



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.

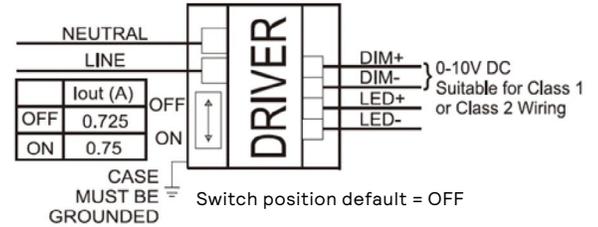
Specifications

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
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%
277				88		0.15						Analog	

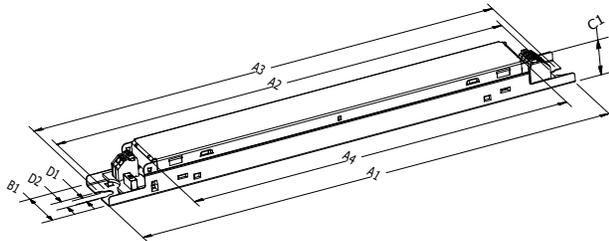
Enclosure

	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

Wiring Diagram



Lead-wires are 18AWG 105C/600V solid copper. Install in accordance with national and local electrical code, USE 18AWG Solid and tinned stranded copper wires.



CertaDrive CI036C075V048CDX1

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

Features

- 50,000+ hour lifetime¹
- Excellent thermal performance
- High power factor & low THD²

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% ²
Protected	Short Circuit protection
Over Voltage Protection	52V+/-4V Hiccup mode protection
Features	
0-10V Dimming	See dim curve for detail.
Environment & Approbation	
Operating Ambient Temp. Range	-20°C to +40°C
Max Case Temperature (Tcase) ³	80°C, Tcase Life: 70°C
Agency Approbations	UL 8750, UL 1310, CSA 250.13, Class P (UL, CSA, ETL)
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_{out}) variation includes effects of line and load regulation, temperature variation and component tolerances.

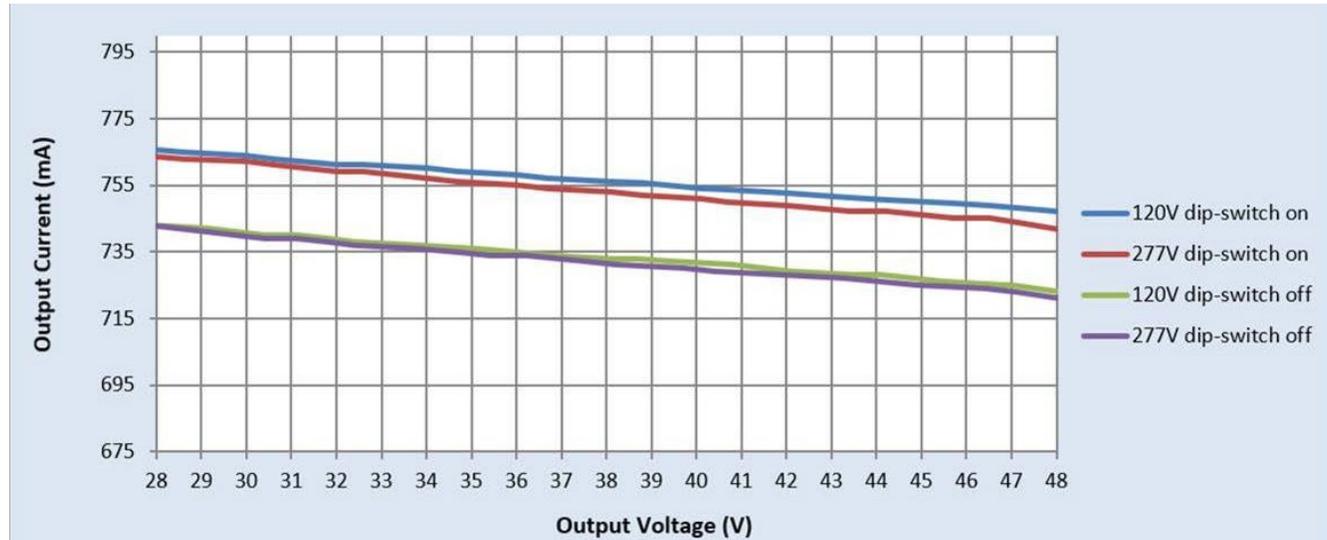
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I_{out} Vs. V_{out}



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0-10V Dimming Curve

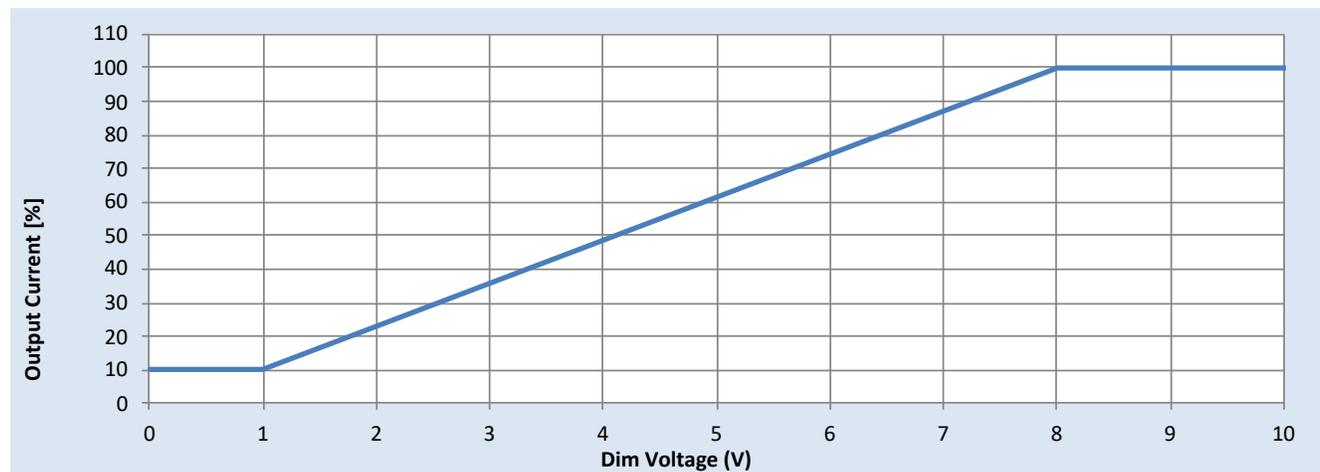
Dimming source current from the driver: 100µA-250µA (@ 1<Vdim<8V)

Minimum dim level: 10% of Iout

Maximum output voltage on the dimming wires: 12V

Approved Dimmer List

Manufacturer	Manufacturer Part Number
Lutron	Visit www.lutron.com
Leviton	IllumaTech IP7 series
Advance	Sunrise - SR1200ZTUNV



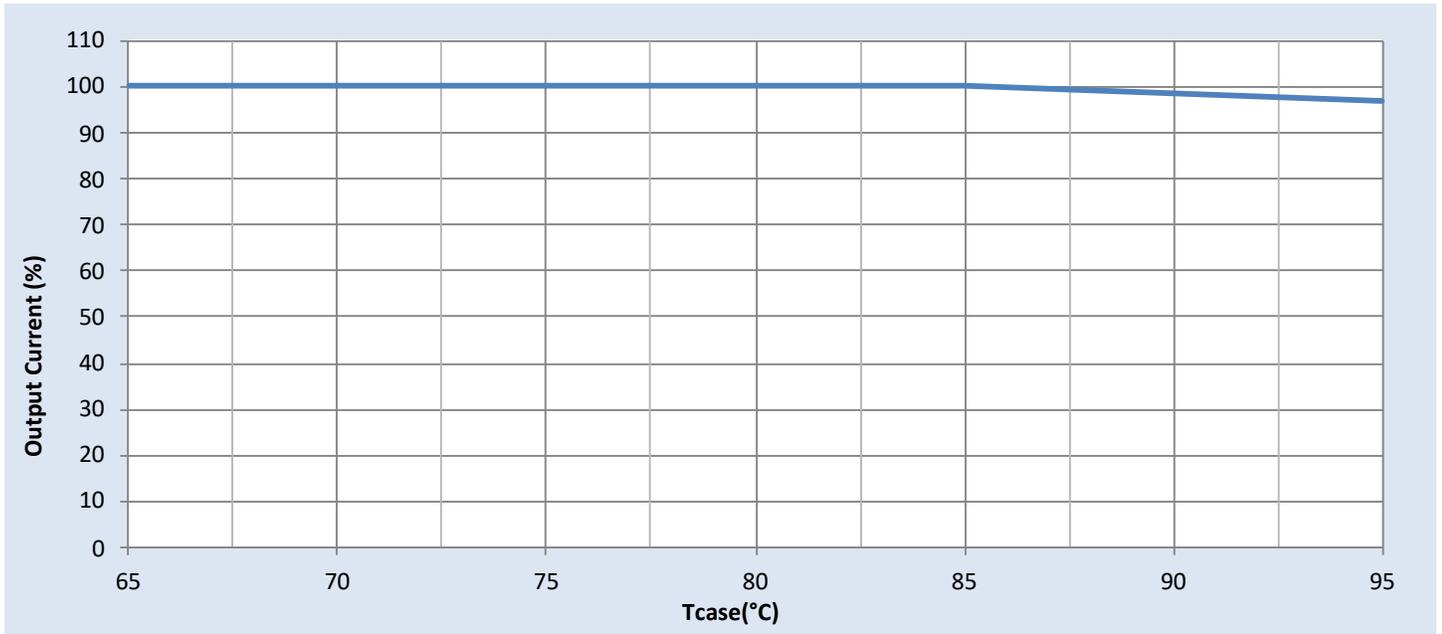
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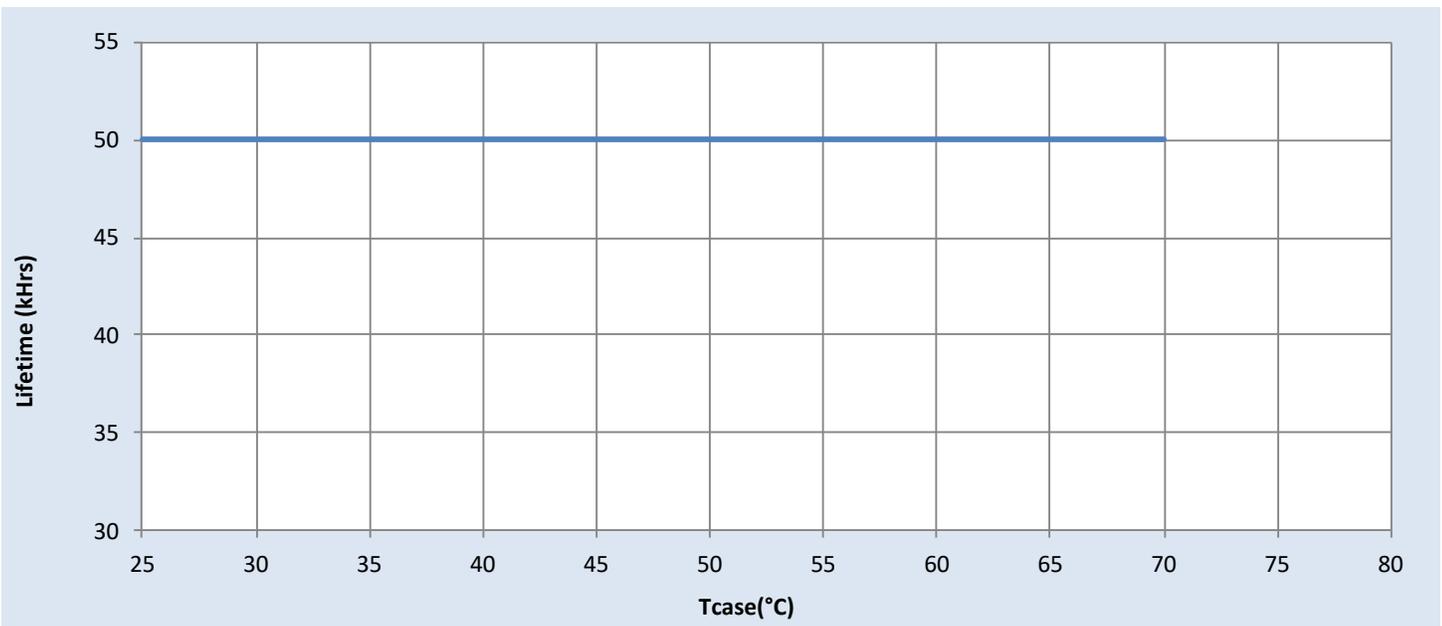
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Output Current Vs. Driver Case Temperature



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

Driver Lifetime Vs. Driver Case Temperature



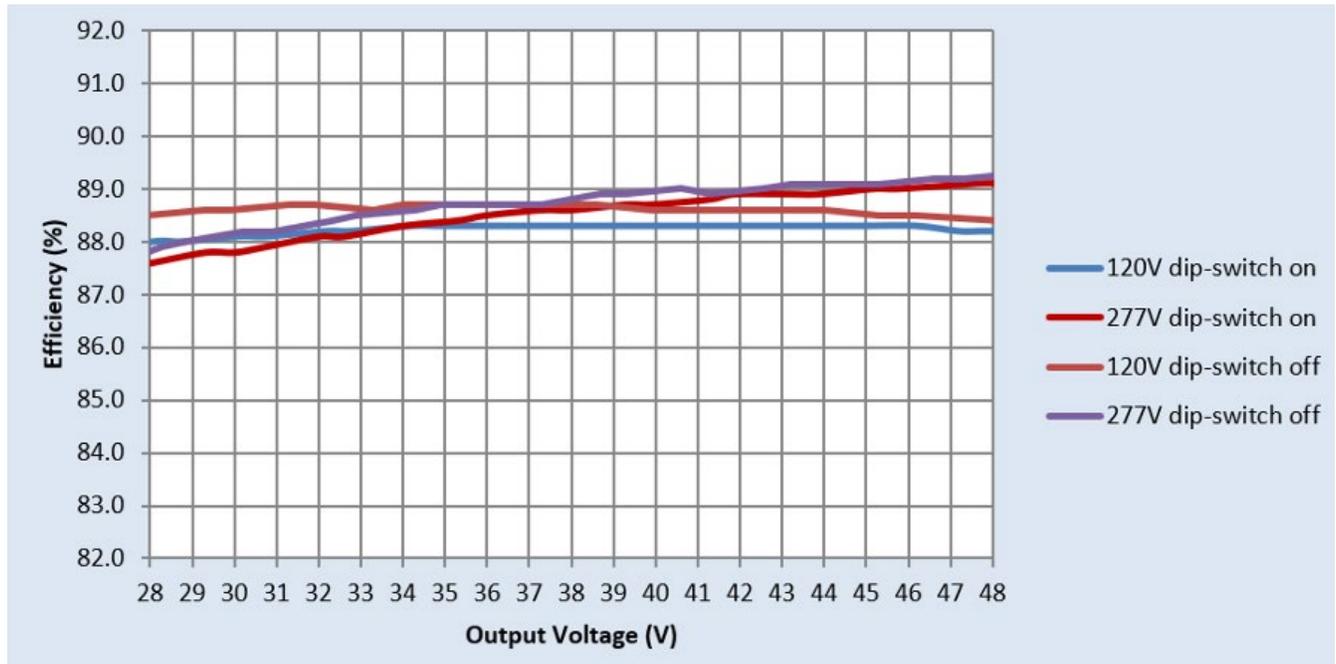
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Performance Characteristics

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



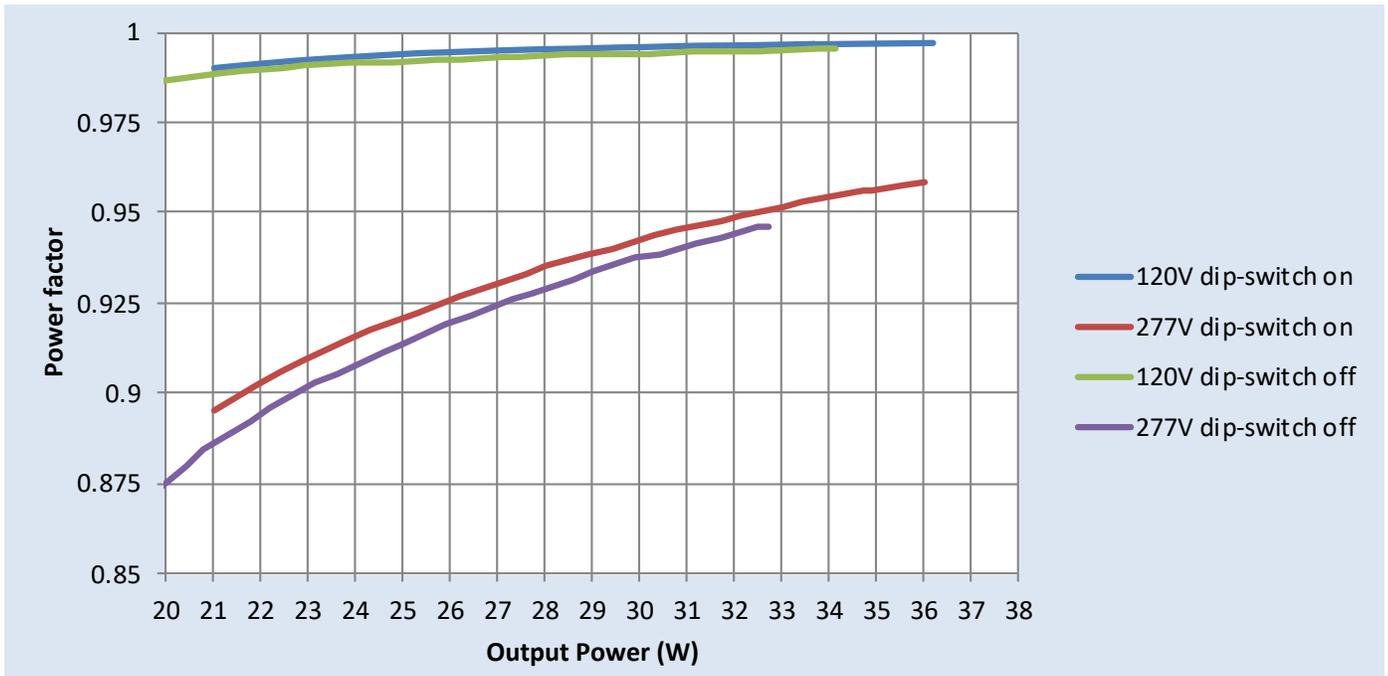
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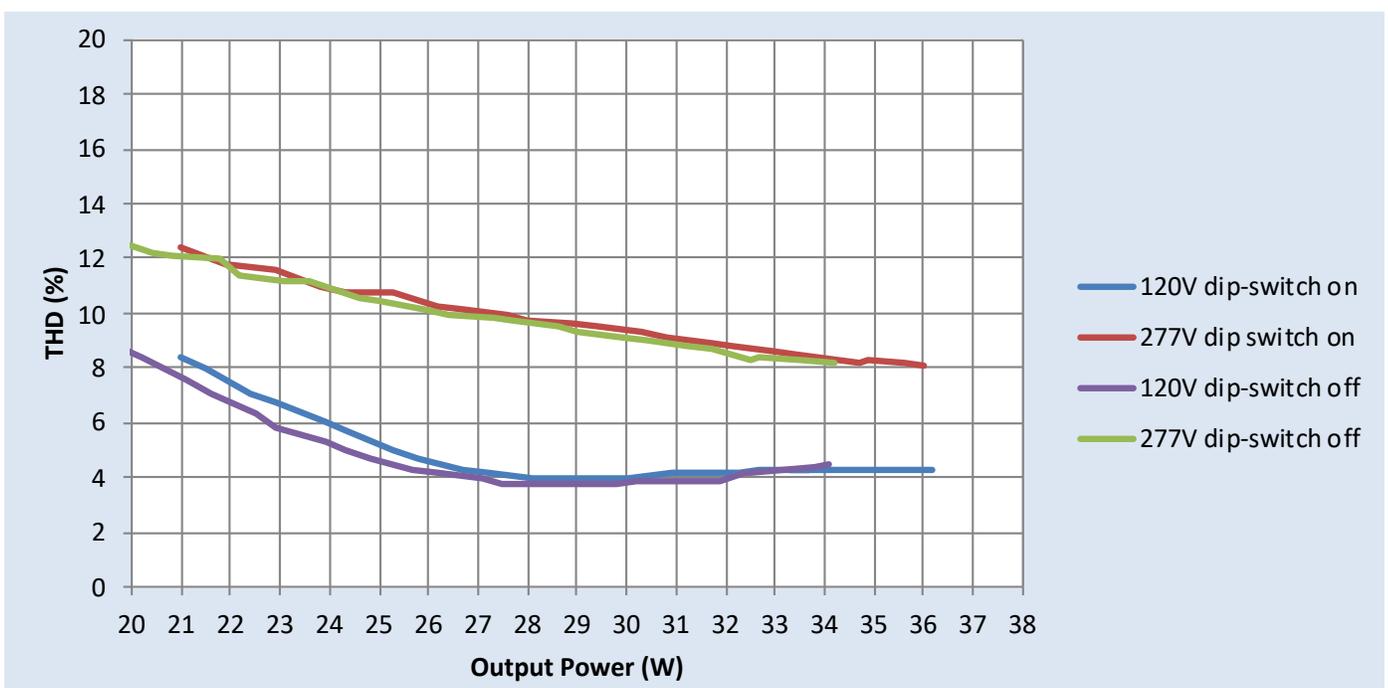
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Power Factor Vs. Output Power



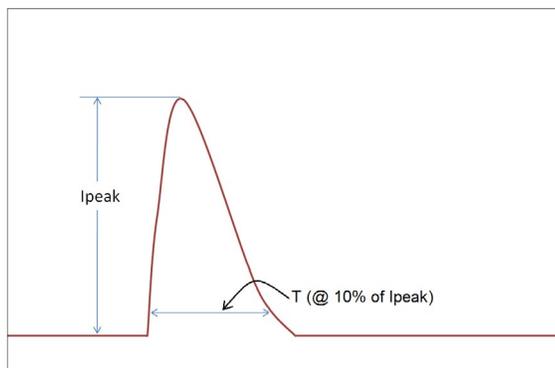
Total Harmonic Distortion (THD) Vs. Output Power



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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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