



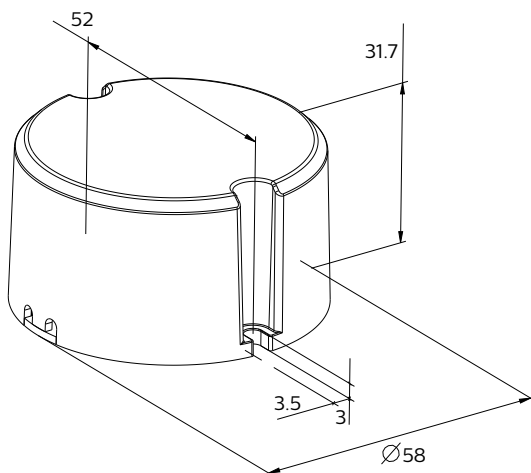
Advance CertaDrive indoor LED drivers are designed to meet basic lighting needs. These drivers are offered with specific voltage-current settings and are, thus, optimized with specifications that are appropriately suited for the application, making LED conversion affordable.

### Specifications

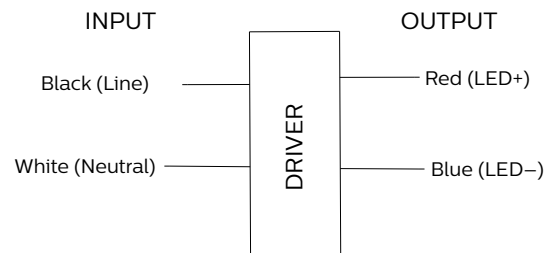
Input Volt. (Vac)	Output Power (W)	Output Volt. (V)	Output Current (A)	Efficiency @ Max. Load and 70°C Case (%)	Max. Case Temp. (°C)	Input Current (A)	Max. Input Power (W)	THD @ Max. Load (%)	Power Factor @ Max. Load	Surge Protect. (Combi-Wave, KV)	Envir. Protect. Rating	Dim	Dimming Range (with specified dimmers)	Min. Output Current (A)	Other Comments	Driver Type
120	14	21-42 Class 2 Output	0.35	86%	Life-85°C UL-90°C	0.17	16	<15%	>0.95	2.5	UL damp & dry	LE + TE Leading Edge & Trailing Edge	3% ~ 100%	0.00105	Only @ 120V	Constant Current

### Enclosure

R can	In. (mm)
Case Diameter	2.283 (58)
Case Height	1.25 (31.7)
Mounting Length	2.05 (52)



### Wiring Diagram



Input and output use lead-wires.

Input lead-wires are 18AWG 105C/600V stranded copper wires.

Output lead-wires are 22AWG 105C/600V stranded copper wires.

Input lead length outside enclosure: 162mm(+/-10mm)

Output lead length outside enclosure: 254mm(+/-10mm)

All wires have tinned ends.

For connections use wire rated for at least 90°C (194°F).

Pour Les connexions utiliser des conducteurs d'alimentation convenant 90°C (194°F).

### Warning

- Install in accordance with national and local electrical codes.

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

USE ONLY WITHIN AN ENCLOSURE  
DOIT ÊTRE INSTALLÉ DANS UNE ENCEINTE  
USAR UNICAMENTE DENTRO DE UN GABINETE



# CertaDrive CR014C035V042RNR1

14W 0.35A 42V LE+TE 120

## Features

- 50,000+ hour lifetime<sup>1</sup>
- UL Class 2 output with adjustable drive current
- Leading edge / Trailing edge dimming
- Compact form factor

## Benefits

- Enables easy design-in with excellent thermal performance
- Enables simple, fast, flexible application-specific configurations
- Enables light levels suited for the application
- Enables design of low profile fixtures

## Application

- Indoor downlight and track applications
- Retail
- Hospitality

## Electrical Specifications

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

## Product Data

Order Information	
Full Product Code	CR014C035V042RNR1M (Mid-Pack, 24pcs/Box), 12NC: 929001769913
Line Frequency	60Hz
Min. Mains Voltage Operational	108 Vac
Max. Mains Voltage Operational	132 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 (within full output operating range)	350mA: (-8% / +8%)  Output Current variation includes effects of line and load regulation, temperature variation and component tolerances
Protections	Short Circuit, Open Circuit Protection for LED + and LED - and Temperature Foldback
Features	
Dimming	LE + TE dimming 3% min
Environment & Approbation	
Operating Ambient Temp. Range	-20°C to +75°C
Max Case Temperature (Tcase)	Max. 90°C, Tcase Life: 85°C
Agency Approbations	UL8750, Class P (UL, cUL)
Electromagnetic Compliance	FCC Title 47 Part 15 Class B
Audible Noise	<24dB Class A
Weight	0.29 lbs. / 130 g

1. Advance CertaDrive LED drivers are manufactured to engineering standards correlating to a designed and average life expectancy of 35,000 hours of operation at maximum rated case temperature. Minimum 90% survivals based on MTBF modeling.

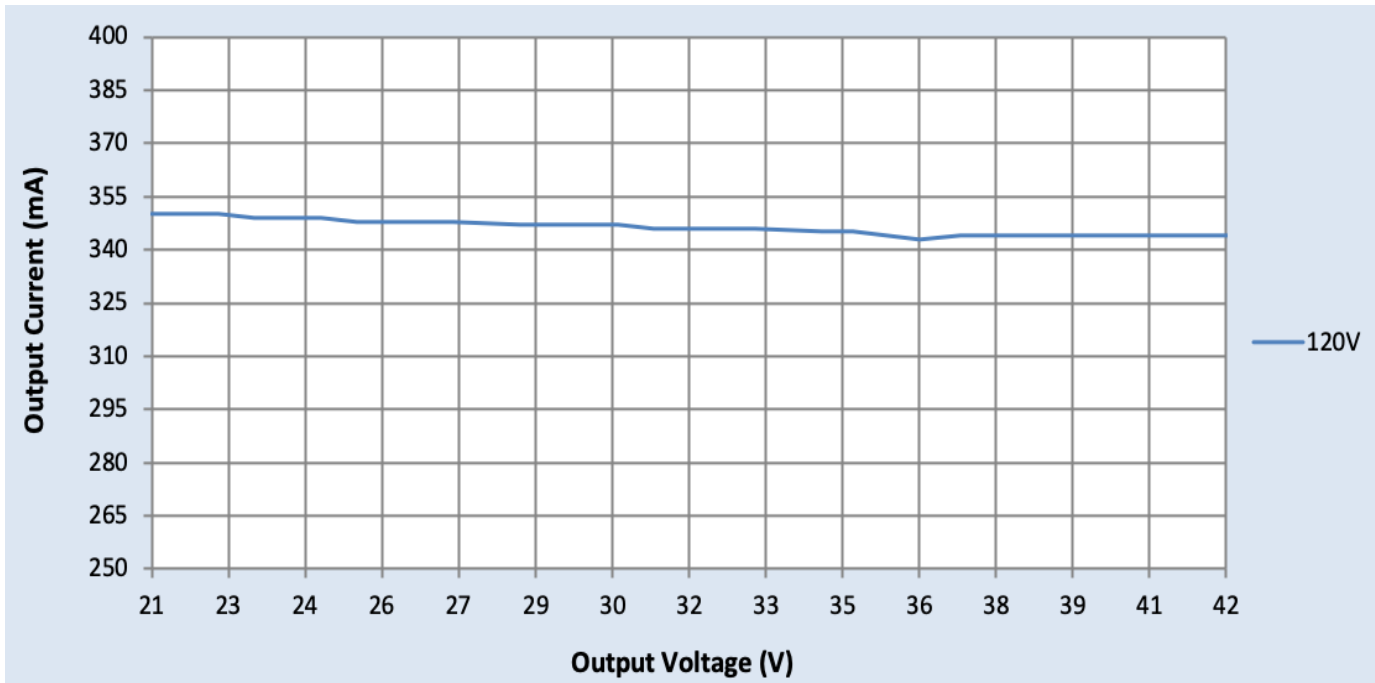
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### I<sub>out</sub> Vs. V<sub>out</sub>



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## Electrical Specifications

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## Approved Dimmer List

### Leading edge dimmers

Manufacturer	Manufacturer Part Number	Additional Considerations
Lutron	SLV-600X	Dimmers can be loaded up to 80% of their max power rating. The minimum number of drivers per dimmer is 1.
	S2-LX	
	GL-600H	
	NFTU-5A	
	DVCL-153P	
	DVLV-600P	
	6602-x	
6681-x		
6683-x		
6684-x		
700-x		
705-x		
6633		
6674		
IPI06-1LZ		
Cooper	9530XXX	
Lightolier	MP600X	
Philips	SR150LED120	

### Trailing edge dimmers

Manufacturer	Manufacturer Part Number	Additional Considerations	
Lutron	NTELV-600-XX	Dimmers can be loaded up to 80% of their max power rating. The minimum number of drivers per dimmer is 1.	
	SELV-303P		
	MAELV-600-XX		
	DVELV-300P-XX		
	SELV-300P-XX		
Leviton	IPE04-1LZ		
	VZE06-1LX		
	6615-POT		
Philips	SR400RPC120		

## Note:

Minimum Dimming level: Up to 3% @ conduction angle of 25 degrees (performance dependant on dimmer model).

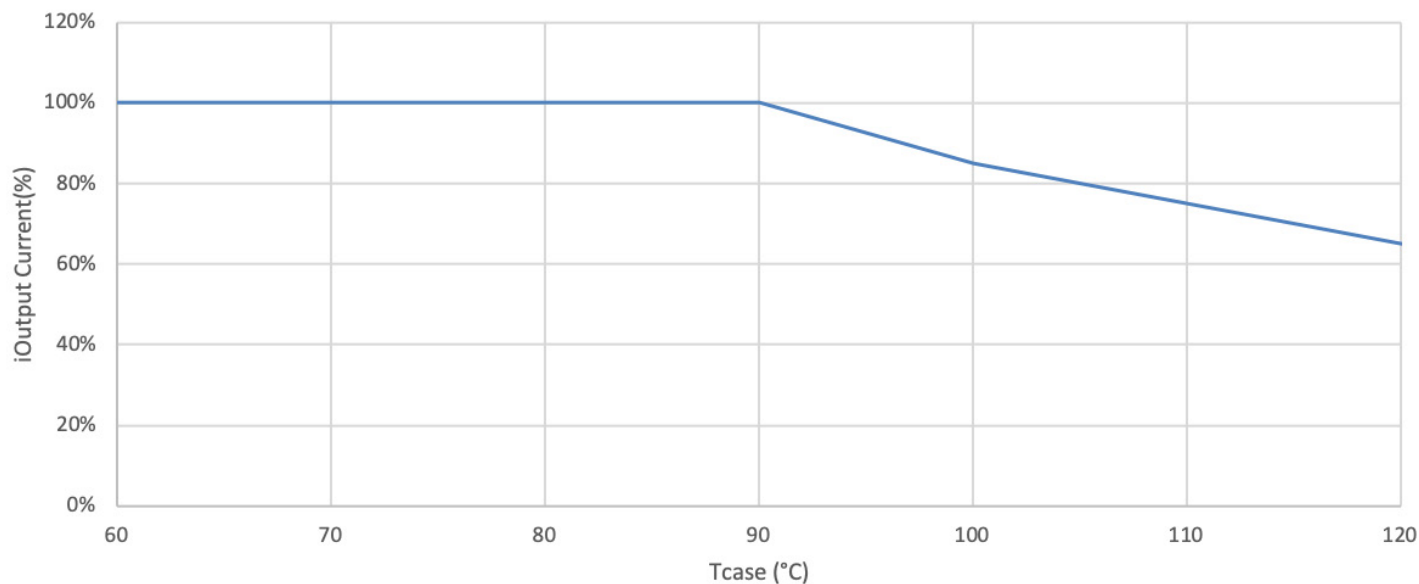
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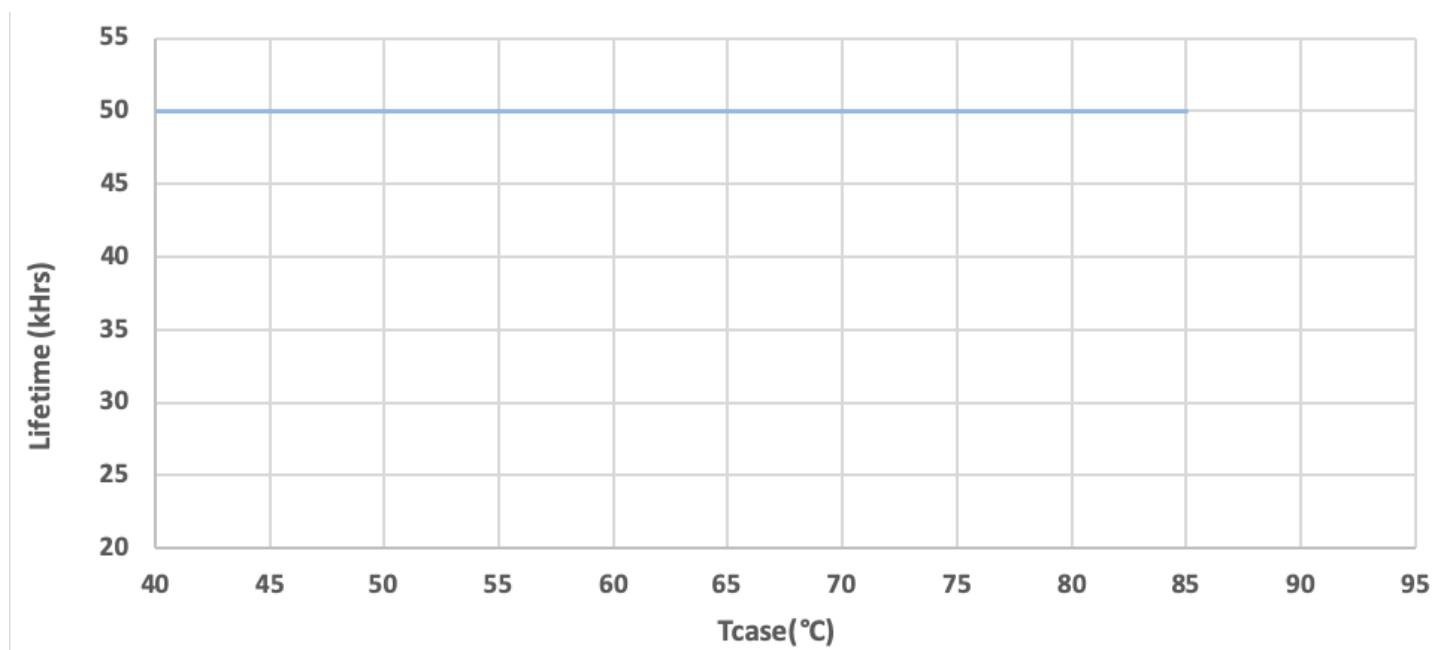
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### Output Current Vs. Driver Case Temperature



### Driver Lifetime vs. Driver Case Temperature



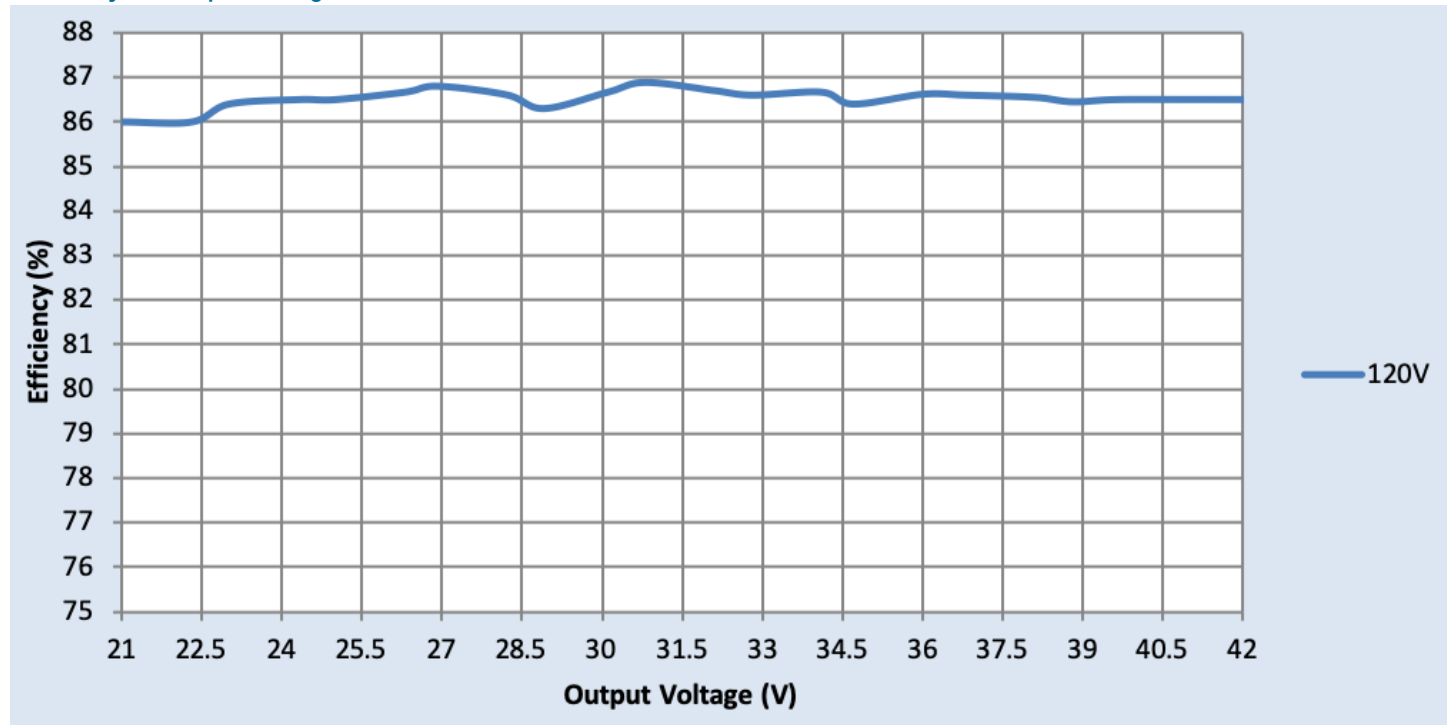
# CertaDrive CR014C035V042RNR1

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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



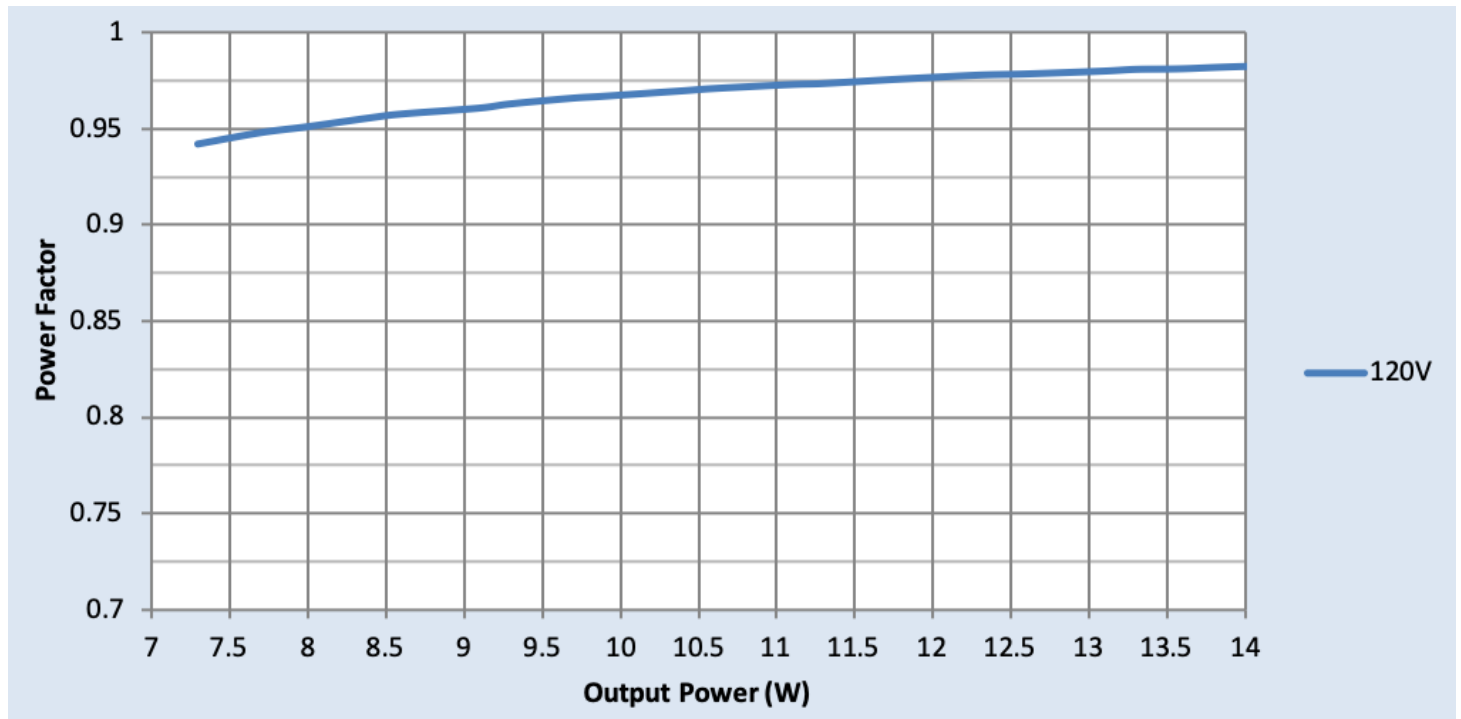
# CertaDrive CR014C035V042RNR1

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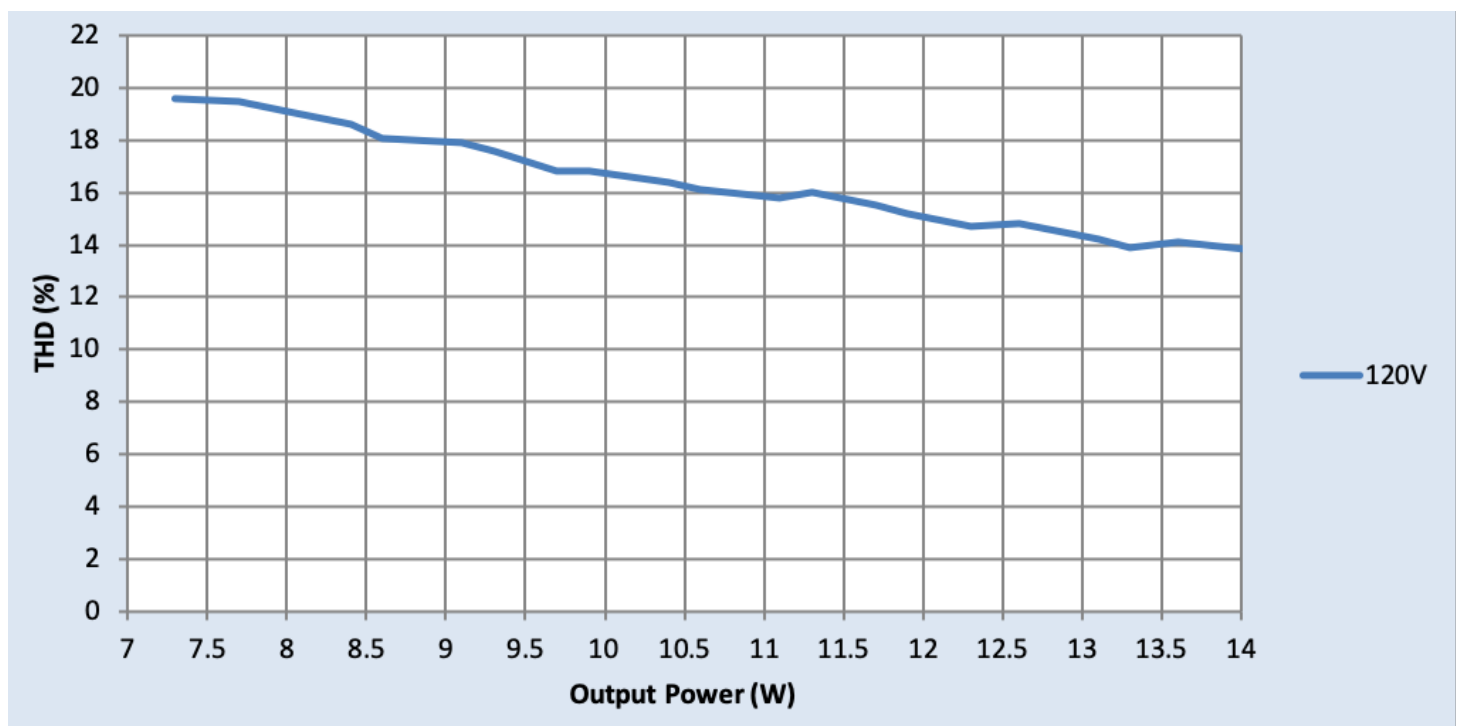
## Performance Characteristics

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### Power Factor Vs. Output Power



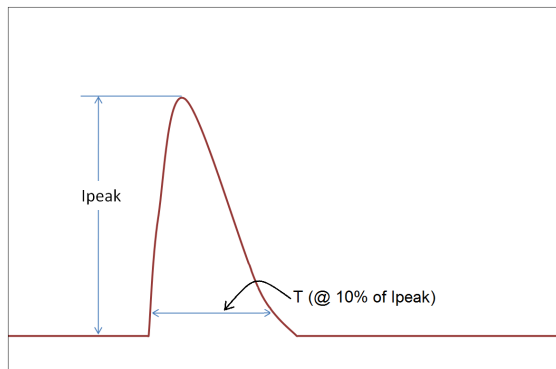
### Total Harmonic Distortion (THD) Vs. Output Power



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## Inrush Current Info



$V_{in}$	$I_{peak}$	T (@ 10% of $I_{peak}$ )
120 Vrms	6.8A	15 $\mu$ 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)
100 kHz Ring Wave (w/t 30 $\Omega$ )	2.5kV

## Isolation

Isolation	Input	Output
Input	n/a	2xU+1kV
Output	2xU+1kV	n/a

U = Max working voltage

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

