



Advance Xitanium Linear LED Drivers with SimpleSet technology are designed to give OEMs ultimate flexibility. With wide operating windows, slim profile and simple programming, luminaire manufacturers can design luminaires of different sizes and lumen levels for office and retail applications.

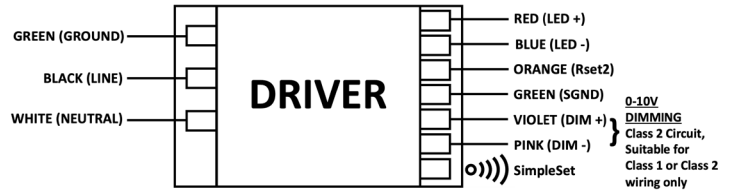
### Specifications

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 Common/Diff (KV)	Envir. Protection Rating	Driver Type
120	20	27 - 54 Class 2 Output	0.1 - 0.56	83	75°C Life 80°C UL	0.21	26	<10%	>0.95	>2.5	UL Dry & Damp	Constant Current
277				85		0.1						

### Enclosure

	In. (mm)
Case Length	10.0 (254)
Case Width	1.18 (30)
Case Height	1.00 (25)
Mounting Length	9.68 (246)
Mounting Width	
Overall Length	

### Wiring Diagram



### Warning

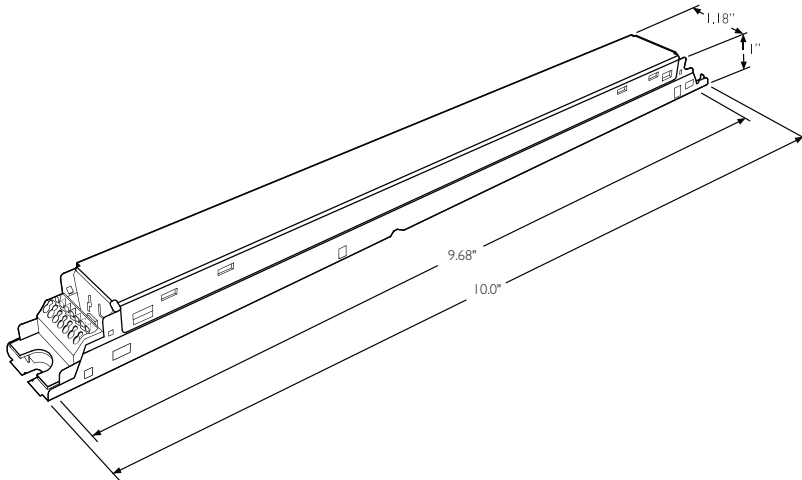
Driver case must be grounded.

Install in accordance with National and Local Electrical Codes.

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

Use 18 AWG solid copper wire rated  $\geq 300V/85^{\circ}C$ .

Strip wire 3/8".



Dimming	Dimming Range	Minimum Output Current (A)
0-10V Analog Class 2 Wiring	5% - 100% (for output current range 0.1-0.56A)	0.005



# Xitanium XI020C056V054BST1

20W 0.1-0.56A 54V 0-10V INT with SimpleSet

## Features

- Programmable output current through SimpleSet
- Large operating window
- Slim linear form factor

## Benefits

- Fast and simple way of programming
- Enables fixture designs with wide variety of loads and current
- Enables easy integration into narrow fixtures and troffers

## Application

- Indoor linear applications such as troffers and pendants
- Office
- Retail

## Electrical Specifications

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

## Product Data

Order Information	
Full Product Code	XI020C056V054BST1M (Mid-Pack, 18pcs/Box)
Line Frequency	50/60Hz
Min. Mains Voltage Operational	108V
Max. Mains Voltage Operational	305V
Output Information	
Maximum Open Circuit Voltage	<60Vdc
Output Current Ripple (ripple = peak to average / average)	15% max @ max lout Low frequency ( $\leq 120$ Hz) content <5%
Output Current Tolerance (In the performance window)	<5%
Protections	Short Circuit, Open Circuit Protection for LED + and LED - and Temperature Foldback
Features	
0-10V Dimming	150 $\mu$ A source current from driver. See dim curve for detail.
AOC (Adjustable Output Current)	100mA to 560mA via external resistor (Refer to graph and notes below.)
Environment & Approbation	
Operating Ambient Temp. Range	-20°C to +55°C
Max Case Temperature (Tcase)	75°C for Life & UL Safety
Agency Approbations	UL8750, UL1310, UL935
Electromagnetic Compliance	FCC Title 47 Part 15 Class A
Audible Noise	<24dB Class A
Weight	0.48 Lbs / 0.22 kgs

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## 0-10V Dimming Curve

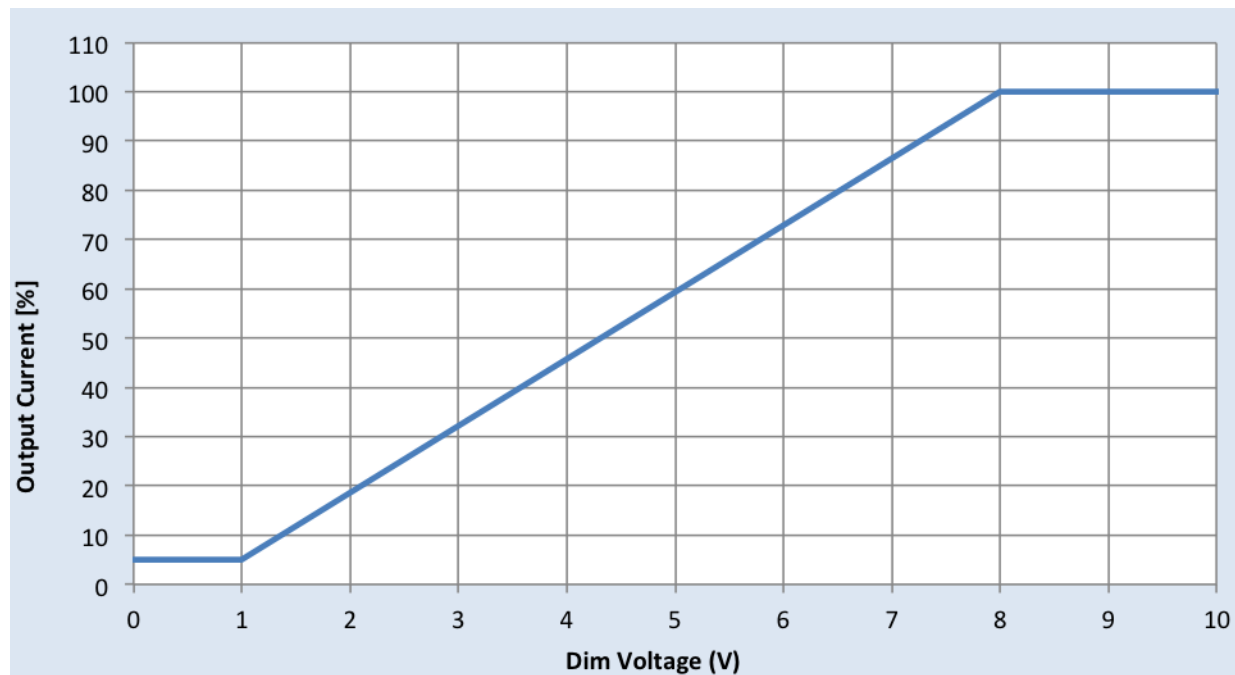
Dimming source current from the driver: 150µA (@ 0<Vdim<8V)

Minimum Dim Level: 5% of Iout (minimum 5mA)

Maximum output voltage on the dimming wires: 12V

## Approved Dimmer List

Manufacturer	Manufacturer Part Number
Lutron	Visit <a href="http://www.lutron.com/advance">www.lutron.com/advance</a> for a list of dimmers (Mark VII) that will work with this driver
Leviton	IllumaTech IP7 series
Advance	Sunrise - SR120OZTUNV



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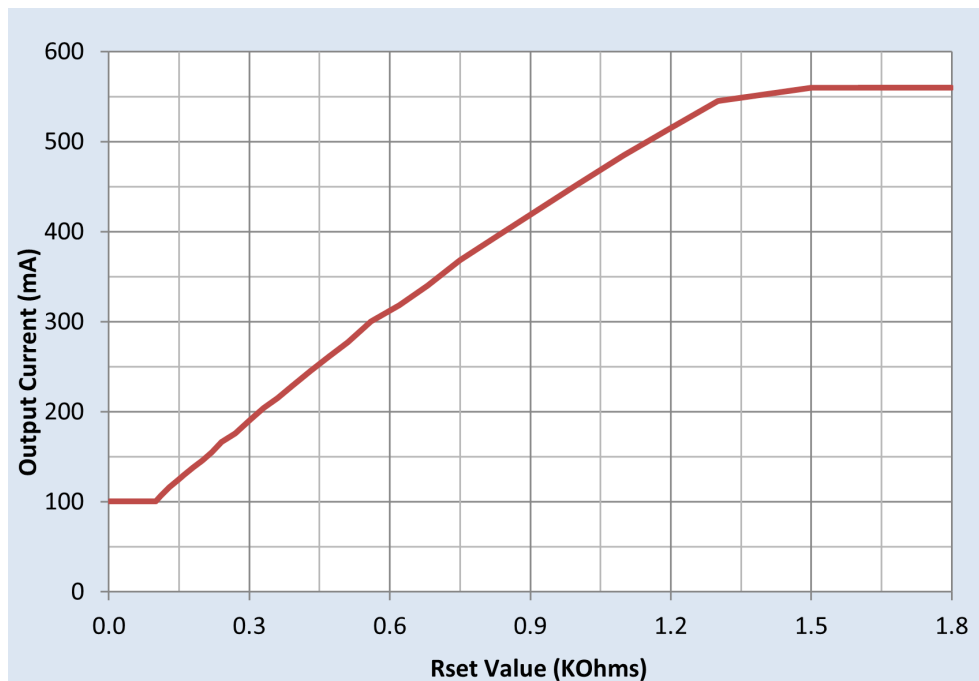
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## Electrical Specifications

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## AOC (Adjustable Output Current) Settings (Rset)

Rset (Ohms)	Current (mA)
1	100
100	100
110	106
120	111
130	116
150	125
160	130
180	138
200	146
220	155
240	166
270	176
300	190
330	204
360	215
390	228
430	245
470	261
510	277
560	300
620	318
680	340
750	368
820	392
910	422
1000	452
1100	485
1200	515
1300	545
1500	560
1600	560
1800	560
>100,000	560



## Notes

Current is set via a resistor between Rset2 and SGND leads.

Any through-hole or SMD resistor with >0.25W and >20V can be used as Rset.

Driver will default to 560mA when Rset is left open.

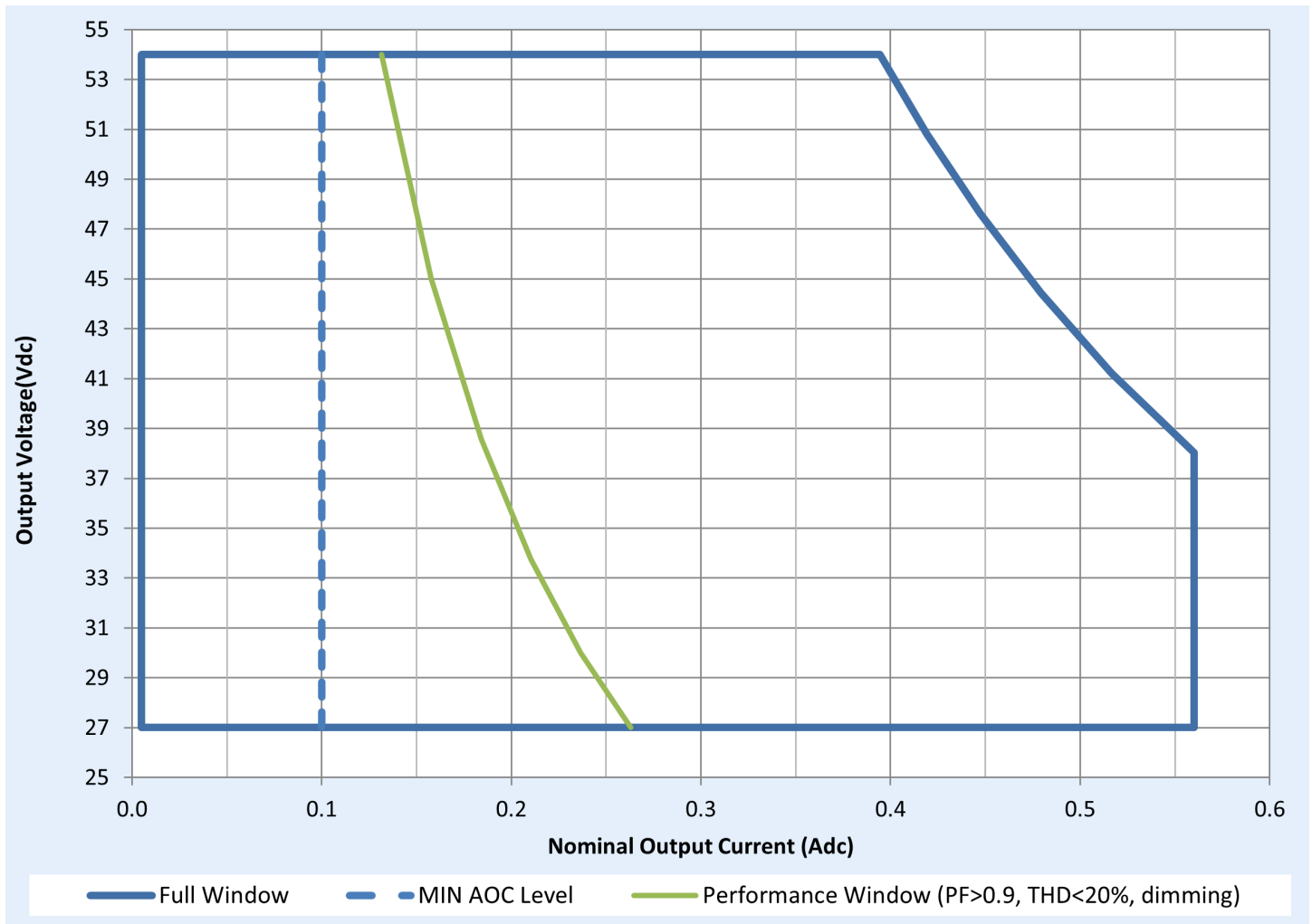
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## Operating Window



## Notes

For 5% dimming output current setting through AOC should be >0.1A.

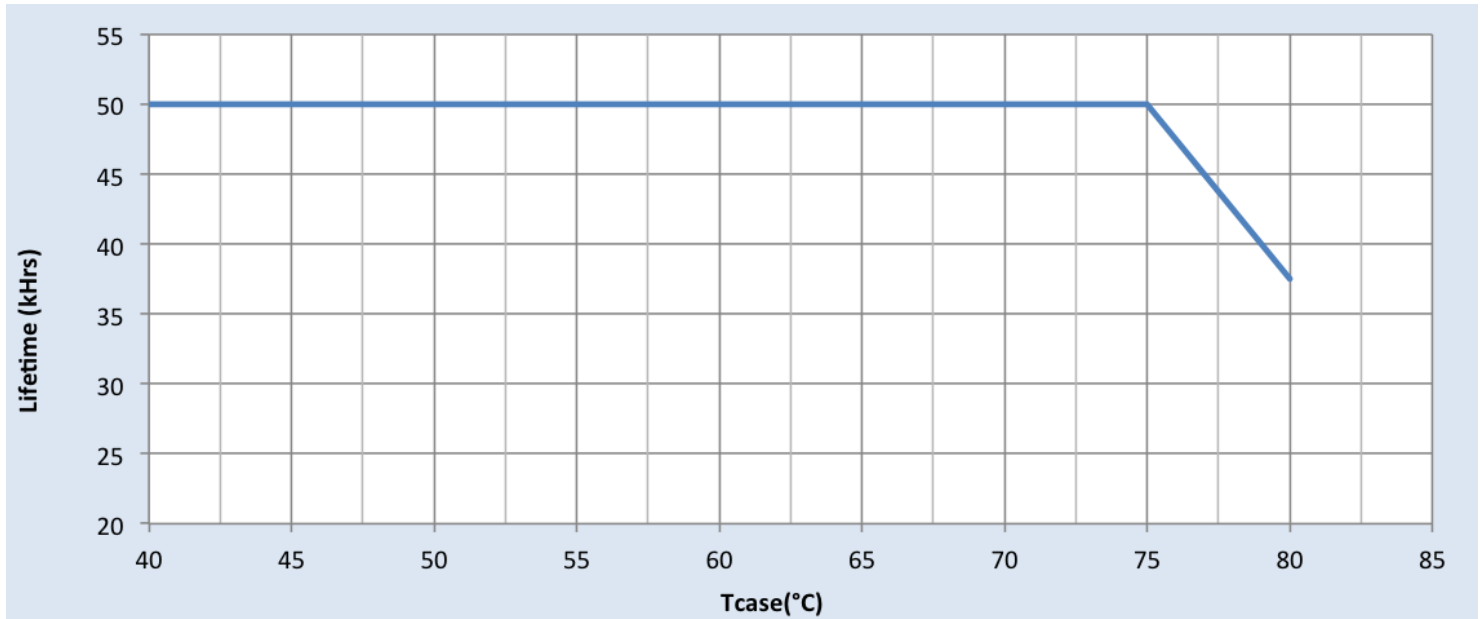
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## Electrical Specifications

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## Driver Lifetime Vs. Driver Case Temperature



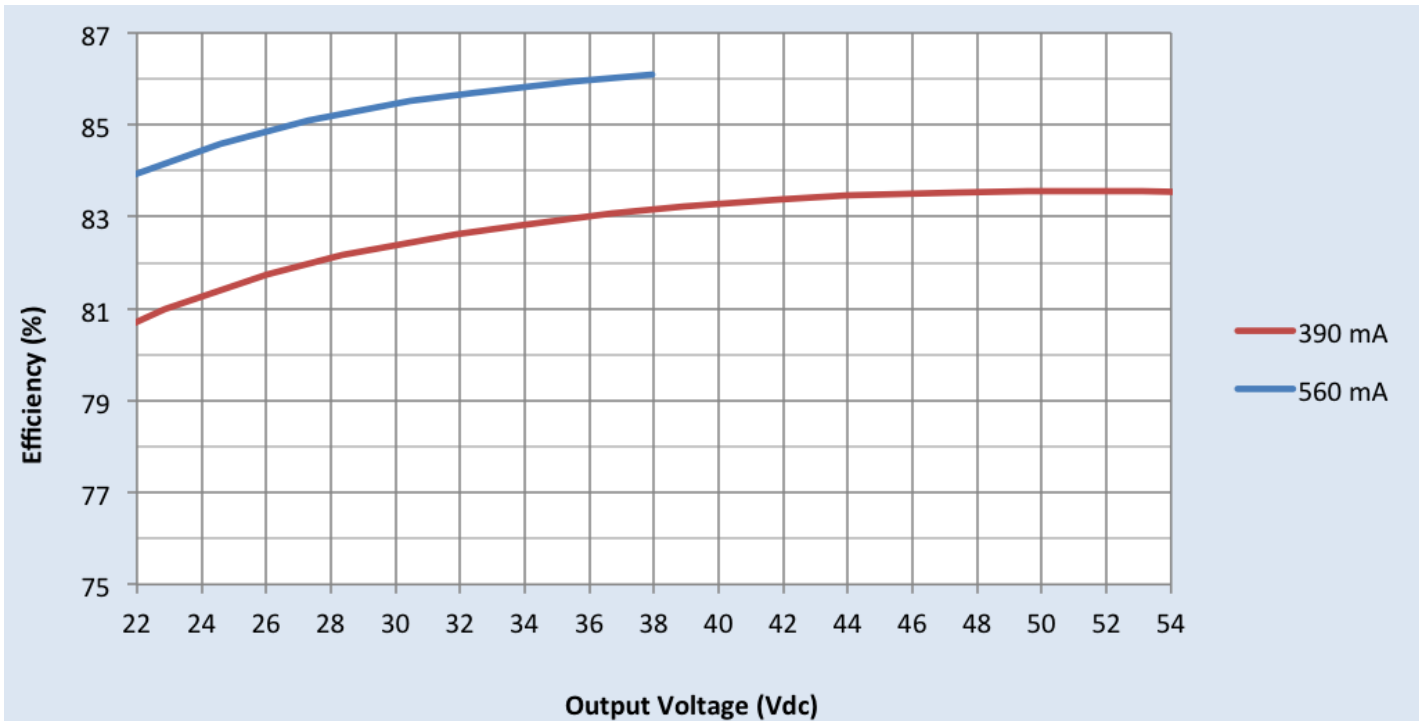
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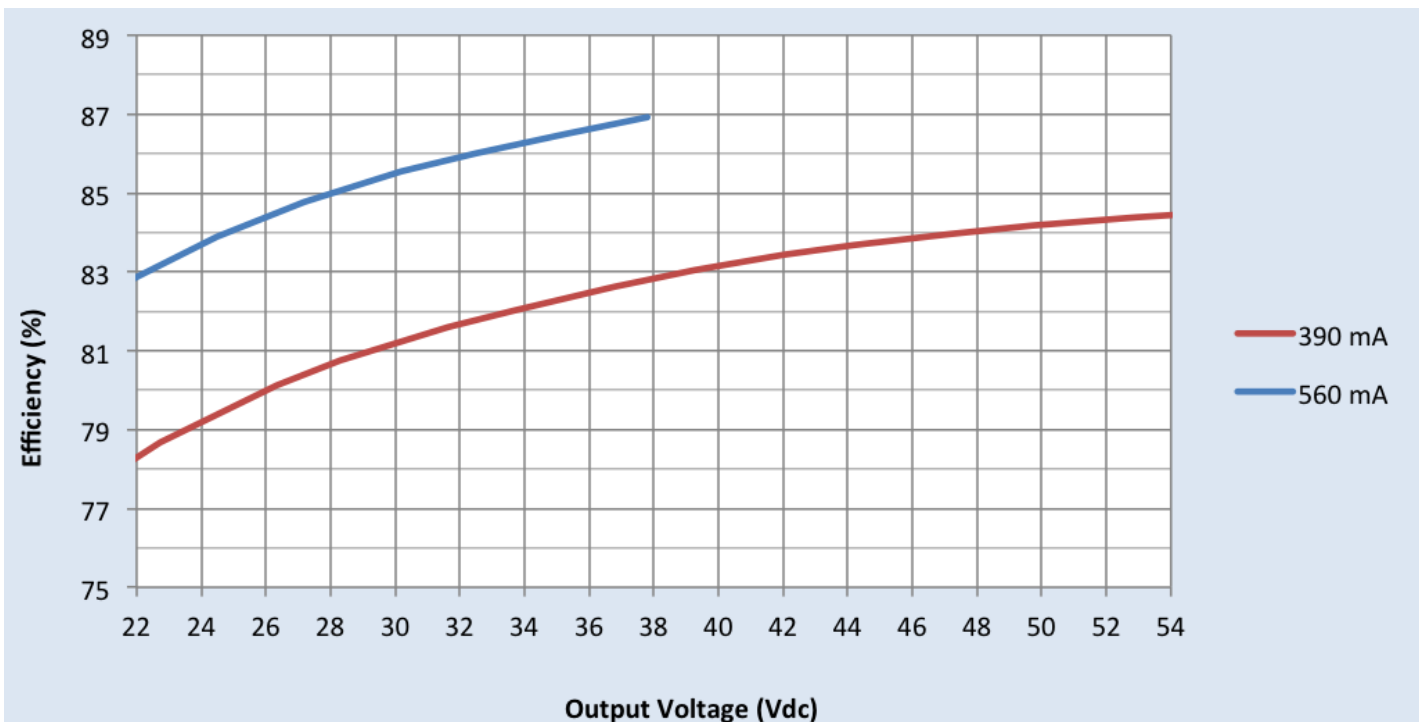
## Performance Characteristics

Based on measurements on a typical sample. 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 at 120Vac



### Efficiency Vs. Output Voltage at 277Vac



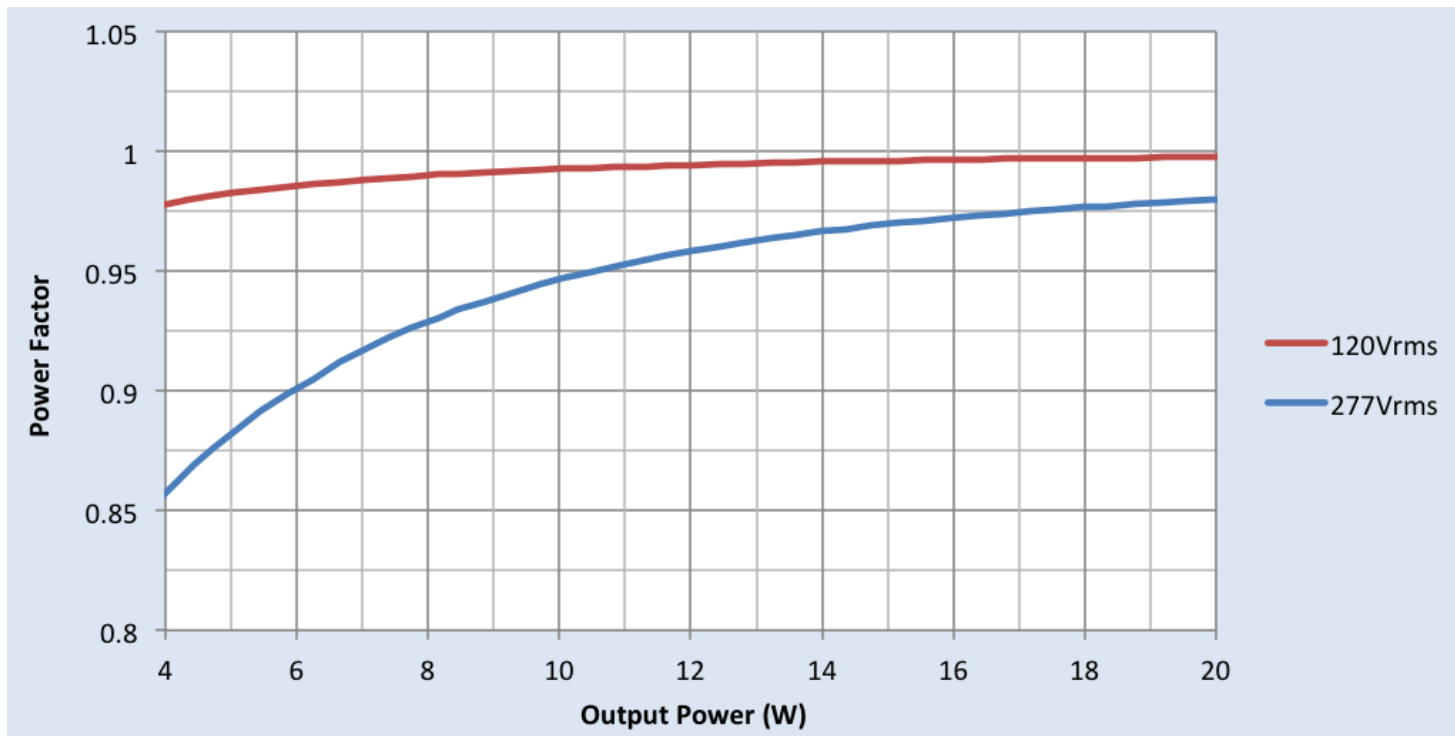
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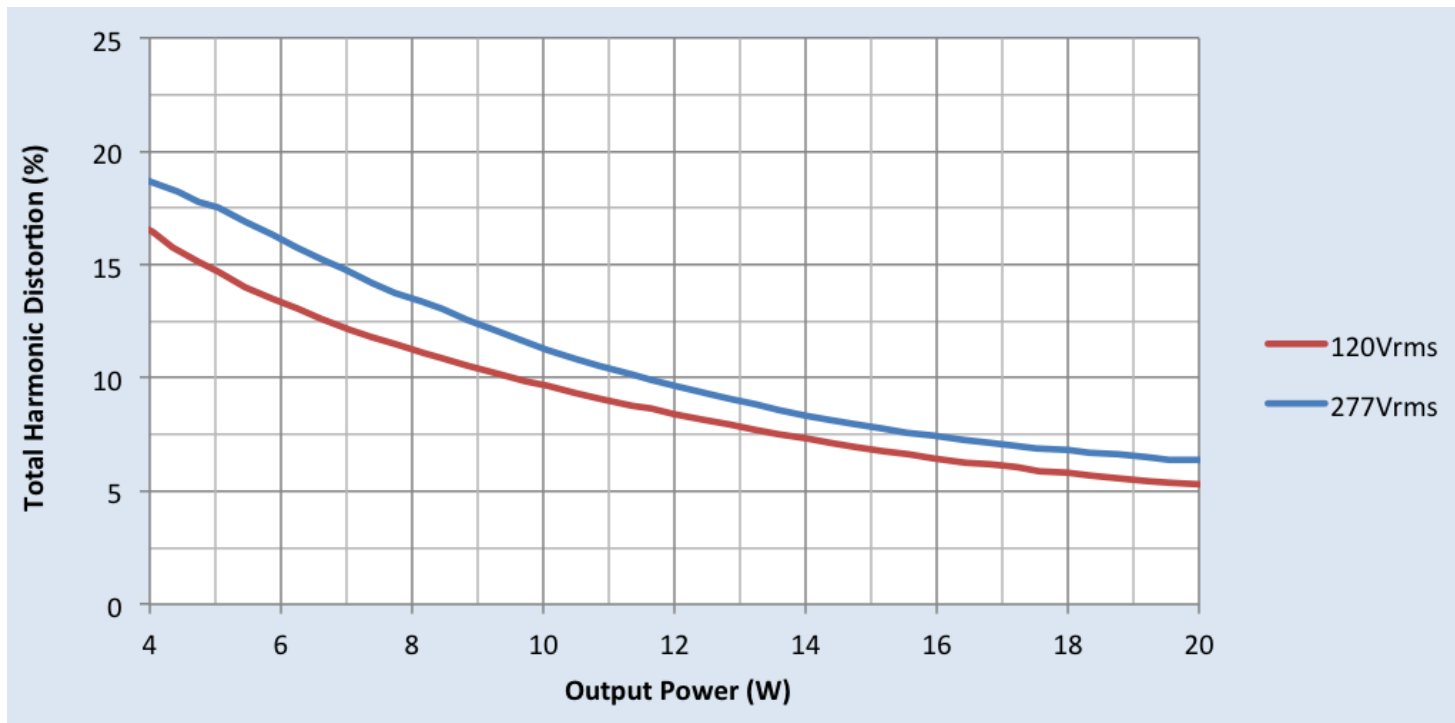
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### Power Factor Vs. Output Power



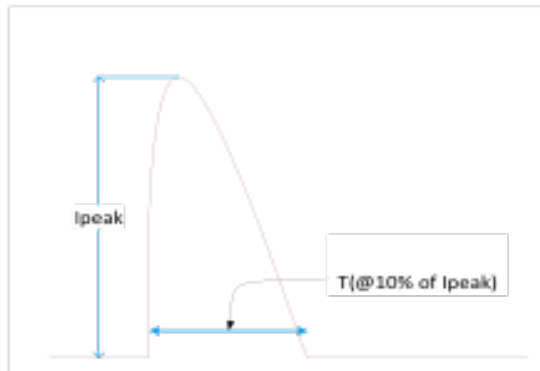
### Total Harmonic Distortion (THD) Vs. Output Power



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## Inrush Current Info



$V_{in}$	$I_{peak}$	T (@ 10% of $I_{peak}$ )
120 Vrms	10.5A	210 $\mu$ S
277 Vrms	25.5A	225 $\mu$ 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)	Common Mode (L-G, N-G, L&N-G)
100 kHz Ring Wave (w/t 30 <sub>2</sub> )	>2.5kV	>2.5kV

## Isolation

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

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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