



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

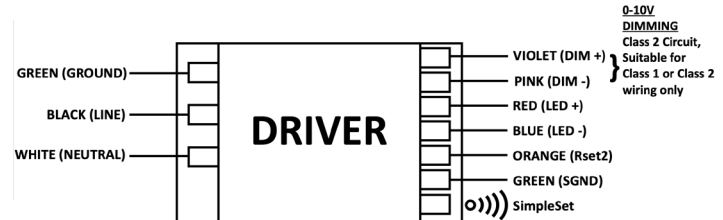
### Specifications

Input Voltage (Vac)	Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency@ 35.7V 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	Driver Type
347	75	27 - 54 Class 2 Output	0.1-2.0	88	85°C	0.26	90	<10%	>0.97	2.5	UL damp & dry	Constant Current

### Enclosure

	In. (mm)
Case Length	16.6 (424)
Case Width	1.18 (30)
Case Height	1.00 (25.4)
Mounting Length	16.6 (415)

### Wiring Diagram



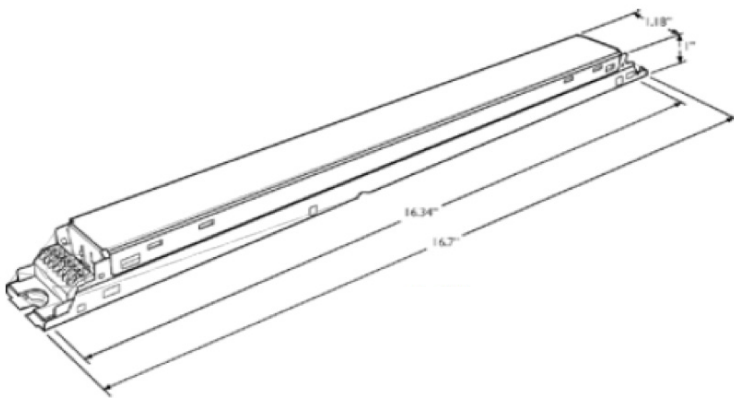
### Warning

Install in accordance with national and local electrical codes. Use 18AWG solid or tinned stranded copper wire.

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

### Grounding

Driver case must be grounded.



Dimming	Dimming Range (with specified dimmers)	Minimum Output Current (A)	Other Comments
0-10V Analog Class 1 or Class 2 Wiring	1% ~ 100% (for output current range 0.7-2.0A)	0.007	Dimming source current: 150 µA



# Xitanium XG075C200V054BST1

75W 0.1–2.0A 54V 0–10V 1% 347V with SimpleSet

## Features

- 50,000+ hour lifetime<sup>1</sup>
- SimpleSet programmable
- Large operating window
- 1% minimum dim level

## Benefits

- Slim profile housing enables easy design-in with excellent thermal performance
- Enables simple, fast, flexible application-specific configurations
- Enables fixture designs with comprehensive application coverage for various loads and lumen levels

## Application

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

## Electrical Specifications

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

## Product Data

Order Information	
Full Product Code	XG075C200V054BST1M (Mid-Pack, 18pcs/Box), 12NC: 929000775313
Line Frequency	50/60Hz
Min. Mains Voltage Operational	312 Vac
Max. Mains Voltage Operational	382 Vac
Output Information	
Maximum Open Circuit Voltage	< 60Vdc
Output Current Ripple (ripple = peak to average / average)	15% max. @ max lout 4% max. @ Visible for stroboscopic frequency range 60Hz-3KHz
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	150µA source current from driver. See dim curve for detail.
AOC (adjustable output current)	100mA to 2000mA via external resistor or SimpleSet programming (default set to 2000mA, refer to graph)
Additional SimpleSet Configurable Features	Adjustable minimum dimming level, Dimming curve selection (linear or logarithmic), Adjustable output level, Adjustable output min., OEM write protection
Environment & Approbation	
Operating Ambient Temp. Range	-20°C to +50°C
Max. Case Temperature (Tcase)	85°C
Agency Approbations	UL8750, UL1310, cUL, Class P (UL, cUL)
Electromagnetic Compliance	FCC Title 47 Part 15 Class A
Audible Noise	<24dB Class A
Weight	0.79Lbs/0.36 kgs

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 MTBF modeling.

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## 0–10V Dimming Curve

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

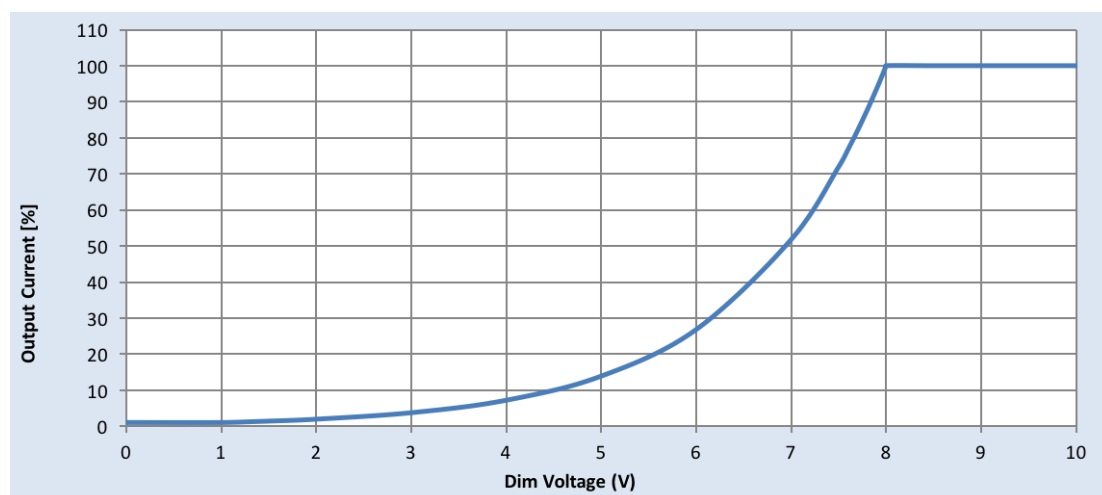
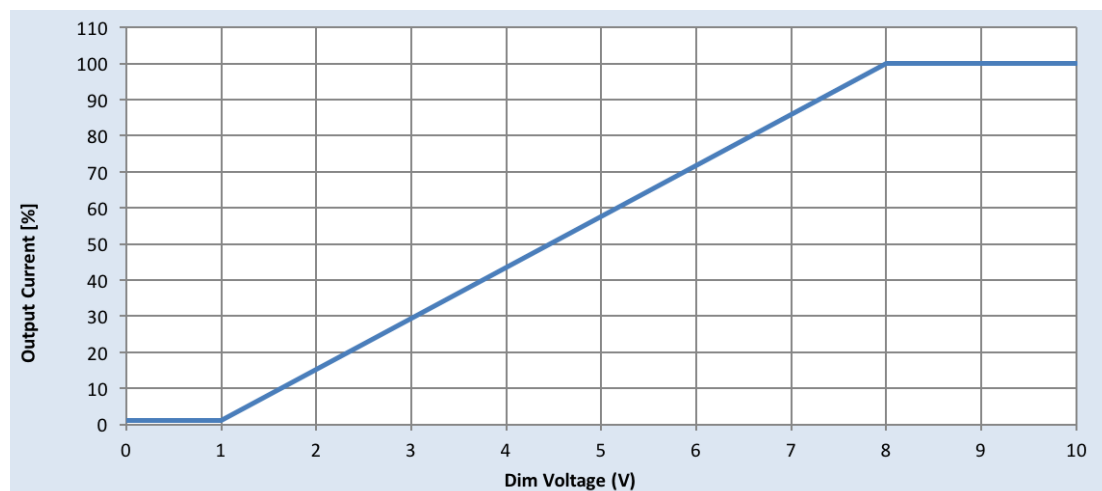
Minimum dim level: 1% of Iout (minimum 7mA)

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 <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 - SR1200ZTUNV



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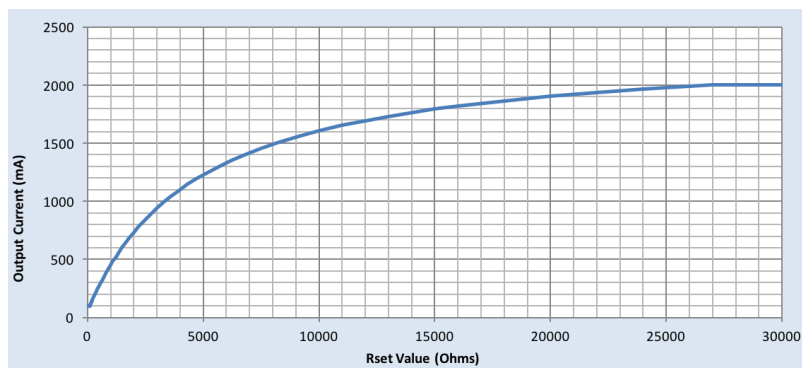
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### AOC (Adjustable Output Current) Settings (Rset)

Rset (Ohms)	Current (mA)	Rset (Ohms)	Current (mA)
0	100	2000	733
100	100	2200	780
110	105	2400	823
120	111	2700	883
130	116	3000	941
150	125	3300	993
160	130	3600	1042
180	138	3900	1085
200	146	4300	1143
220	155	4700	1192
240	166	5100	1238
270	176	5600	1293
300	190	6200	1350
330	204	6800	1402
360	215	7500	1454
390	228	8200	1503
430	245	9100	1558
470	261	10000	1604
510	277	11000	1653
560	297	12000	1694
620	318	13000	1730
680	340	15000	1793
750	368	16000	1817
820	392	18000	1864
910	422	20000	1902
1000	452	22000	1935
1100	485	24000	1965
1200	515	27000	2000
1300	545	30000	2000
1500	602	>100,000	2000
1600	632		
1800	684		



### Notes

1. Current is set via a resistor between Rset2 and SGND leads.
2. Any through-hole or SMD resistor with >0.25W and >20V can be used as Rset.
3. Driver will default to 2000mA when Rset is left open.

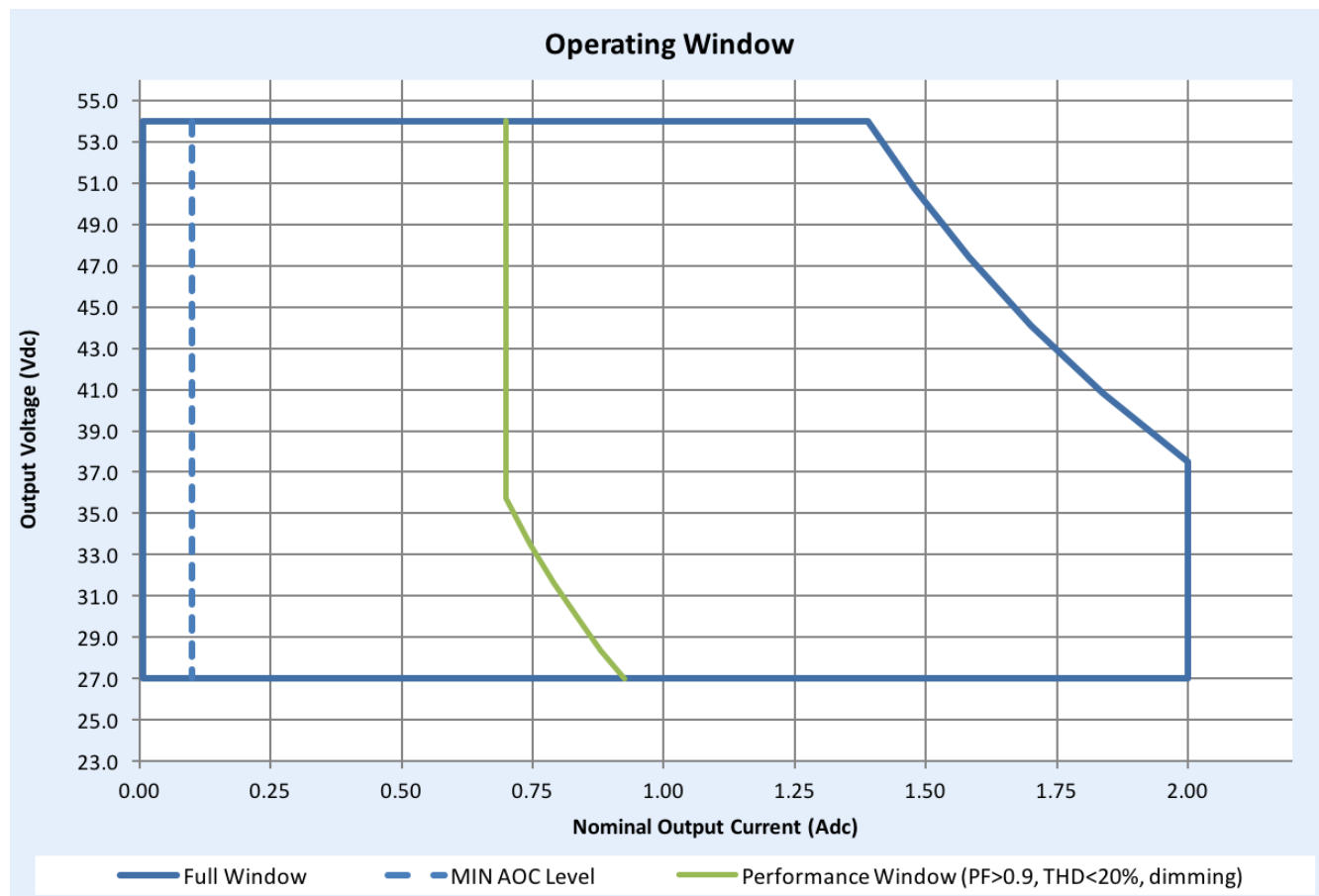
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## Driver Output Window



## Notes

1. Factory default output current is 2.0A.
2. For dimming to a minimum level of 1% the output current setting through AOC should be  $\geq 0.7A$ .

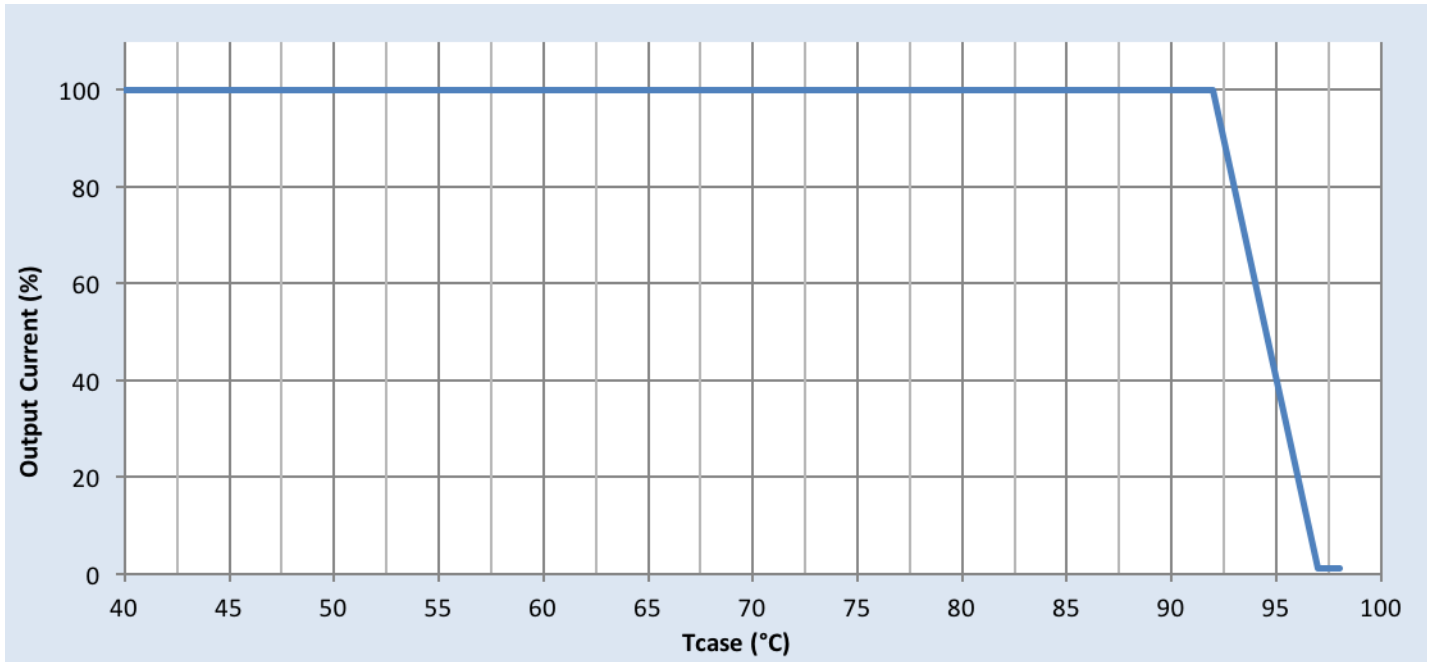
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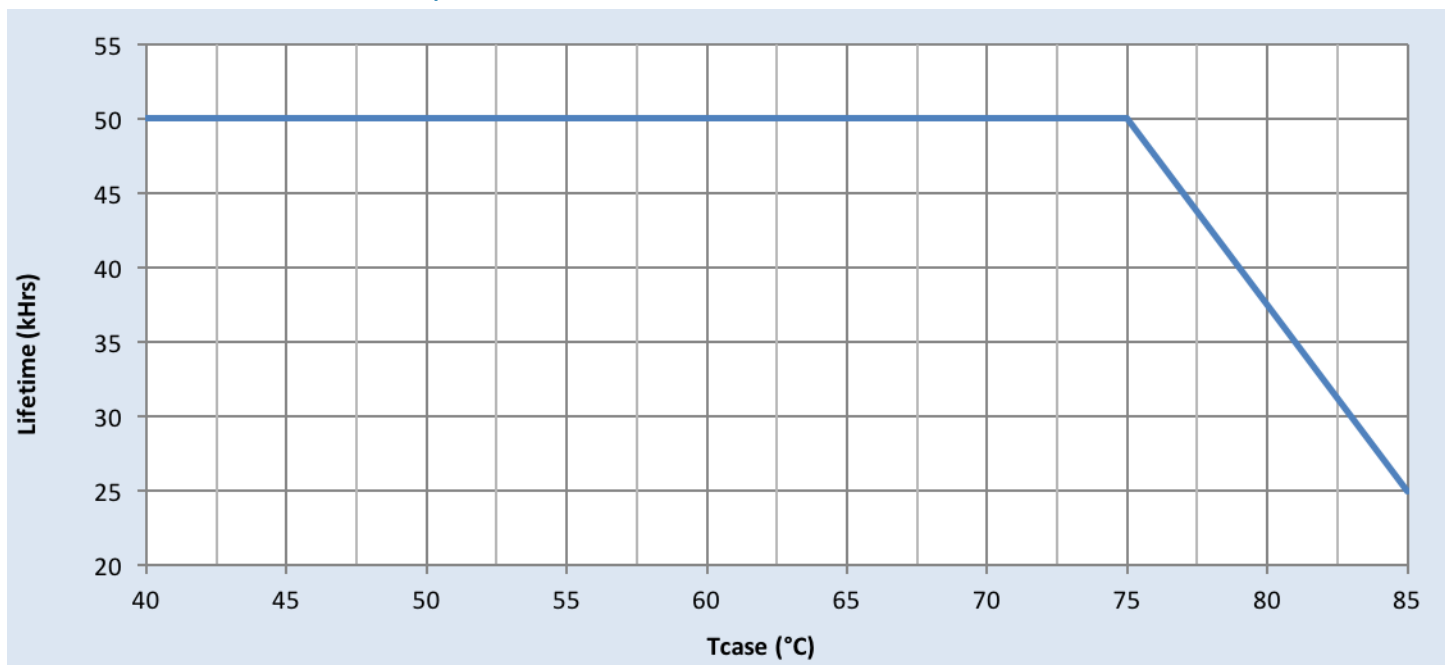
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## Output Current Vs. Driver Case Temperature



## Driver Lifetime Vs. Driver Case Temperature



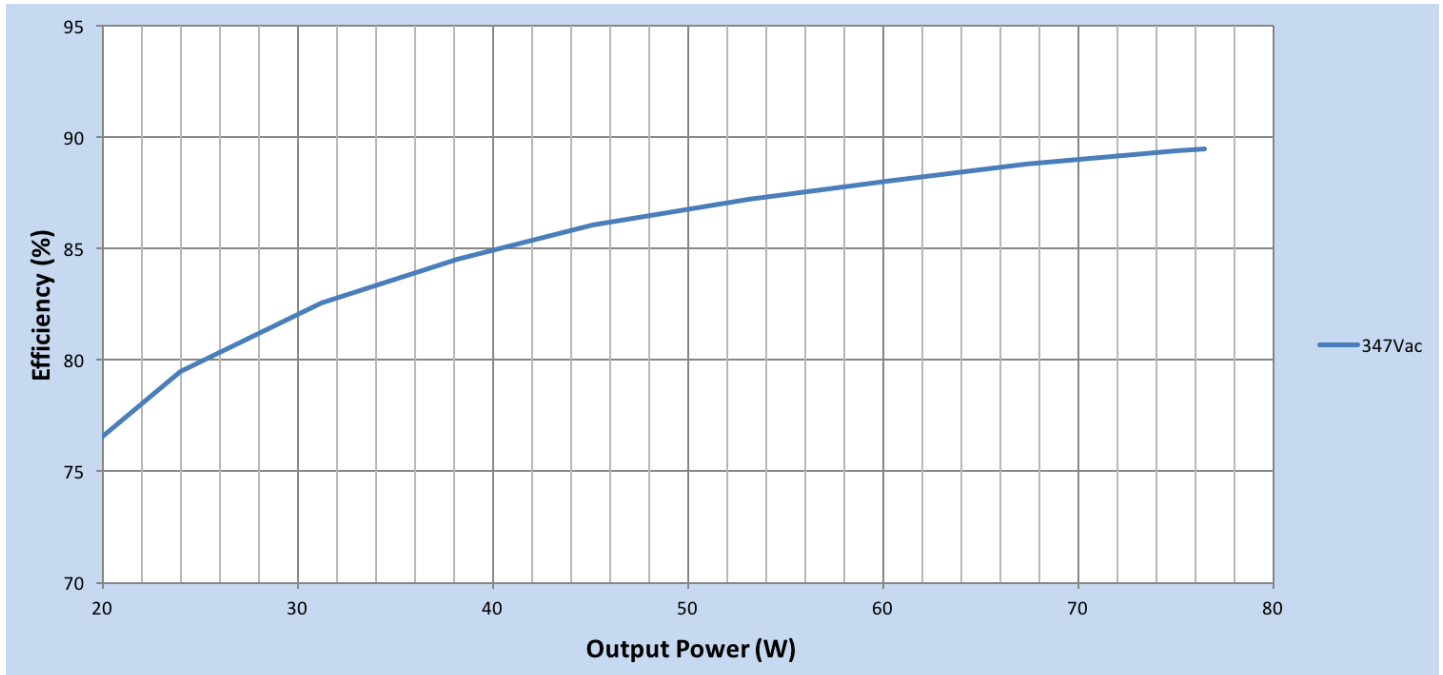
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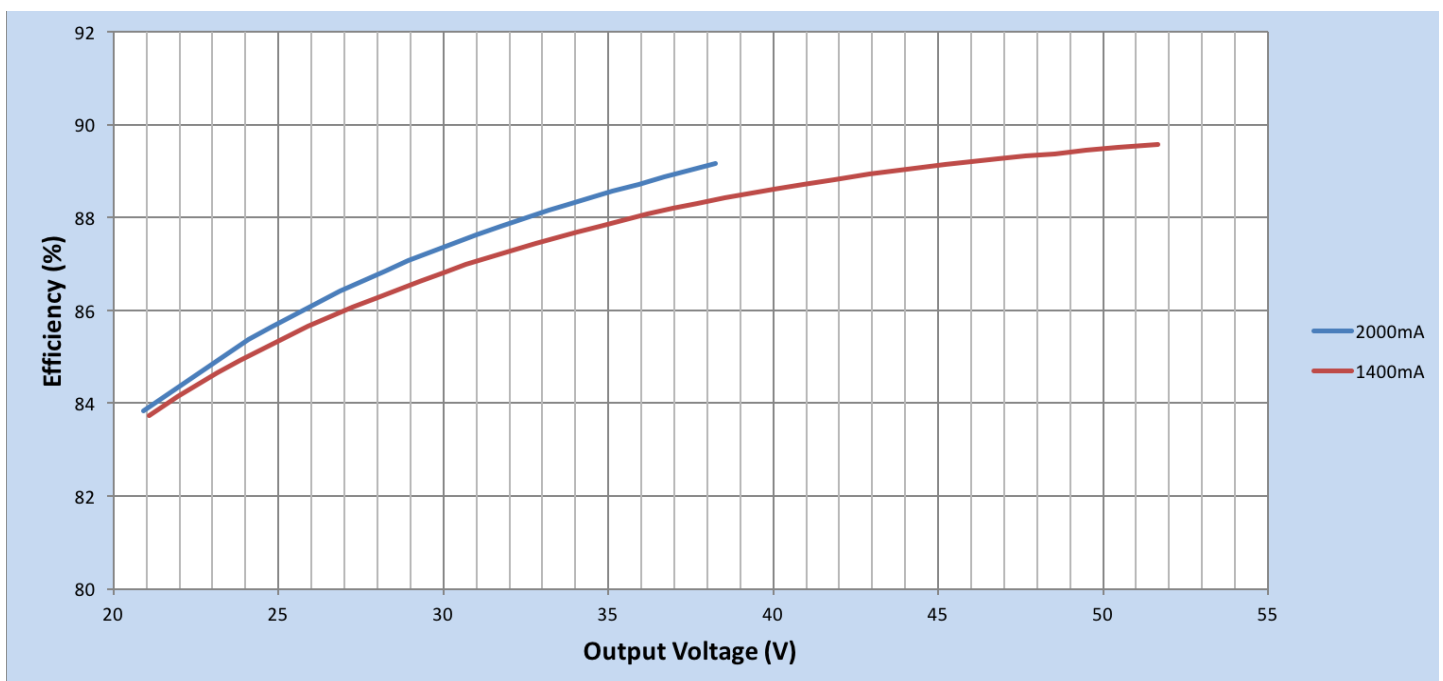
## Performance Characteristics

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 Power



### Efficiency Vs. Output Voltage



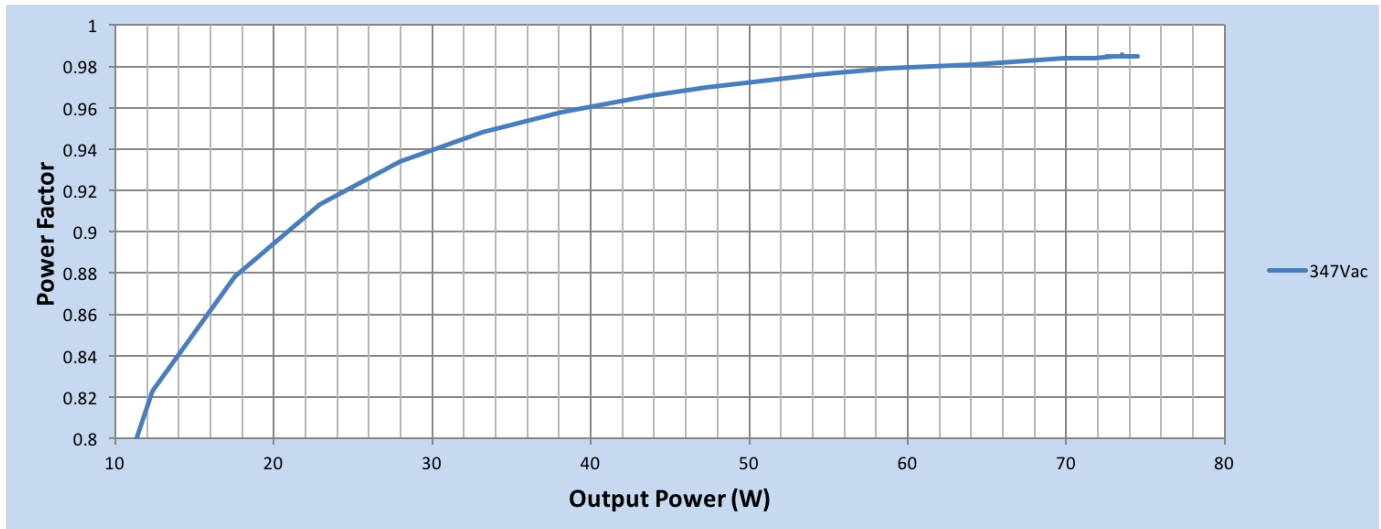
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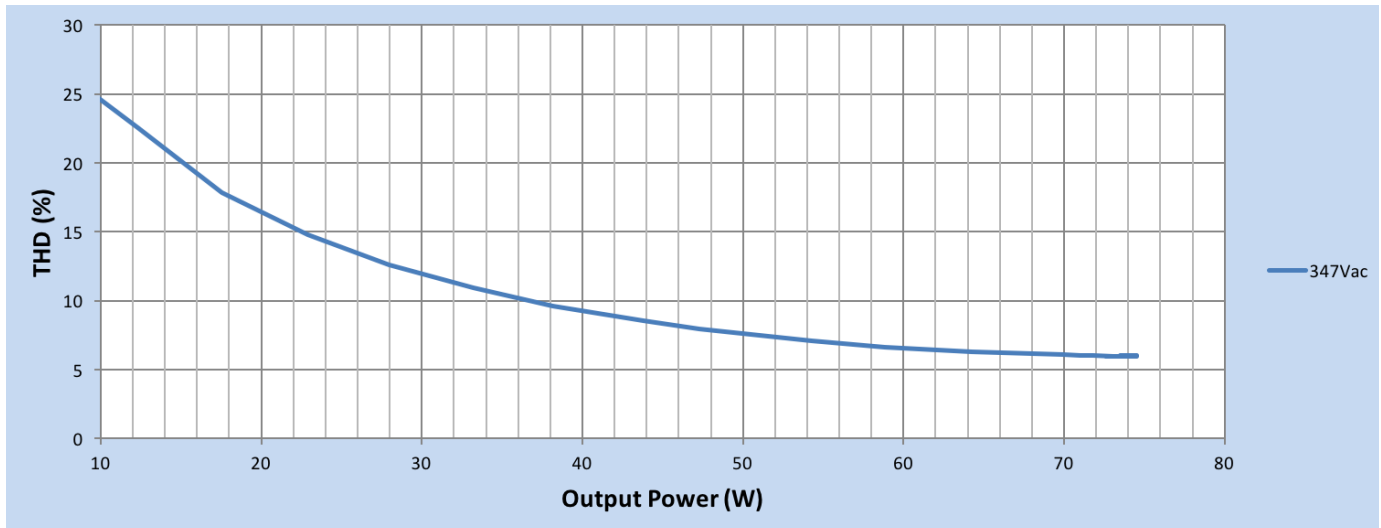
## Performance Characteristics

Based on measurements on a typical sample at 75°C T case. The accuracy of the measurements is within the tolerance of the measurement instruments.

### Power Factor Vs. Output Power



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

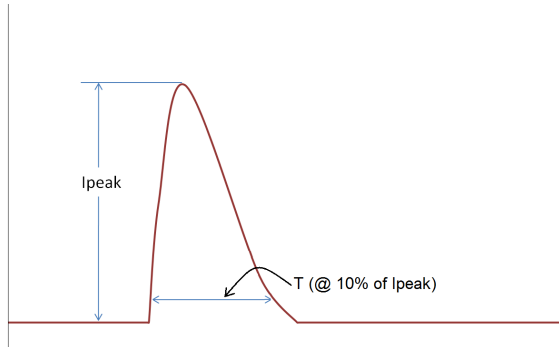




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## Inrush Current Info



$V_{in}$	$I_{peak}$	T (@ 10% of $I_{peak}$ )
347 Vrms	40A	200 $\mu$ 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)
100kHz Ring Wave (w/t 30 $\Omega$ )	2.5KV	2.5KV

## Isolation

Isolation	Input	Output	0–10V	Enclosure
Input	–	2xU+1kV	2.5kV	2xU+1kV
Output	2xU+1kV	–	2.5kV	500V
0–10V (Class 2)	2.5kV	2.5kV	–	500V
Enclosure	2xU+1kV	500V	500V	–

U = Max. input voltage

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