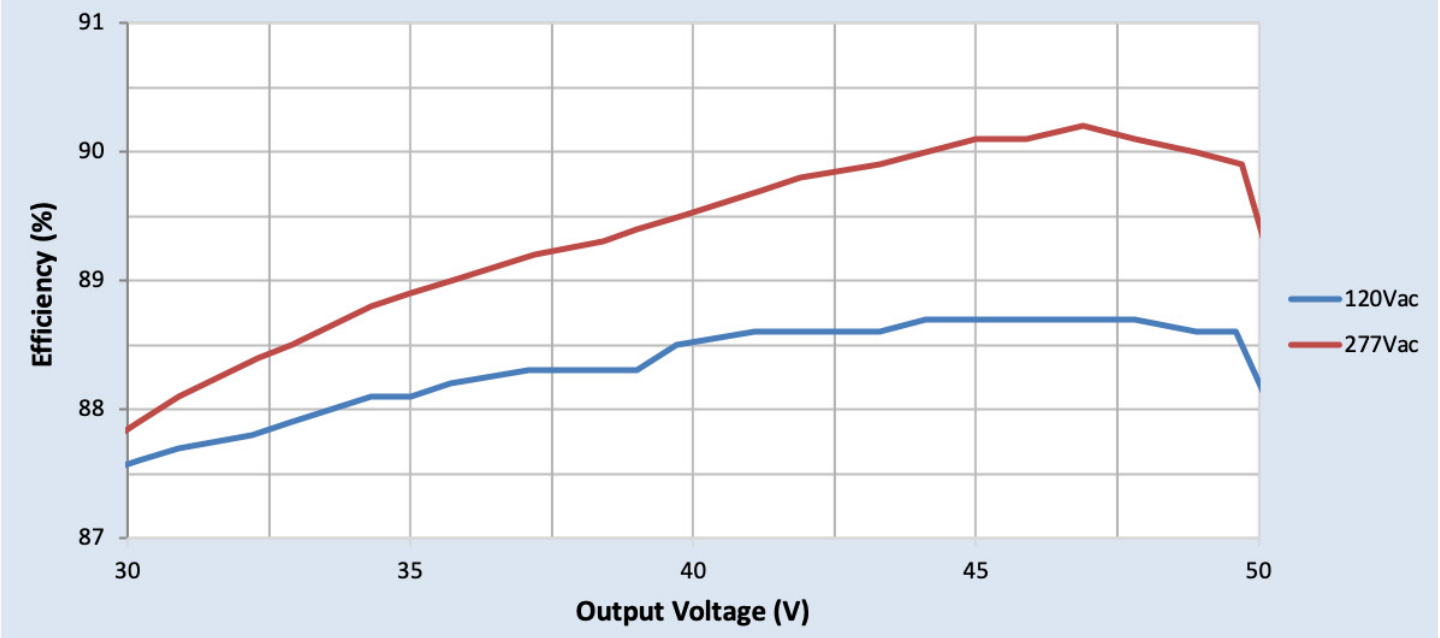
Driver Lifetime Vs. Driver Case Temperature



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



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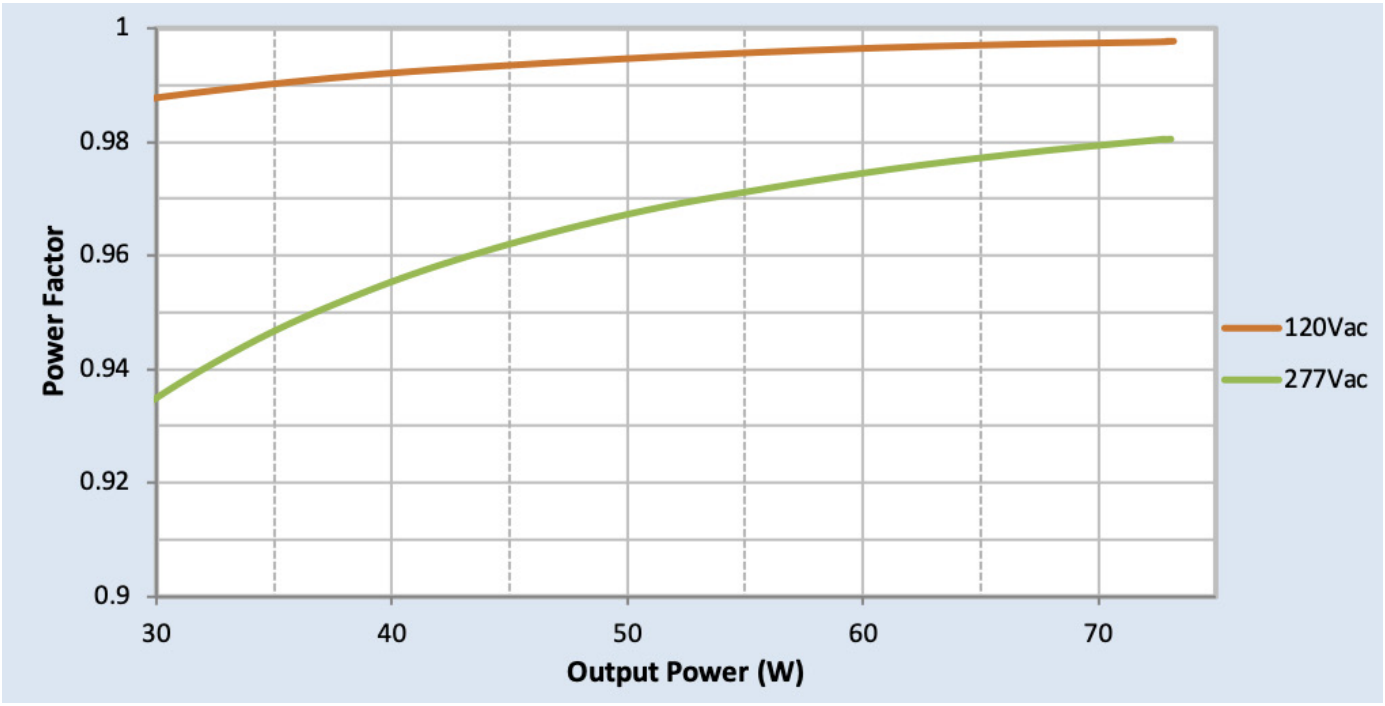
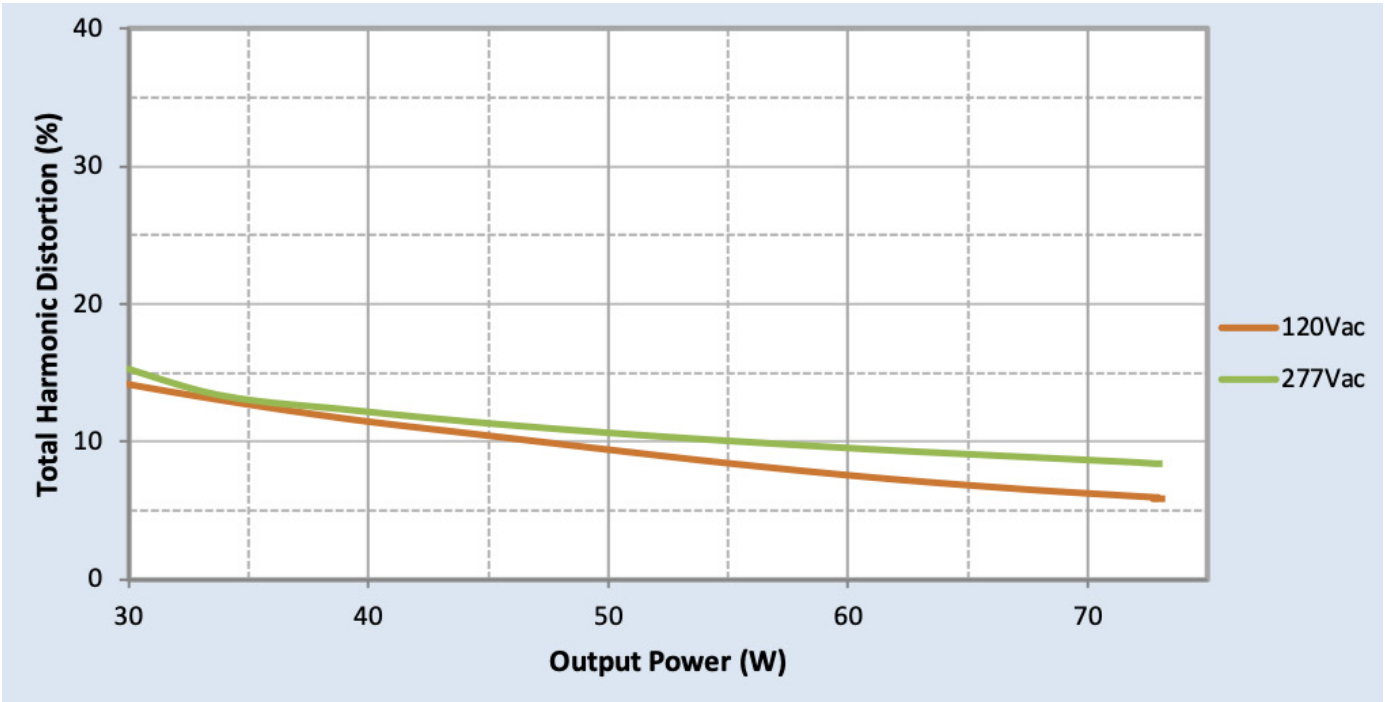
Power Factor Vs. Output Power



Total Harmonic Distortion (THD) Vs. Output Power



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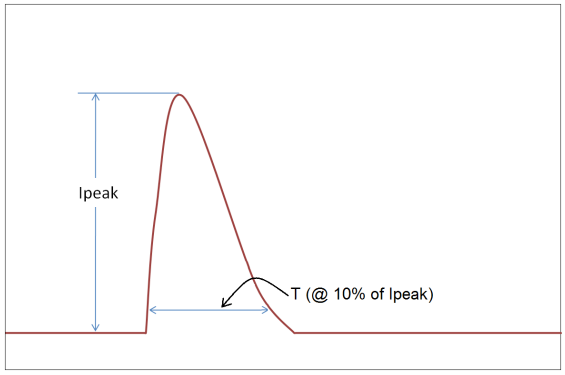
Inrush Current Info



Vin	Ipeak	T (@ 10% of Ipeak)
120 Vrms	34.5A	184µS
277 Vrms	83.2A	179µS

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 (Class 2)	2.5kV	2.5kV	NA	2.5kV
Enclosure	2xU+1kV	2xU+1kV	2.5kV	NA

U=Max. Working Voltage

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