

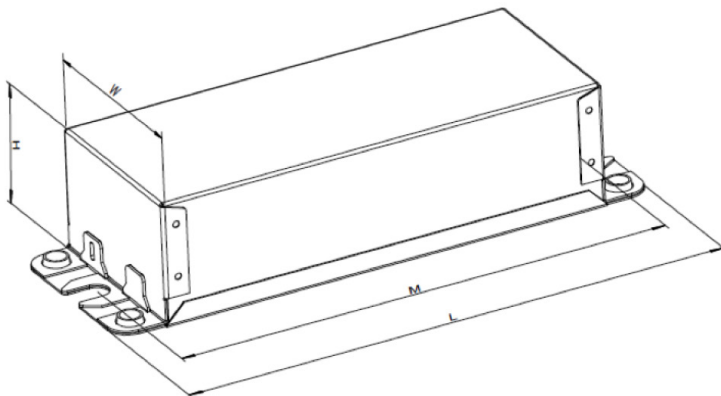
Long-lasting and low-maintenance, LED-based light sources are an excellent solution for all lighting applications. For optimal performance, these solutions require reliable drivers matching the long lifetime of the LEDs. **The Advance Xitanium LED outdoor driver portfolio** offers a range of products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

Specifications

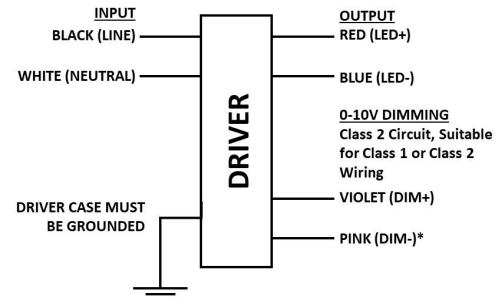
Input Voltage (Vrms)	Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency@ Max. Load and 70°C Case	Max. Case Temp. (°C)	Input Current (Arms)	Max. Input Power (W)	THD @ Max. Load	Power Factor @ Max. Load	Surge Protection (Combi Wave, KV)	Envir. Protection Rating	Driver Type
120	65	42-125	0.53	90.5	80 (Life) 85 (UL)	0.70	74	<10%	>0.95	4	UL Damp & Dry, Type HL	Constant Current
277				92.5		0.30						

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)
Mounting Width	1.69 (42.88)
Overall Length	6.61 (168.00)



Wiring Diagram



Dimming	Dimming Range	Minimum Output Current (A)
0-10V Analog Class 1 and 2 Wiring	10% - 100%	0.053

Warning

- Install in accordance with national and local electrical codes.
- The field-wiring leads or push-in terminals shall be fully enclosed.

Xitanium XI065C053V125CNY1

65W 0.53A 120–277V 0–10V

Electrical Specifications

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

Features

- 50,000+ hour lifetime¹
- Excellent thermal performance
- 0–10V dimming suitable for UL Class 1 and Class 2 wiring

Benefits

- Enables long-life luminaire designs
- Allows luminaire designs for a wide range of ambient environments

Application

- Area
- Roadway
- Parking garages
- Floodlights

Product Data

Order Information

Full Product Code	XI065C053V125CNY1M (Mid Pack, 12pcs/box)
Line Frequency	50/60Hz
Min. Mains Voltage Operational	108Vac
Max. Mains Voltage Operational	305Vac

Output Information

Maximum Open Circuit Voltage	190Vdc
Output Current (ripple = peak to average / average)	15% max @ max Iout
Output Current Tolerance	<5%
Protections	Short Circuit and Open Circuit Protection for LED + and LED – and Temperature Foldback

Features

0–10V Dimming	150µA source current from driver
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Environment & Approbation

Operating Ambient Temp. Range	–40°C to +55°C
Max. Case Temperature (Tcase)	80°C
Agency Approbations	UL 8750
Electromagnetic Compliance	FCC Title 47 Part 15 Class A
Audible Noise	<24dB Class A
Weight	1.53lbs./0.57kgs.

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 (±3%) (@ 0<Vdim<8V)

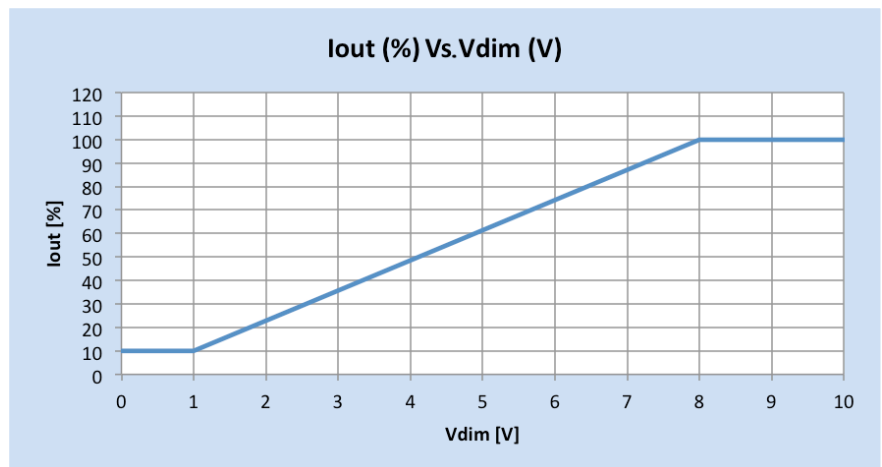
Minimum Dim Level (nominal): 53 mA

Maximum output voltage on the dimming wires: 12V

The dimming lead leakage current is 0.01mA. The maximum number of drivers that can be connected in parallel to one dimming control circuit is based on this dimming lead leakage current and the calculation is described in the corresponding Design-in Guide.

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



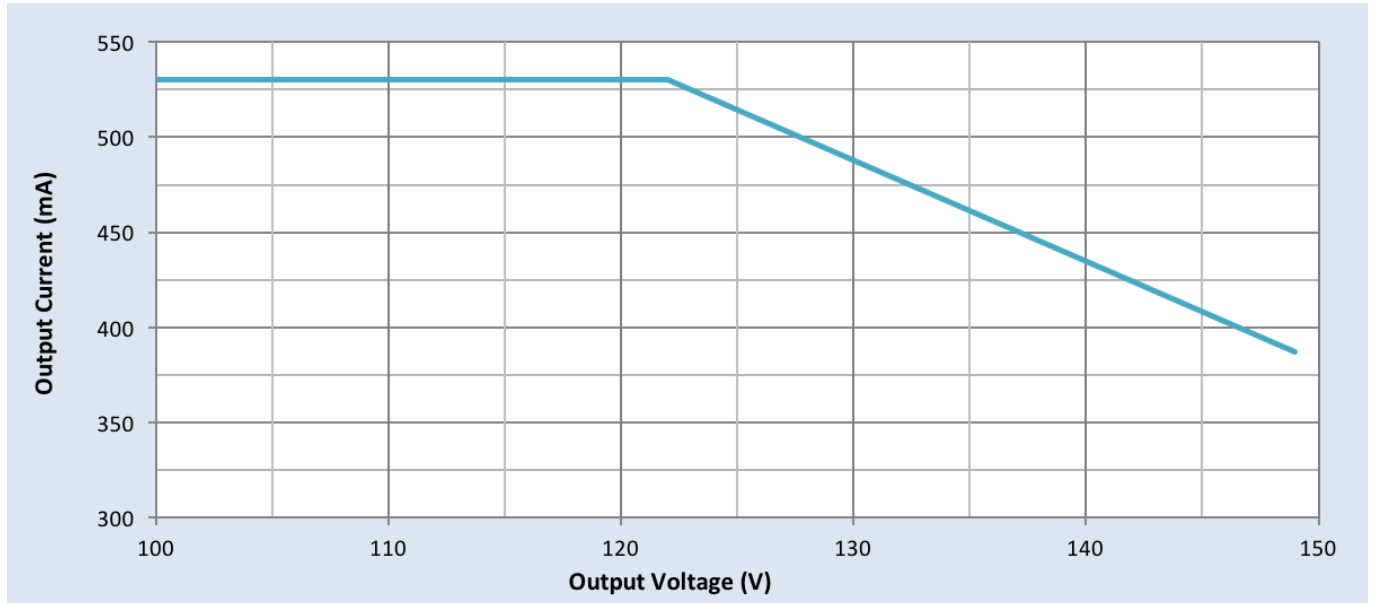
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Driver Operation Window



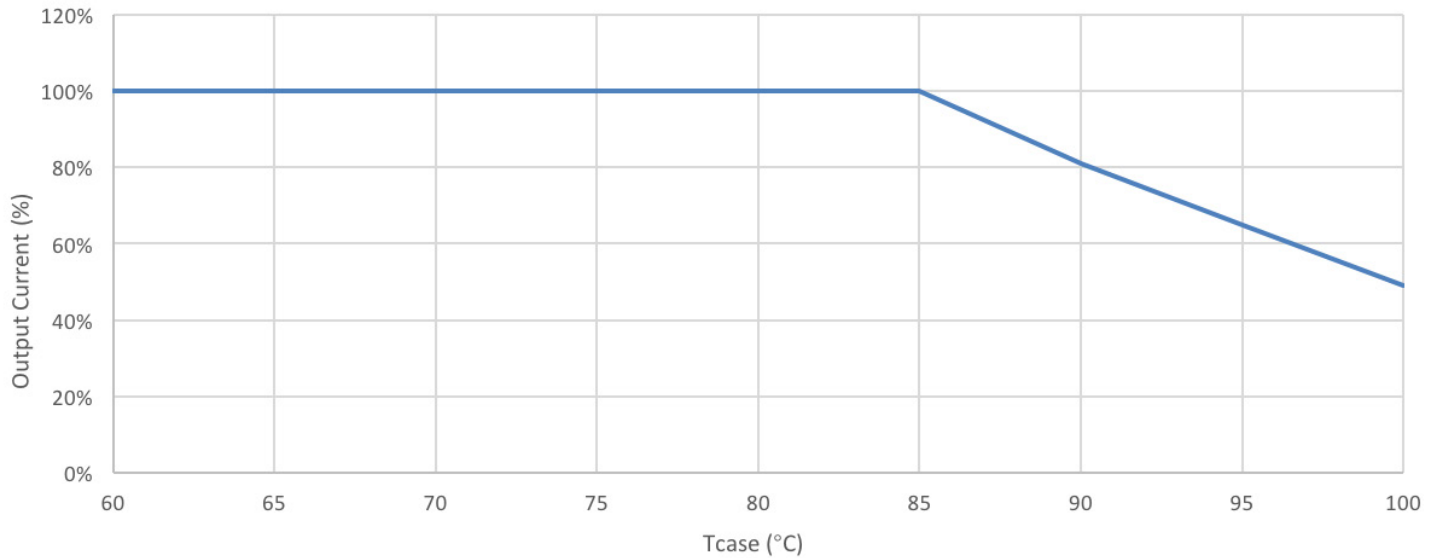
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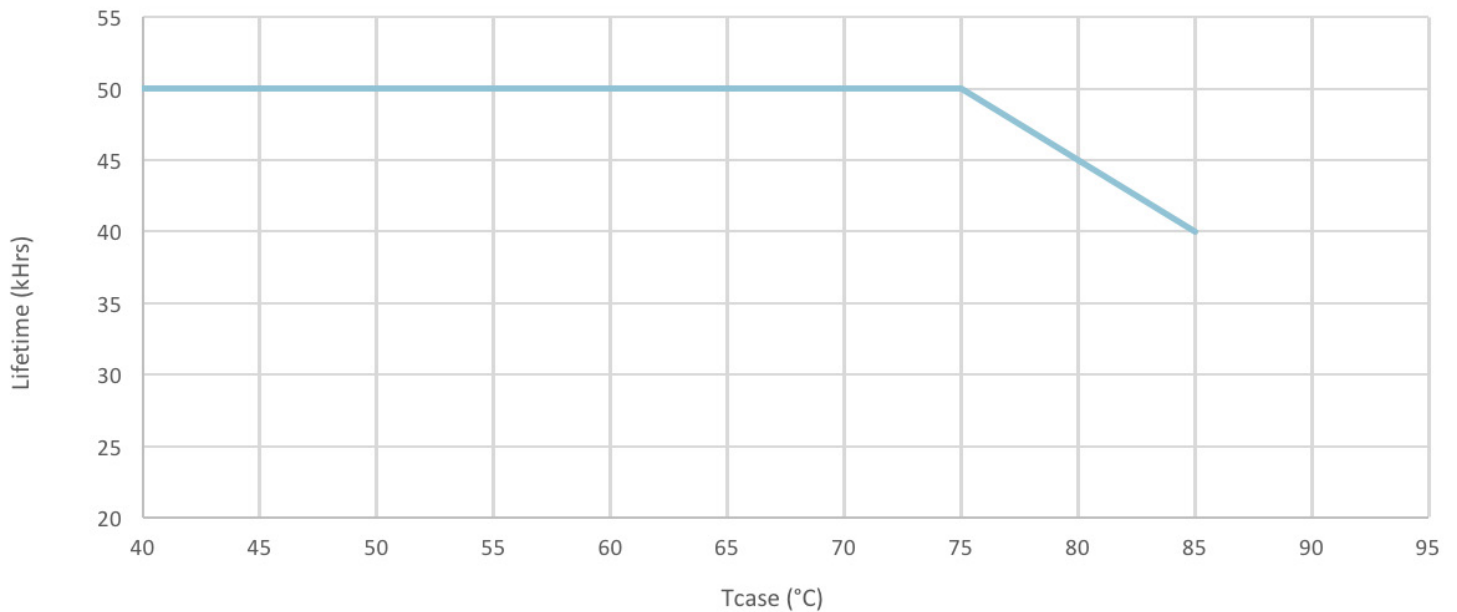
Electrical Specifications

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Output Current Vs. Driver Case Temperature



Driver Lifetime Vs. Driver Case Temperature



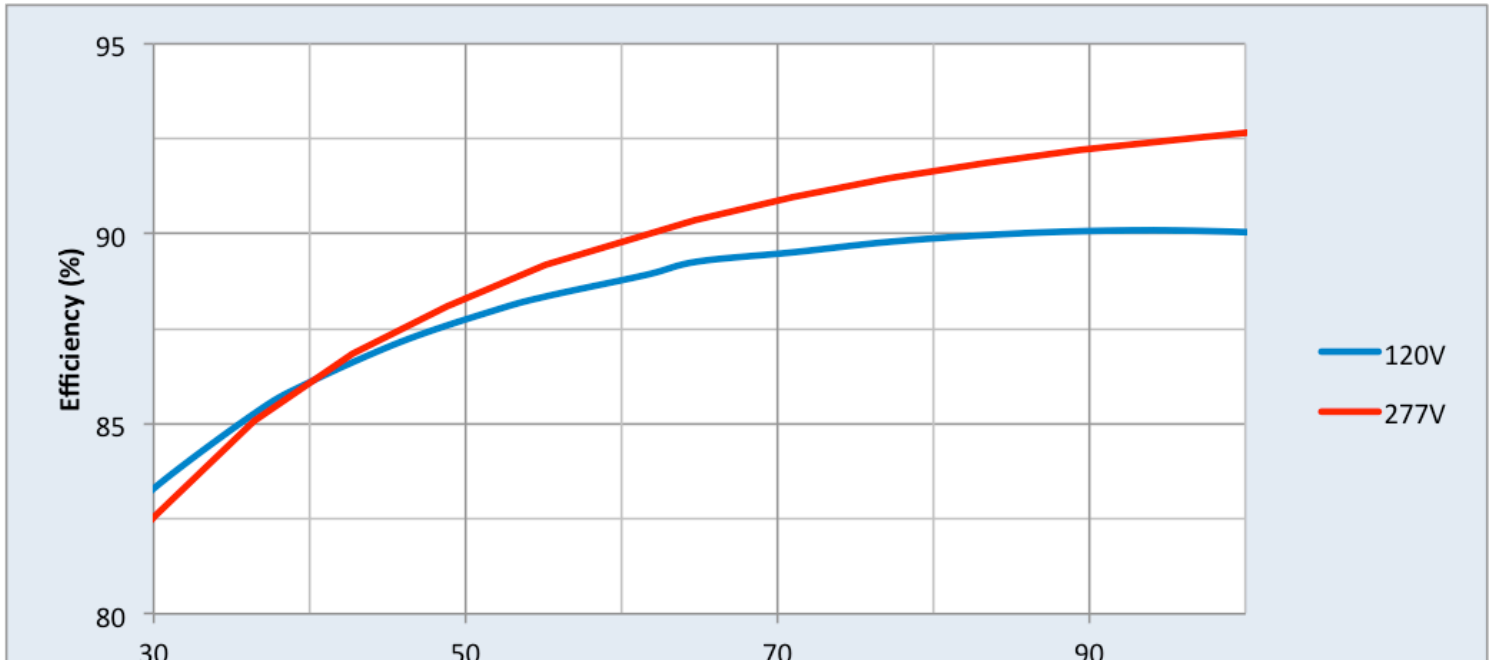
Xitanium XI065C053V125CNY1

65W 0.53A 120-277V 0-10V

Performance Characteristics

Based on measurements on a typical sample at 70°C Case. 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



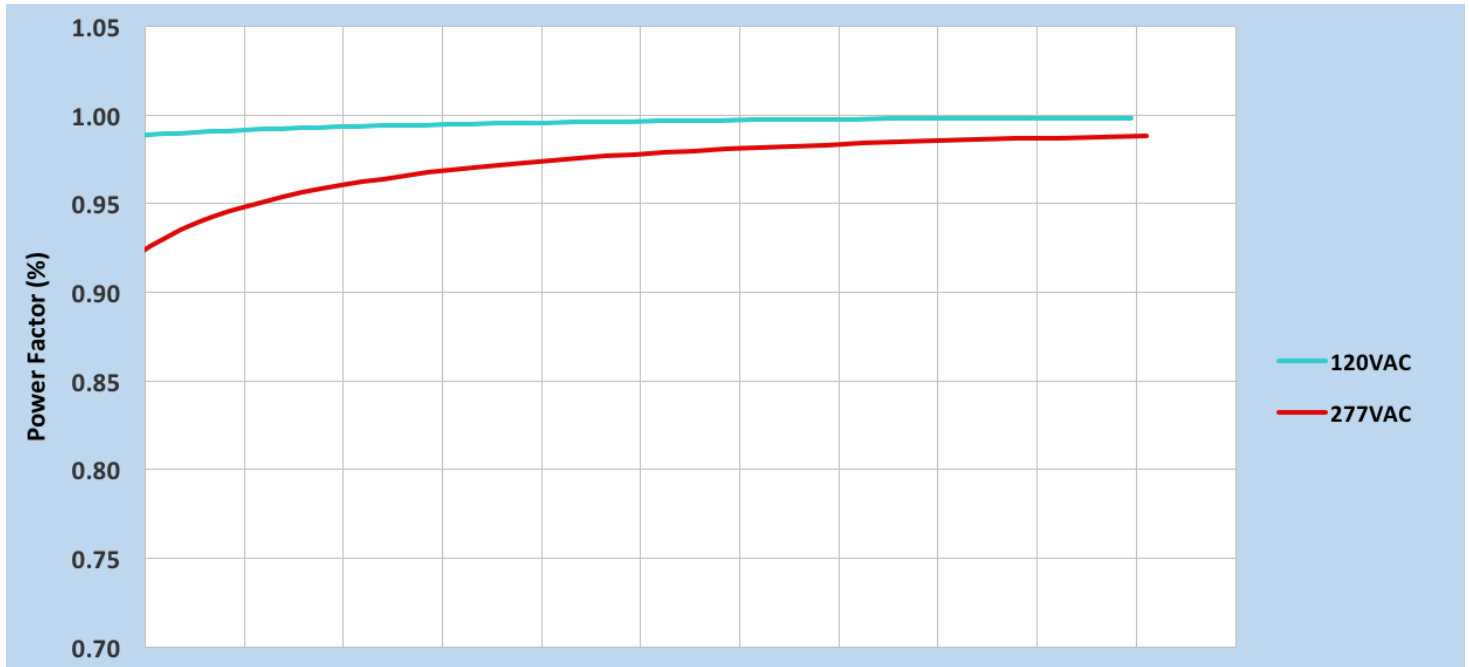
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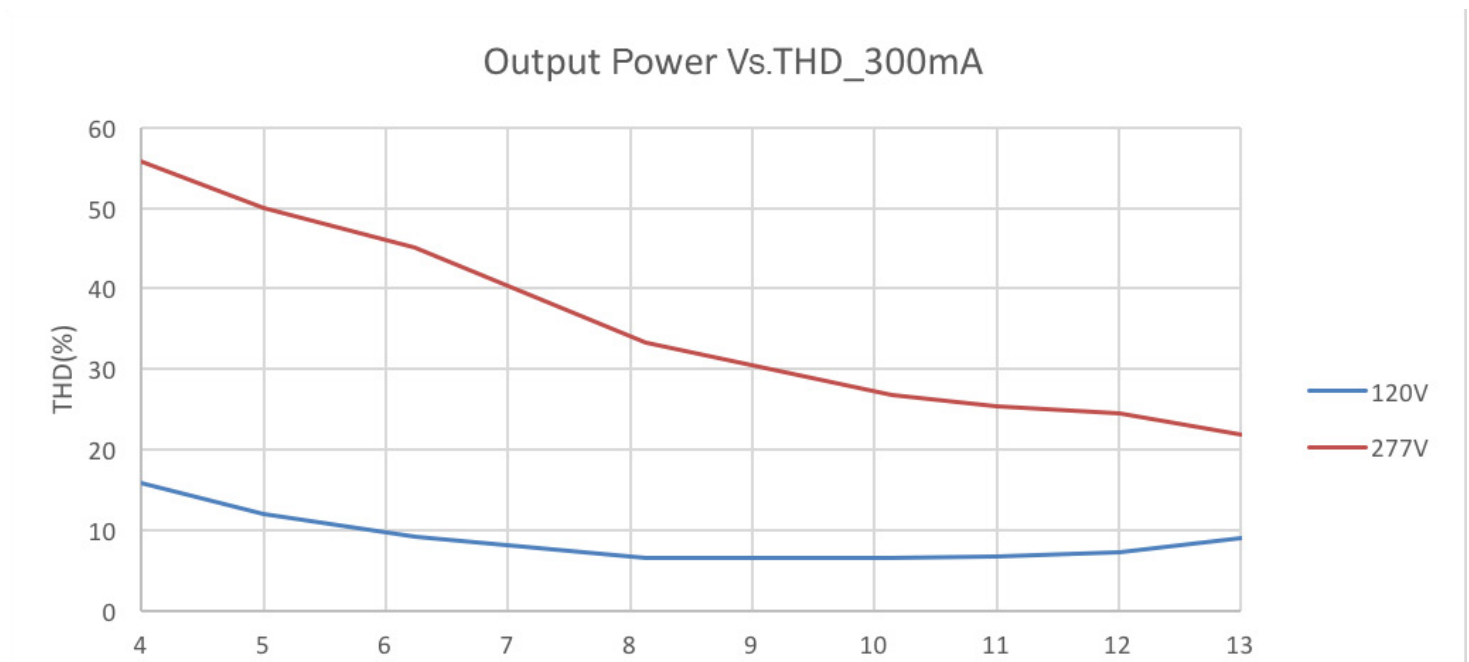
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Power Factor Vs. Output Power



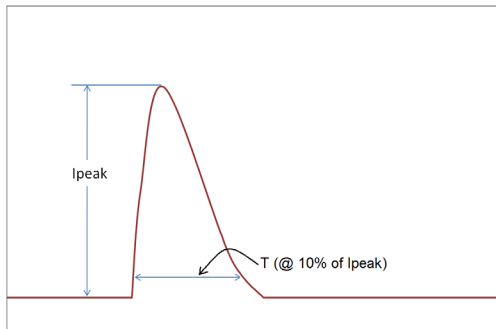
Total Harmonic Distortion (THD) Vs. Output Power



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Inrush Current Info



V_{in}	I_{peak}	T (@ 10% of I_{peak})
120 Vrms	36A	223 μ s
277 Vrms	92A	188 μ 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 μ s Combination Wave (w/t 2 ₂)	4kV	4kV

Isolation

Isolation	Input	Output	0-10V (Class 1 & 2)	Enclosure
Input	NA	2xU+1kV	2.5KVac	2xU+1kV
Output	2xU+1kV	NA	2.5KVac	2xU+1kV
0-10V (Class 1 & 2)	2.5KVac	2.5KVac	NA	2xU+1kV

U = Max. input voltage

UL Conditions of Acceptability

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

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