



### Specifications

Input Voltage (Vac)	Output Power (W)	Output Voltage Range (V)	Output Current (A)	Efficiency@ Max Load and 70°C Case	Max Case Temp. (°C)	Input Current (Arms)	Max. Input Power (W)	Inrush Current (Apk/ 50%-µs)	THD @ Max Load (%)	Power Factor @ Max Load	Surge Protection Common/ Diff (KV)	Weight (Lbs/ kgs)	Envir. Protection Rating	Driver Type
347	75	21 - 42 Class 2 Output	1.05	88	80°C	0.25	87	52 / 110	<10%	>0.95	4/4	2.1/0.95	UL damp and dry	Constant Current
480				89		0.19		73 / 120	<15%					

### Features

- High drive current
- Isolated 0-10V dimming
- New housing with increased thermal capability

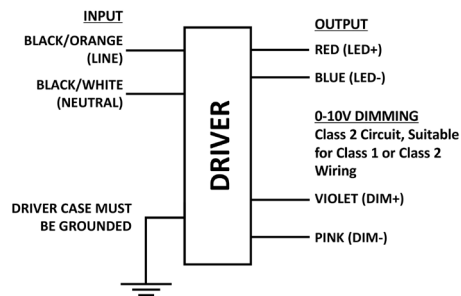
### Benefits

- Enables higher lumen per dollar fixture designs
- Helps to maximize energy savings and allows application specific light levels
- Allows luminaire designs for use in higher ambient environments

### Dimensions

	in.	mm
Case Length	8.3	211.0
Case Width	2.3	58.6
Case Height	1.48	37.6
Mounting Length	8.84	224.6
Overall Length	9.47	240.5

### Wire Diagram



### Product Data

Input and output use lead- wires.

Lead-wires are 18AWG 105C/600V solid copper per UL1452.

Lead Length outside enclosure: 270mm (±30mm) on Input & Output wires, 220mm (±30mm) on dimming wires.

Dimming	Dimming Range	Minimum Output Current (A)	Other Comments
0-10V Analog Class 1 and 2 Wiring	10% - 100%	0.105	Dimming source current: 150 µA

### Warning

- Install in accordance with national and local electrical codes.
- The field-wiring leads or push-in terminals shall be fully enclosed.

# Xitanium XH075C105V070CNF1

75W 1.05A 0-10V HCN-F

## Electrical Specifications

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

<b>Ordering Information</b>	
Order code	XH075C105V070CNF1
Full product code	XH075C105V070CNF1M (Mid-Pack, 10pcs/Box)
Full product name	XITANIUM 75W 1.05A 0-10V HCN-F
<b>Input Information</b>	
Line Voltage	347-480Vac_rms
Line Current	0.25A @ 347V, 0.19A @ 480V
Line Frequency	50/60Hz
Min. Mains voltage operational	312 V [min]
Max. Mains voltage operational	528V [max]
THD (total)	Refer to graph
Power Factor (PF)	Refer to graph
Inrush Current	Per NEMA 410
Lightning Surge Protection	Refer to table below
<b>Output Information</b>	
Output voltage range	24V to 71Vdc
Maximum open circuit voltage	82V
Output Current Ripple (ripple = peak to average / average)	15% max @ max lout Low frequency ( $\leq 120$ Hz) content <5%
Protections	Short Circuit and Open Circuit Protection for LED + and LED-
Ambient Temp Range	-40°C to +55°C
Max Case Temperature (Tcase)	80°C
<b>Features</b>	
Interfaces	0-10V Dimming
AOC (Adjustable Output Current)	N/A
MTP (Module Temperature Protection)	N/A
0-10V Dimming Specifications	150 $\mu$ A source current from driver, See dim curve for detail.
<b>Environment &amp; Approbation</b>	
Environmental Protection Rating	UL damp and dry
Agency Approbations	UL879, UL1012, UL935, cUL
Electromagnetic Compliance	FCC Title 47 Part 15 Class A
Isolation	Refer to table
Audible noise	<24dB Class A

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### 0-10V Dimming Curve:

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

LED Current Tolerance at 1050mA ≤ 5% over temperature and component variations and ≤ 10% at any dim level.

Minimum Dim Level: 10% of Iout (minimum 105mA)

Guaranteed Shutdown driver with Vdim>14.5V

Typ. sink current: 3mA (4mA Max) at 16V dim

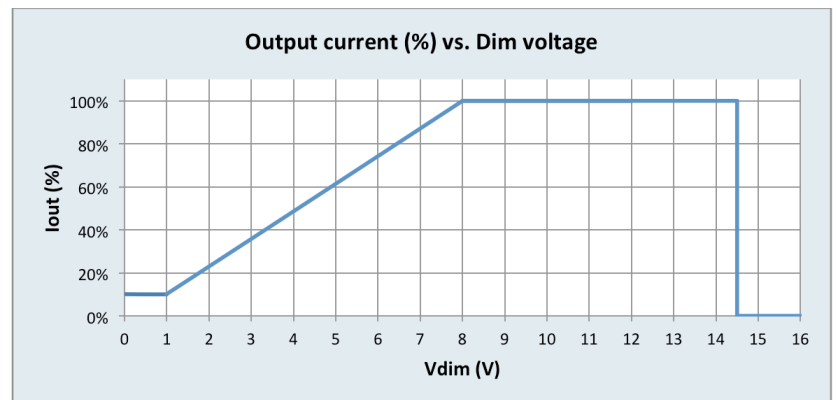
Guaranteed no shutdown driver with Vdim<12V

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

For compatibility with other dimmers please contact the dimmer manufacturer.



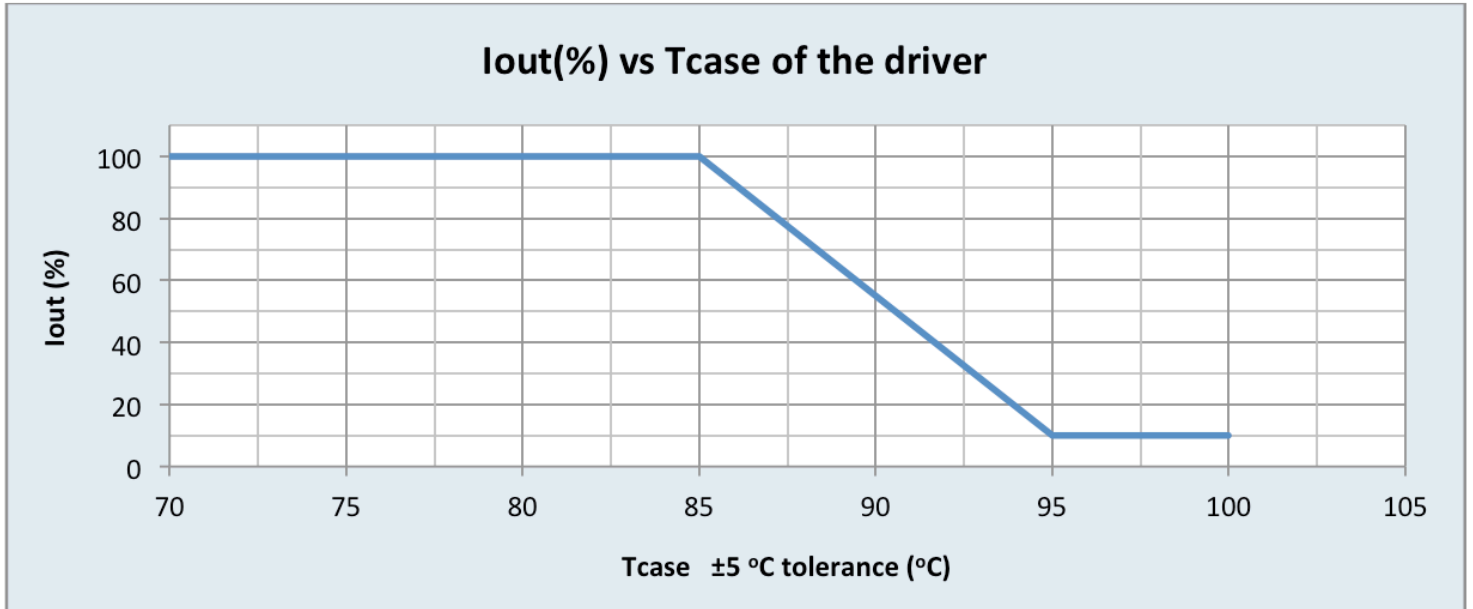
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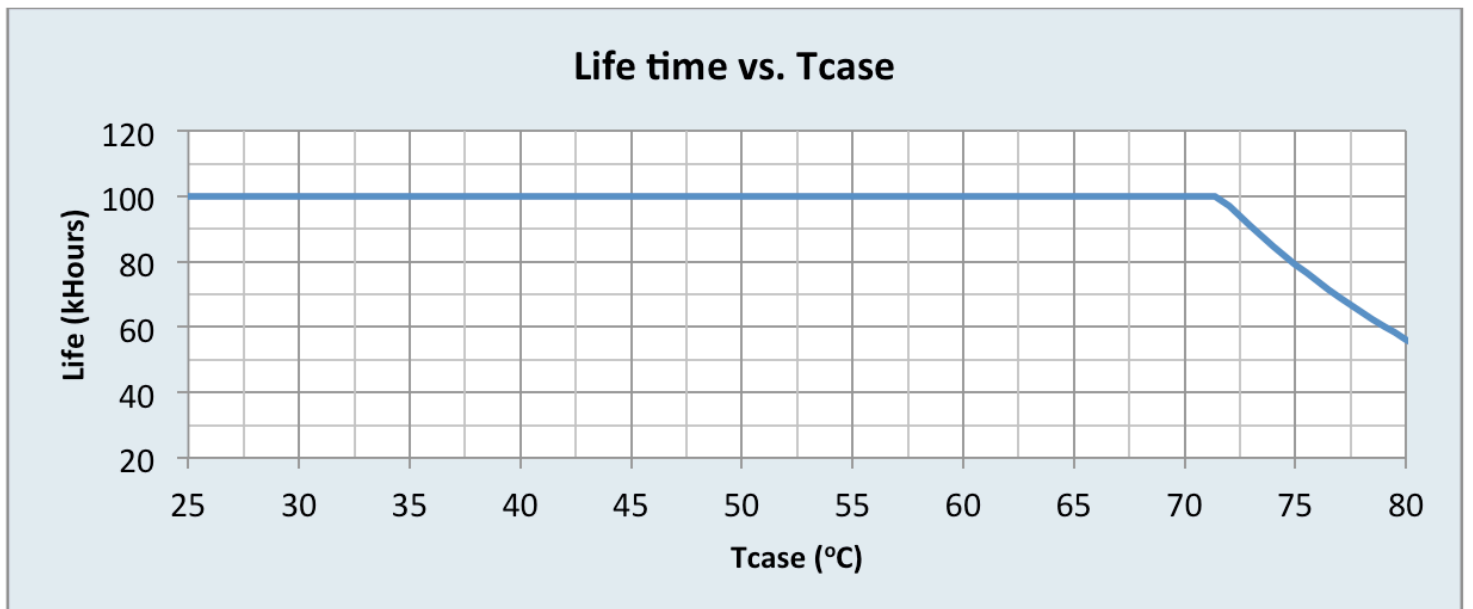
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### Iout vs. Tcase of Driver:



### Lifetime vs. Tcase of Driver:

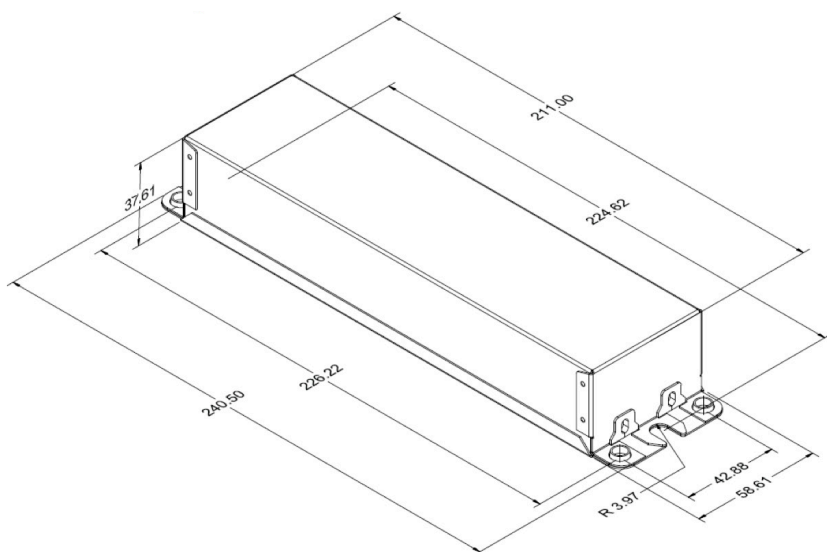


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## Mechanical Specifications

### Mechanical Drawing:



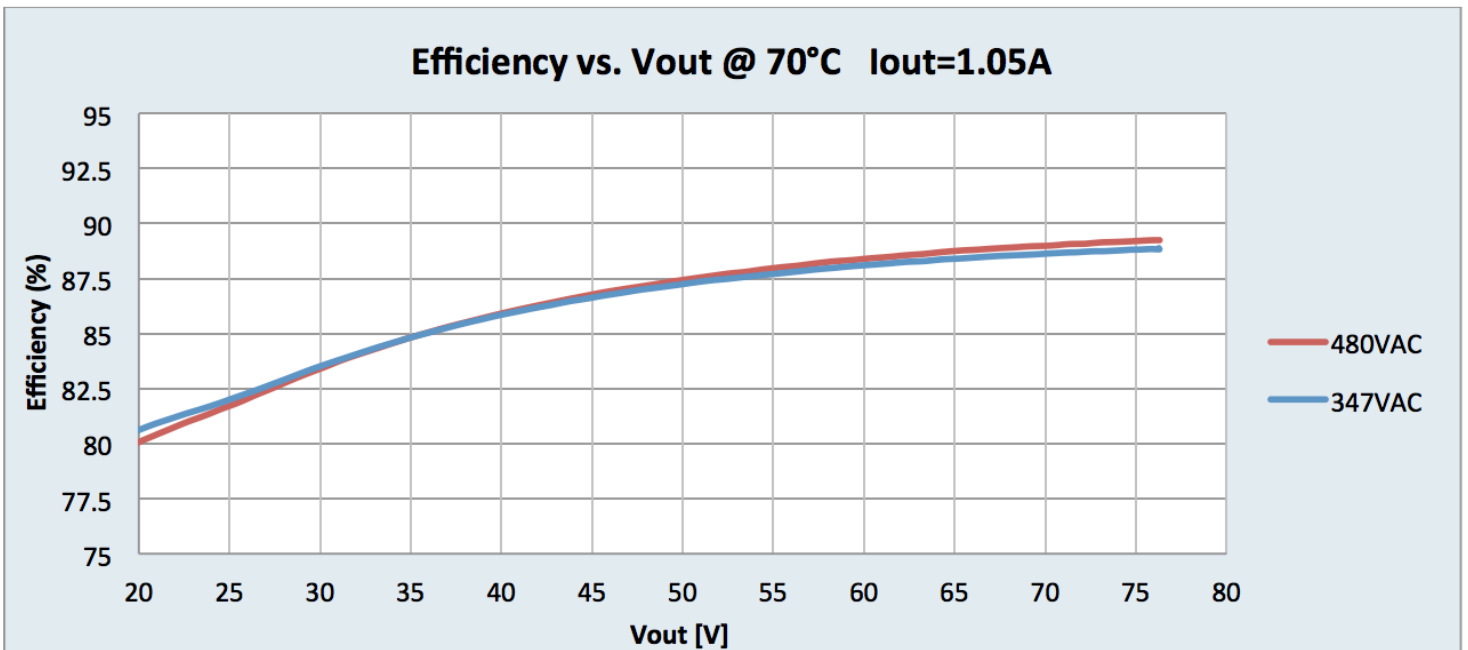
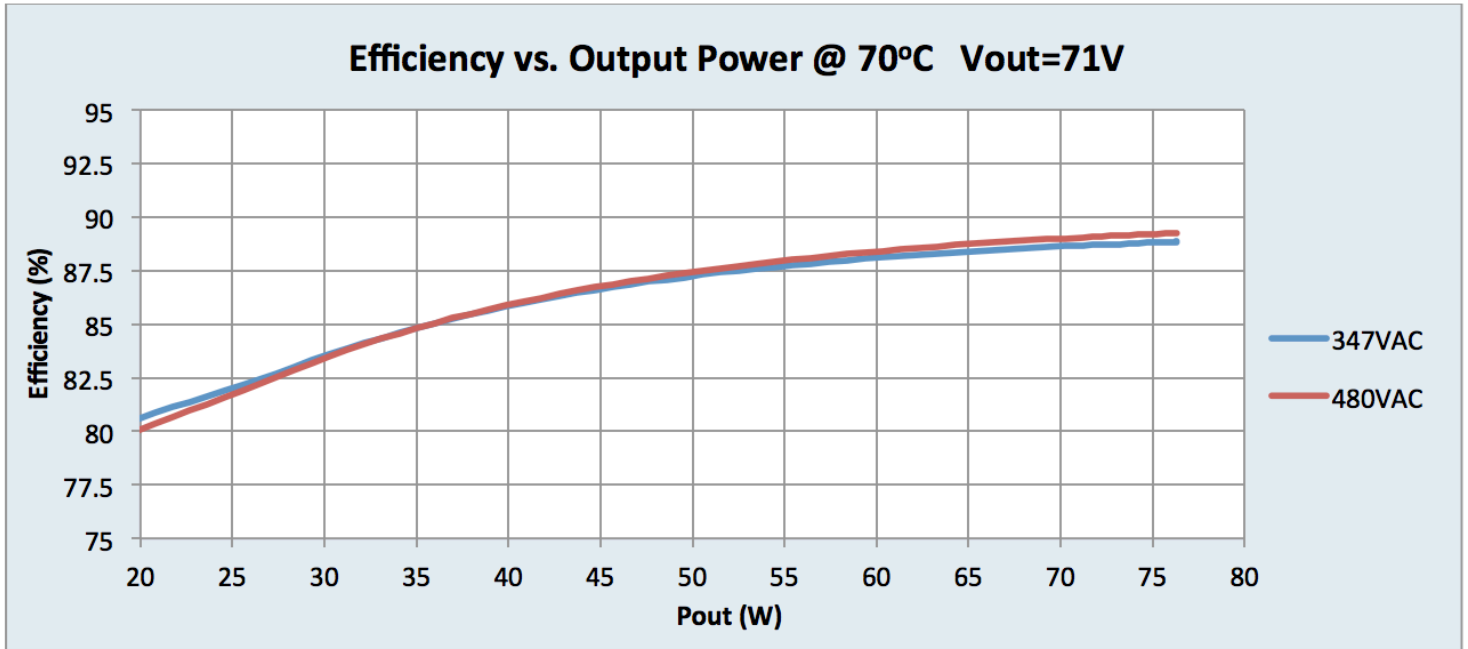
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## Performance Characteristics

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.



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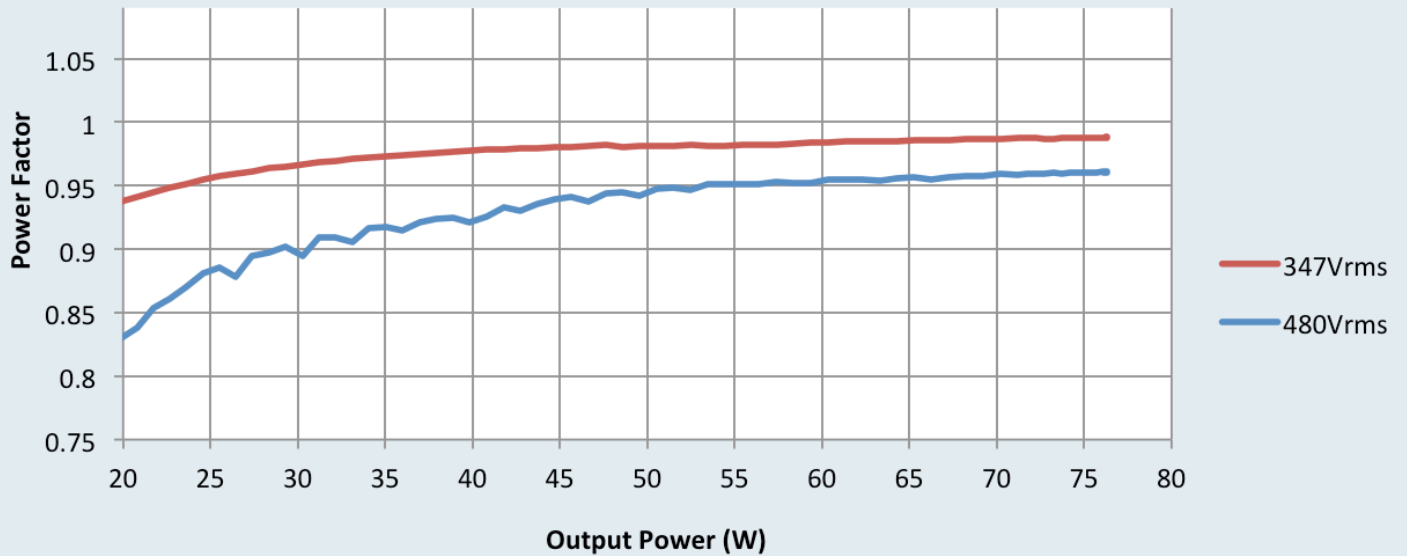
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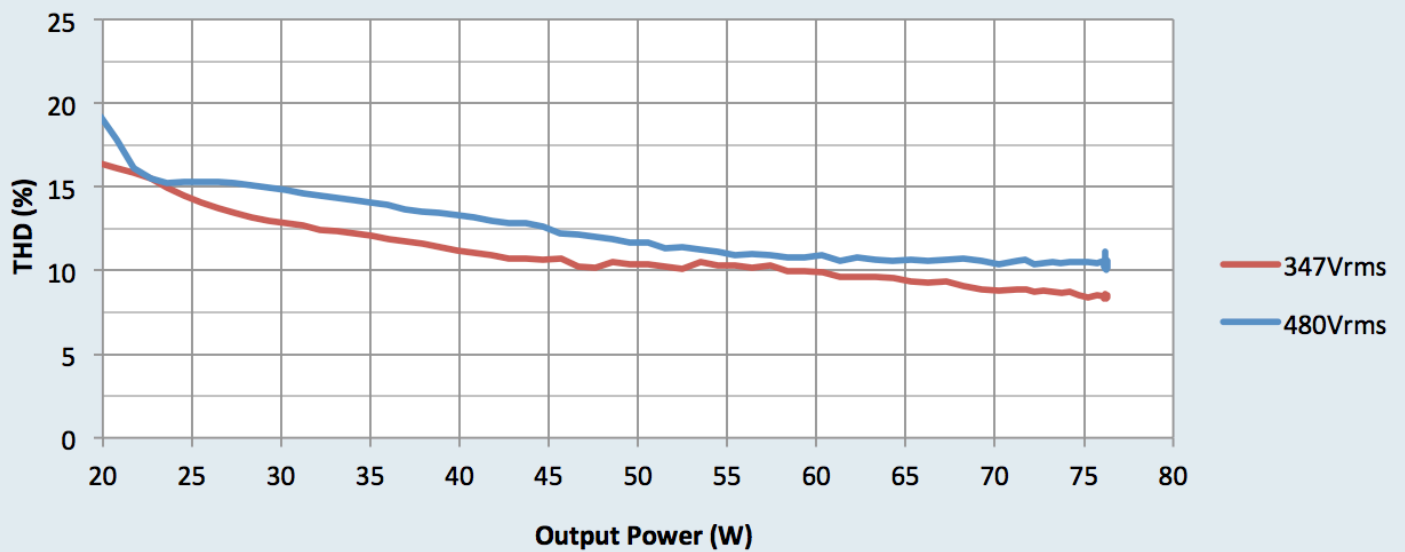
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### Power Factor vs. Output Power @ 70°C



### THD vs Output Power @ 70°C



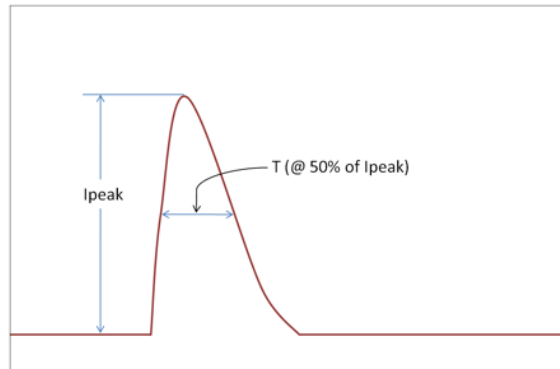
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75W 1.05A 0-10V HCN-F

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### Inrush Current Info:



Vin	Ipeak	T (@ 50% of Ipeak)
347 Vrms	52 A	110 $\mu$ s
480 Vrms	73 A	120 $\mu$ 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 $\Omega$ )	6kV	6kV
1.2/50 $\mu$ s - 8/20 $\mu$ s Combination Wave (w/t 2 $\Omega$ )	4kV	4kV

## Application Notes

### Isolation:

Isolation	Input	Output	0-10V (Class 1 & 2)	Enclosure
Input	Not applicable	2xU+1KV	2.5KVac	2xU+1KV
Output	2xU+1KV	Not applicable	2.5KVac	2xU+1KV
0-10V (Class 1 & 2)	2.5KVac	2.5KVac	Not applicable	2xU+1KV
Enclosure	2xU+1KV	2xU+1KV	2xU+1KV	Not applicable

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Signify North America Corporation  
400 Crossing Blvd, Suite 600  
Bridgewater, NJ 08807  
Telephone: 855-486-2216

Signify Canada Ltd.  
281 Hillmount Road,  
Markham, ON, Canada L6C 2S3  
Telephone: 800-668-9008

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