



Advance CertaDrive indoor LED drivers are designed to meet basic lighting needs. These dimmable drivers are offered with specific voltage-current settings and are, thus, optimized with specifications that are appropriately suited for the application, making LED conversion affordable.

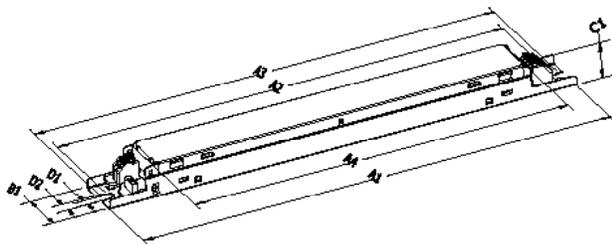
### Specifications

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 (Ring Wave, KV)	Envir. Protection Rating	Dimming	Dimming Range	Driver Type
120	36	28-48	0.725/0.75A	86	Tc-life: 70°C Tc-UL: 80°C	0.35	41.9	<20%	>0.9	2.5	UL damp & dry	0-10V	10% ~ 100%	Constant Current
277		Class 2 Output		88		0.15						Analog		

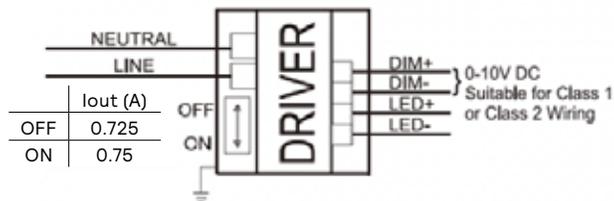
### Enclosure

	In. (mm)	Tolerance (mm)
Overall length (A1)	11.02 (280.0)	+/-0.5
Mounting Hole Distance (A2)	10.52 (267.3)	+/-0.5
Mounting Hole Distance (A3)	10.85 (275.6)	+/-0.5
Cover Length (A4)	8.81 (223.8)	+/-0.5
Case Width (B1)	1.18 (30.0)	+/-0.5
Case Height (C1)	0.83 (21.0)	+/-1.0
Mounting Hole Diameter (D1)	0.20 (5.08)	+/-0.3
Mounting Hole Diameter (D2)	0.30 (7.7)	+/-0.3

### Mechanical Diagram



### Wiring Diagram



Switch position default = OFF

\*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  $\geq 90$  °C.  
Strip Wire 3/8".  
For Class 2 Wiring, Use 20 AWG-16 AWG.

The field-wiring leads or push-in terminals shall be fully enclosed.

USE ONLY WITHIN AN ENCLOSURE.

DOIT ÊTRE INSTALLÉ DANS UNE ENCEINTE

#### GROUNDING:

Driver case must be grounded.



# CertaDrive CI036C075V048CDX1

36W 0.725/0.75A 48V 0-10V 120-277V

## Features

- 50,000+ hour lifetime<sup>1</sup>
- Excellent thermal performance
- High power factor & low THD<sup>2</sup>

## Benefits

- Enables long life luminaire designs
- Allows operability in indoor (low-bay) ambient conditions
- Suitable for commercial indoor applications

## Application

- Indoor linear troffers, pendants
- Office areas
- Retail centers
- Educational facilities

## Electrical Specifications

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

## Product Data

### Order Information

Full Product Code	CI036C075V048CDX1 (Mid-Pack, 18pcs/Box) 12NC:929002722613
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 (ripple = peak to average / average)	30% max @ max lout
Output Current Tolerance (at maximum output current)	<8% <sup>2</sup>
Protected	Short Circuit protection
Over Voltage Protection	52V+/-4V Hiccup mode protection

### Features

0-10V Dimming	See dim curve for detail.
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### Environment & Approbation

Operating Ambient Temp. Range	-20°C to +40°C
Max Case Temperature (Tcase) <sup>3</sup>	80°C, Tcase Life: 70°C
Agency Approbations	UL8750, UL1310, cUL, Class P(UL, cUL)
Electromagnetic Compliance	FCC Title 47 Part 15 Class A for 120Vac - 277Vac
Audible Noise	<24dB Class A
Weight	0.430Lbs / 0.195kgs

1. Advance CertaDrive 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.
2. Note: power factor (PF) and total harmonic distortion (THD) may deviate under adverse mains voltage conditions outside nominal operation. Output current (I<sub>out</sub>) variation includes effects of line and load regulation, temperature variation and component tolerances.

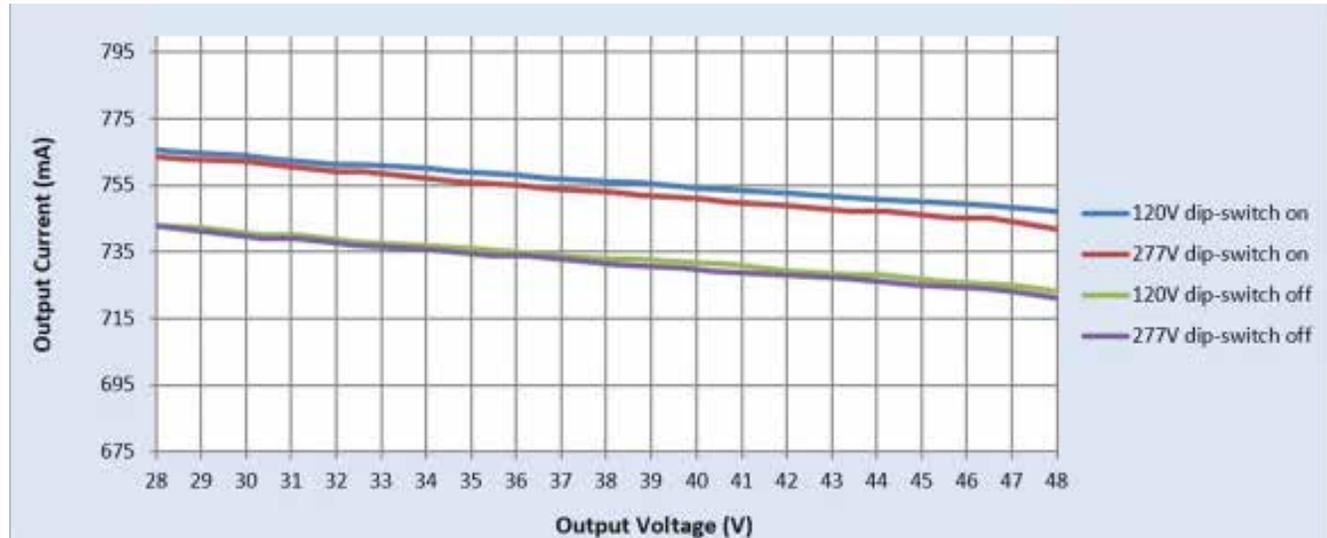
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### I<sub>out</sub> Vs. V<sub>out</sub>



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## Electrical Specifications

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## 0-10V Dimming Curve

Dimming source current from the driver: 100µA-250µA (@ 1<Vdim<8V)

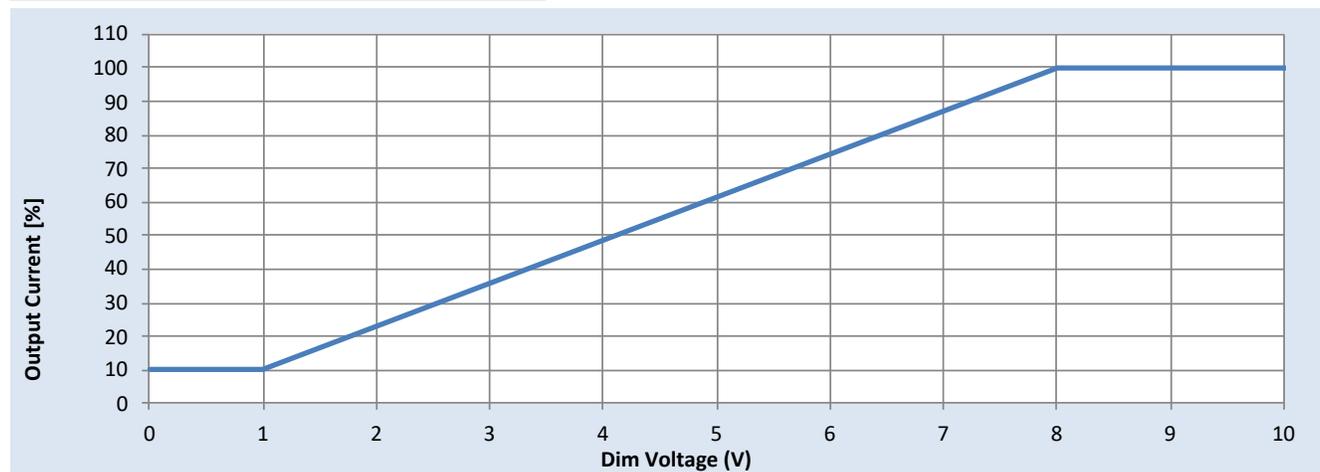
Minimum dim level: 10% of Iout

Maximum output voltage on the dimming wires: 12V

Leaking current of dimming leads: 0.01mA, recommended max number of control circuits in parallel, refer to Design in Guide.

## Approved Dimmer List

Manufacturer	Manufacturer Part Number
Lutron	Visit <a href="http://www.lutron.com">www.lutron.com</a>
Leviton	IllumaTech IP7 series
Advance	Sunrise - SR1200ZTUNV



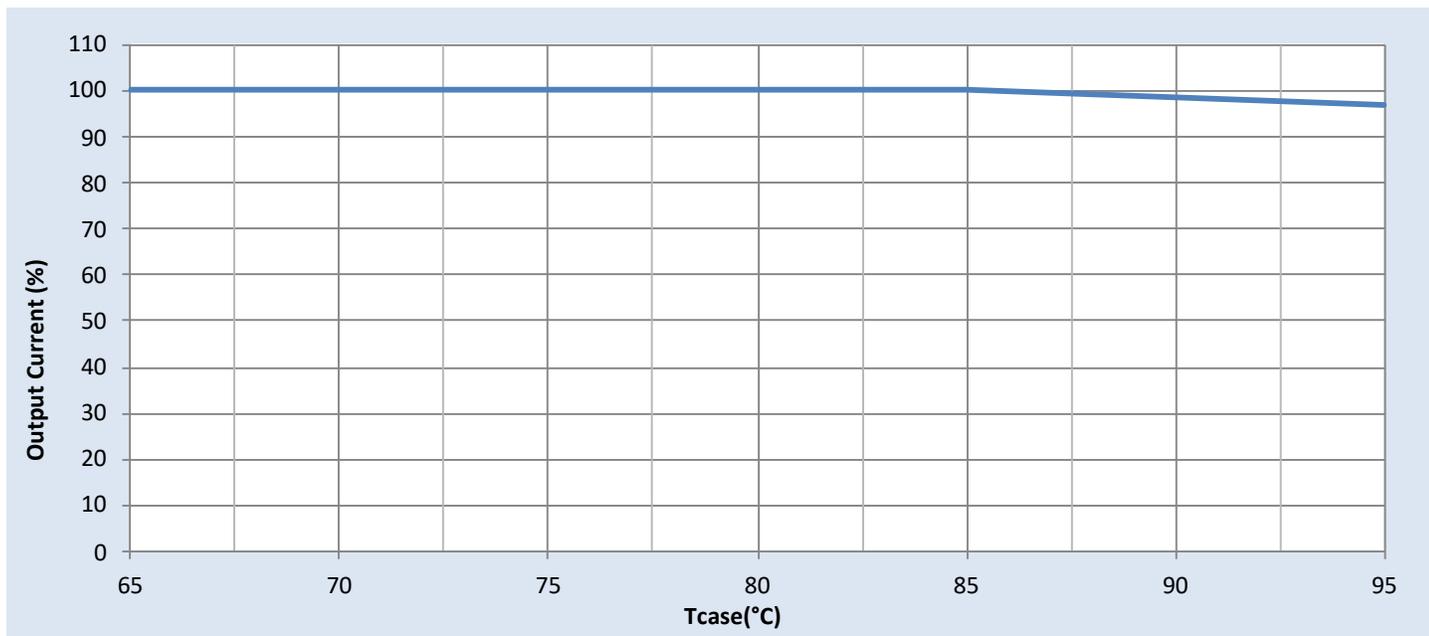
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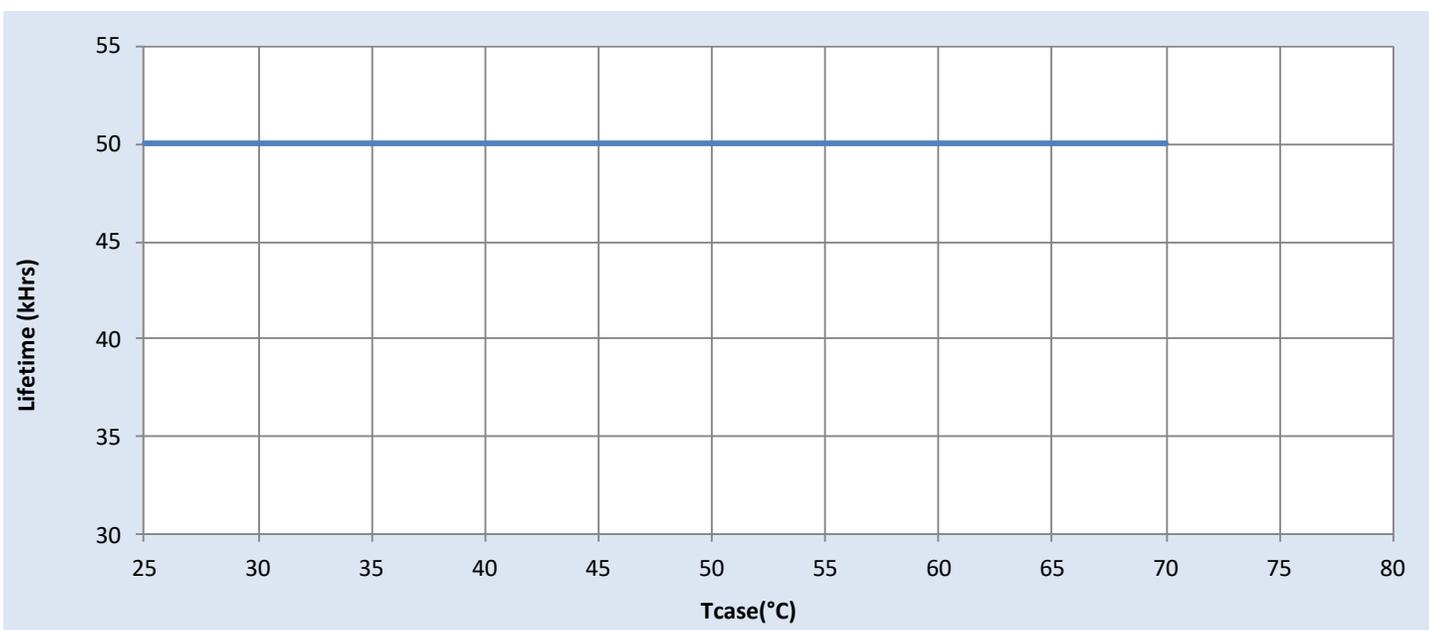
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## Output Current Vs. Driver Case Temperature



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

## Driver Lifetime Vs. Driver Case Temperature



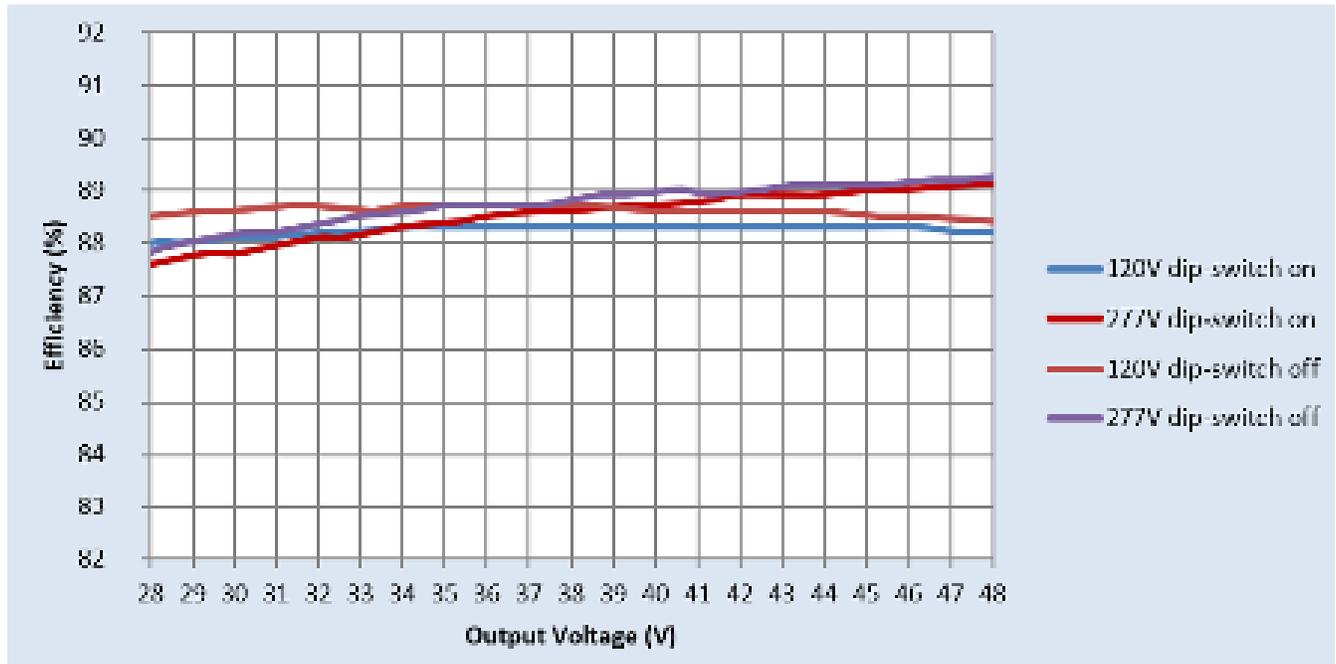
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## Performance Characteristics

Based on measurements on a typical sample at 70°C case. The accuracy of the measurements is within the tolerance of the measurement instruments.

## Efficiency Vs. Output Voltage



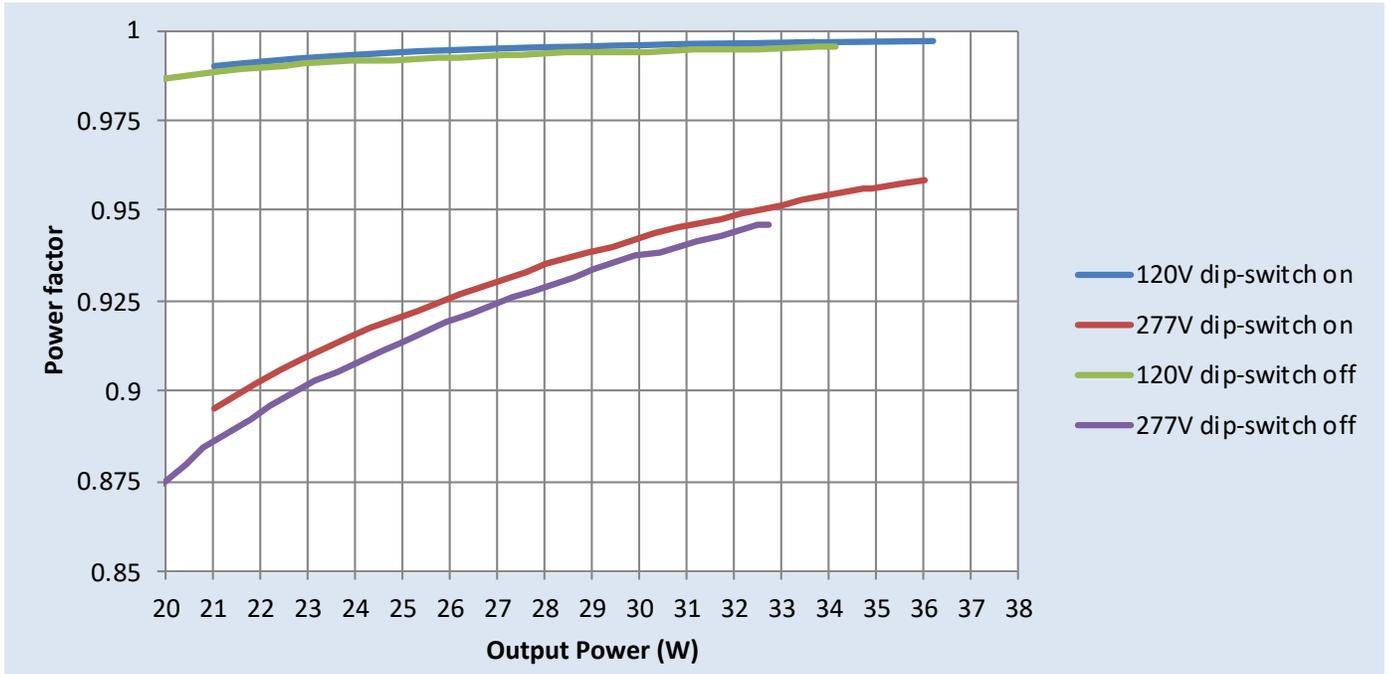
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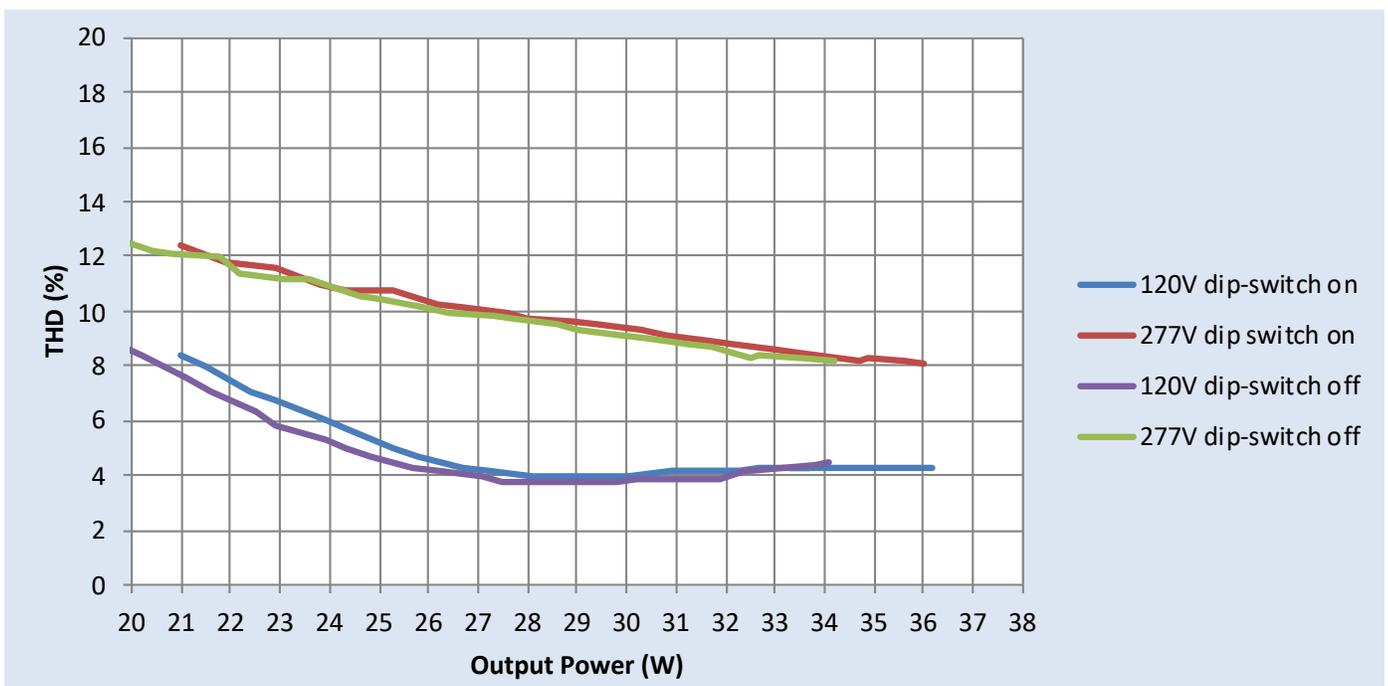
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### Power Factor Vs. Output Power



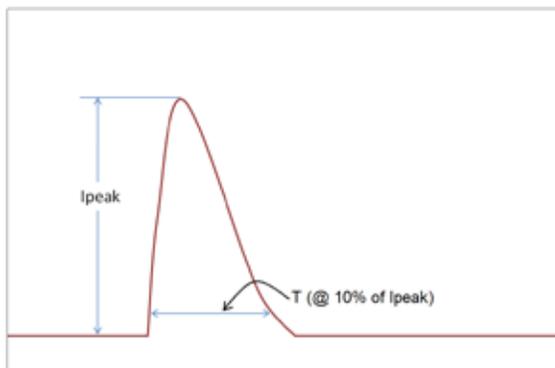
### Total Harmonic Distortion (THD) Vs. Output Power



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## Inrush Current Info



Vin	Ipeak	T (@ 10% of Ipeak)
120 Vrms	10.7A	6.1μS
277 Vrms	26.6A	7.56μS

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)
100 kHz Ring Wave (w/t 30Ω)	2.5kV	2.5kV

## Isolation

Isolation	Input	Output	0-10V	Enclosure
Input	NA	2xU+1kV	2xU+1kV	2xU+1kV
Output	2xU+1kV	NA	2xU+1kV	500V
0-10V	2xU+1kV	2xU+1kV	NA	2xU+1kV
Enclosure	2xU+1kV	500V	2xU+1kV	NA

U = Max working voltage



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