



**LED Driver**

**Xitanium**

75W 120-277V 1.05A 0-10V  
XI075C105V070CNY2



Long-lasting and low maintenance, LED-based light sources are an excellent solution for all lighting applications. For optimal performance, these solutions require reliable drivers matching the long lifetime of the LEDs. The Philips Advance Xitanium LED Outdoor Driver portfolio offers a range of products specially designed to operate LED solutions in outdoor applications. These drivers are designed for hard-wired integration into outdoor luminaires for the most rugged applications. They operate to specification under wide temperature and electrical ranges to ensure reliability.

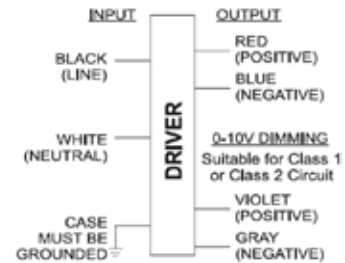
**Specifications**

Input Voltage (Vrms)	Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency@ Max Load and 70°C Case	Max. Case Temp. (°C)	Input Current (Arms)	Max. Input Power (W)	Inrush Current (A <sub>pk</sub> /10%-µs)	THD @ Max. Load	Power Factor @ Max. Load	Surge Protection Common/Diff (KV)	Weight (Lbs/kgs)	Envir. Protection Rating
120	75	32 - 72	1.05	89.5	80	0.70	84	38 / 209	<10%	>0.95	4/4	1.53/0.57	UL Dry & Damp
277				91		0.30		93 / 190	<10%				

**Enclosure**

	In. (mm)
Case Length	5.43 (138.00)
Case Width	2.32 (59.00)
Case Height	1.50 (38.00)
Mounting Length	5.98 (152.00)
Mounting Width	1.69 (42.88)
Overall Length	6.61 (168.00)

**Wiring Diagram**



Input and output use lead-wires.

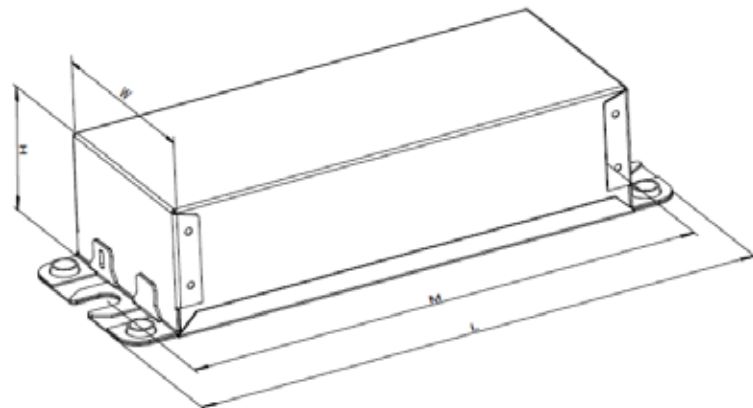
Lead-wires are 18AWG 105C/600V solid copper per UL1452.

Lead Length outside enclosure: 270 mm (±30mm) on input, output and dimming wires.

**UL Conditions of Acceptability:**

Please contact your Philips representative for a copy of the latest UL Conditions of Acceptability (COA).

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 (±3%)



# Xitanium 75W 120-277V 1.05A 0-10V Dimming

## Electrical Specifications

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

### Features

- 50,000+ hour lifetime<sup>1</sup>
- High drive current
- Isolated 0-10V dimming
- New housing with high thermal capability

### Benefits

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

### Application

- Area
- Roadway
- Parking garages
- Floodlights

1. Philips Advance Xitanium LED Drivers are designed and manufactured to engineering standards correlating to an average life expectancy of 50,000 hours of operation at maximum rated case temperature. Minimum 90% survivals based on MTBF modeling.

## Product Data

Order Information	
Order Code	XI075C105V070CNY2M
Full Product Code	XI075C105V070CNY2M (Mid-Pack, 12pcs/Box)
Full Product Name	XITANIUM 75W 1.05A 0-10V Dimming
Line Voltage	120-277Vac_rms
Line Current	0.70A @ 120V, 0.30A @ 277V
Line Frequency	50/60Hz
Min. Mains Voltage Operational	108V
Max. Mains Voltage Operational	305V
THD (total)	Refer to graph
Power Factor (PF)	Refer to graph
Efficiency	Refer to graph
Inrush Current	Per NEMA 410
Lightning Surge Protection	Refer to table
Output Information	
Output Voltage Range	32Vdc to 72Vdc
Maximum Open Circuit Voltage	150V
Output Current (ripple = peak to average / average)	15% max @ max lout and max Vout Low frequency ( $\leq 120$ Hz) content <5%
Protections	Short Circuit and Open Circuit Protection for LED + and LED -
Operating Ambient Temp. Range	-40°C to +55°C
Max Case Temperature (Tcase)	80°C
Features	
Interfaces	0-10V Dimming
0-10V Dimming Specifications	150 $\mu$ A $\pm$ 3% source current from driver. See dim curve for detail.
Environment & Approbation	
Environmental Protection Rating	UL dry and damp
Agency Approbations	UL879, UL1012, UL935, (cRUs/CSA)
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 (±3%) (@ 0<Vdim<8V)

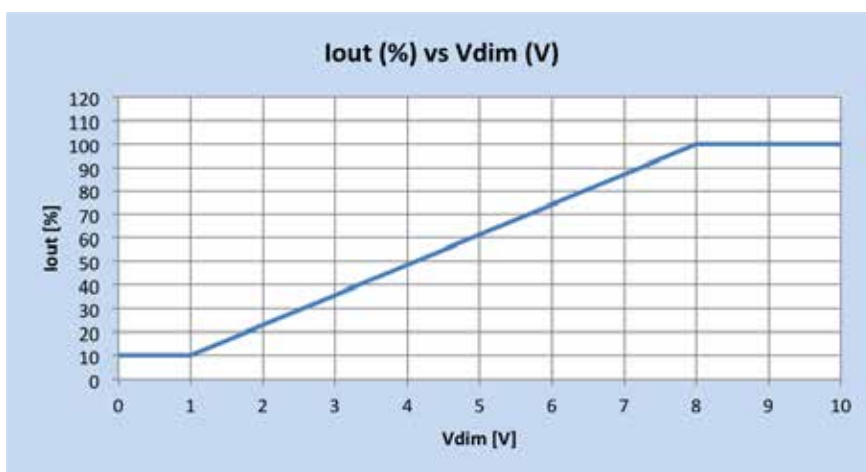
LED Current Tolerance at 1050mA ≤ 5% over temperature and component variations

Minimum Dim Level (nominal): 105 mA

Maximum output voltage on the dimming wires: 12V

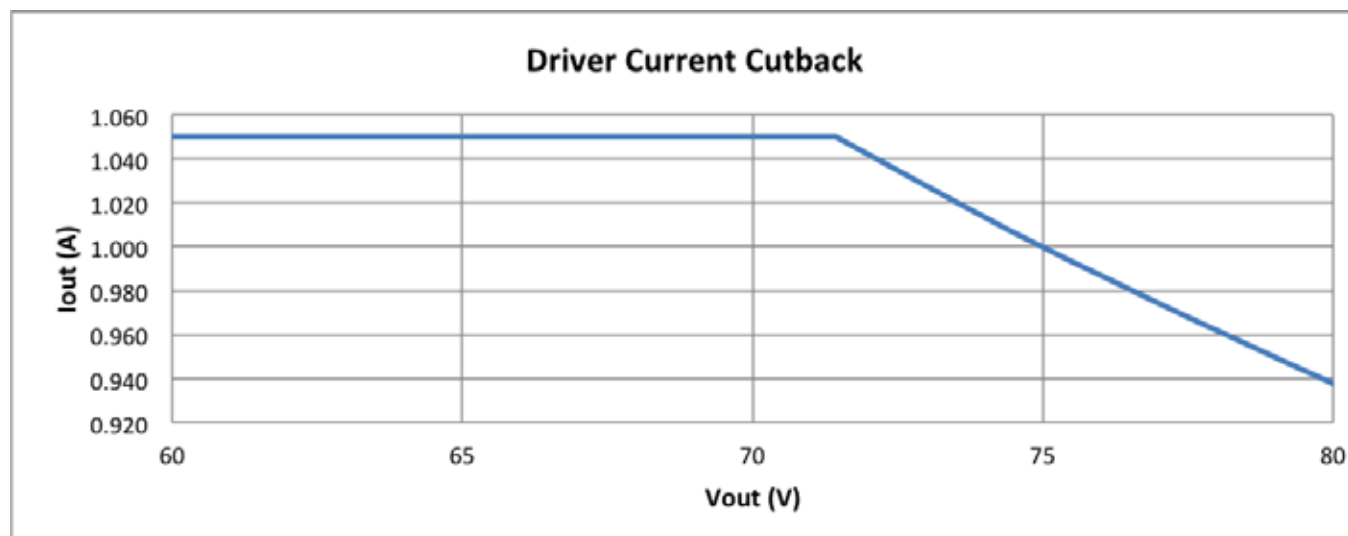
### Approved Dimmer List

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 sthis driver
Leviton	IllumaTech IP7 series
Philips	Sunrise - SR1200ZTUNV



### Driver Current Cutback

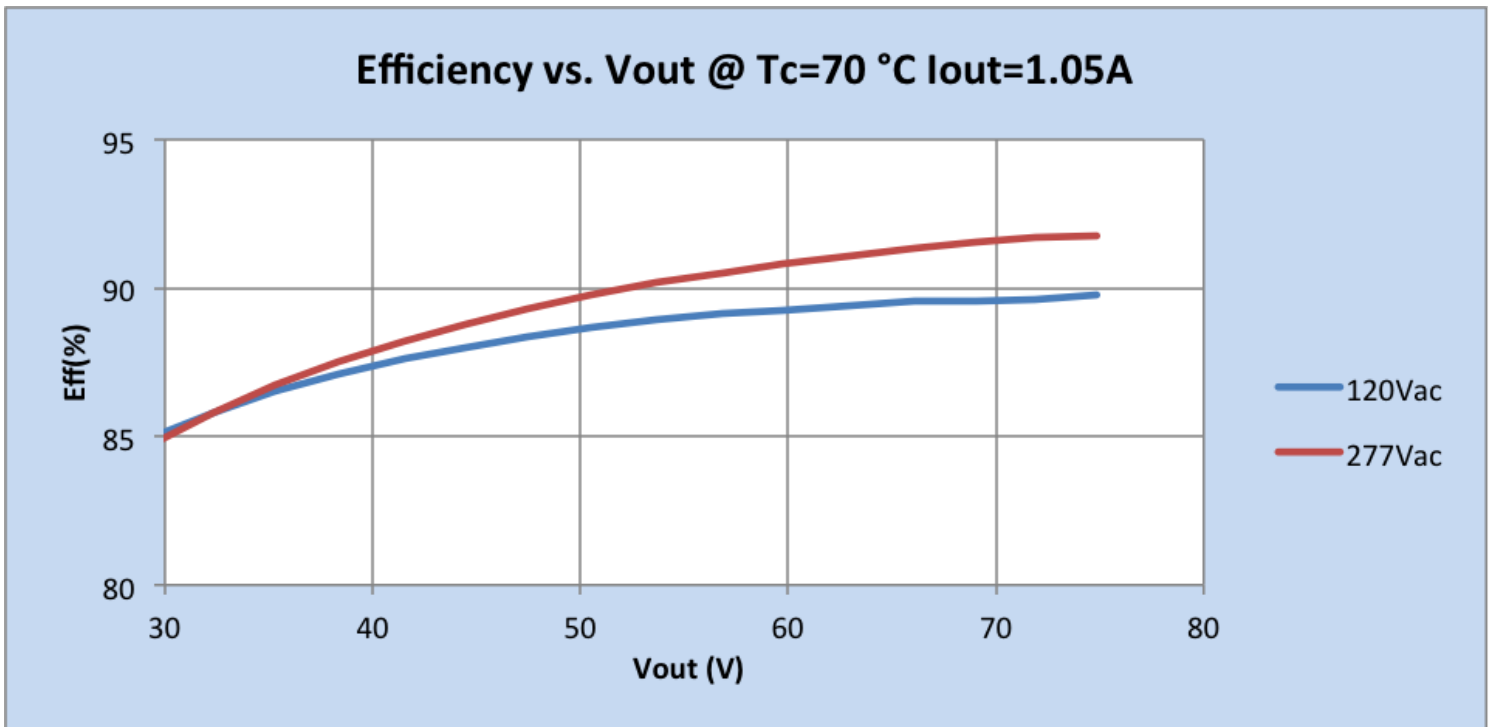
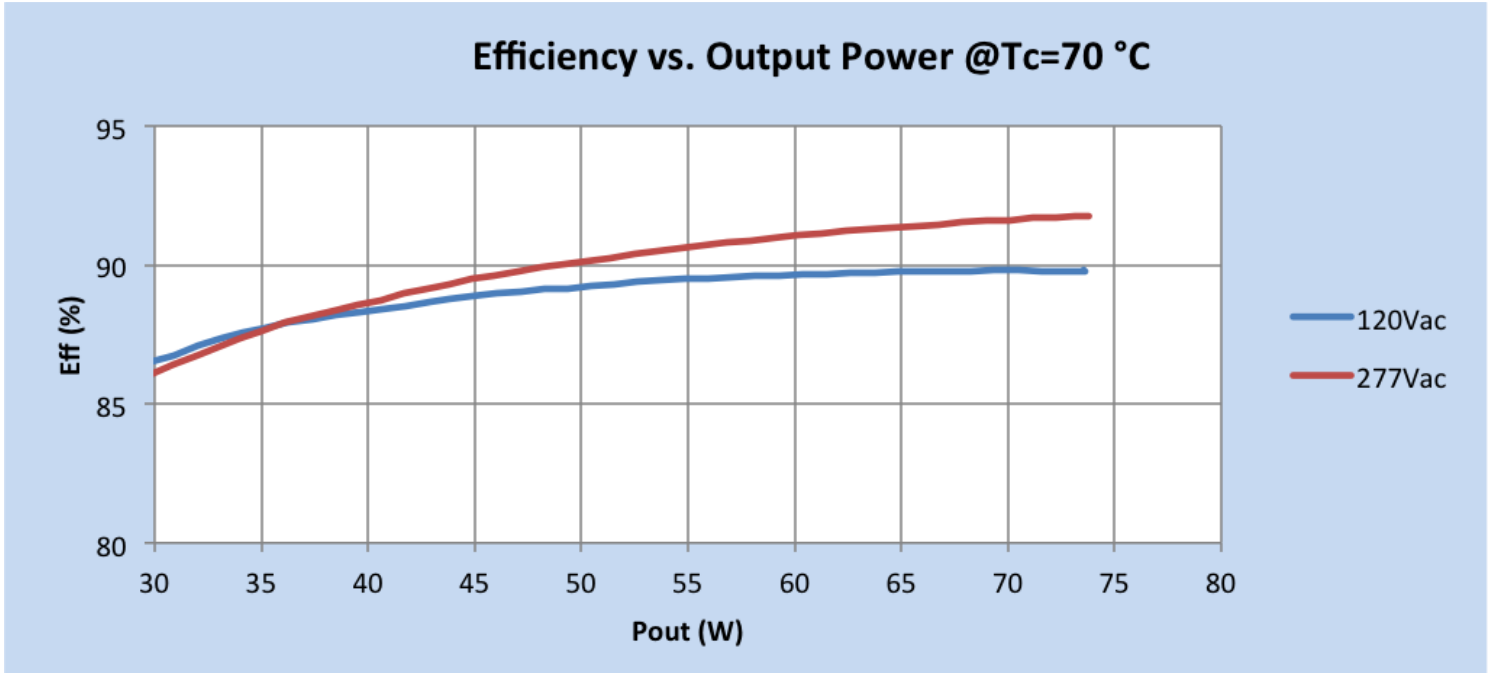
The Driver Current Cutback feature provides for an increased output voltage with a reduced output current during abnormal LED operation, such as cold weather starting.



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## Performance Characteristics

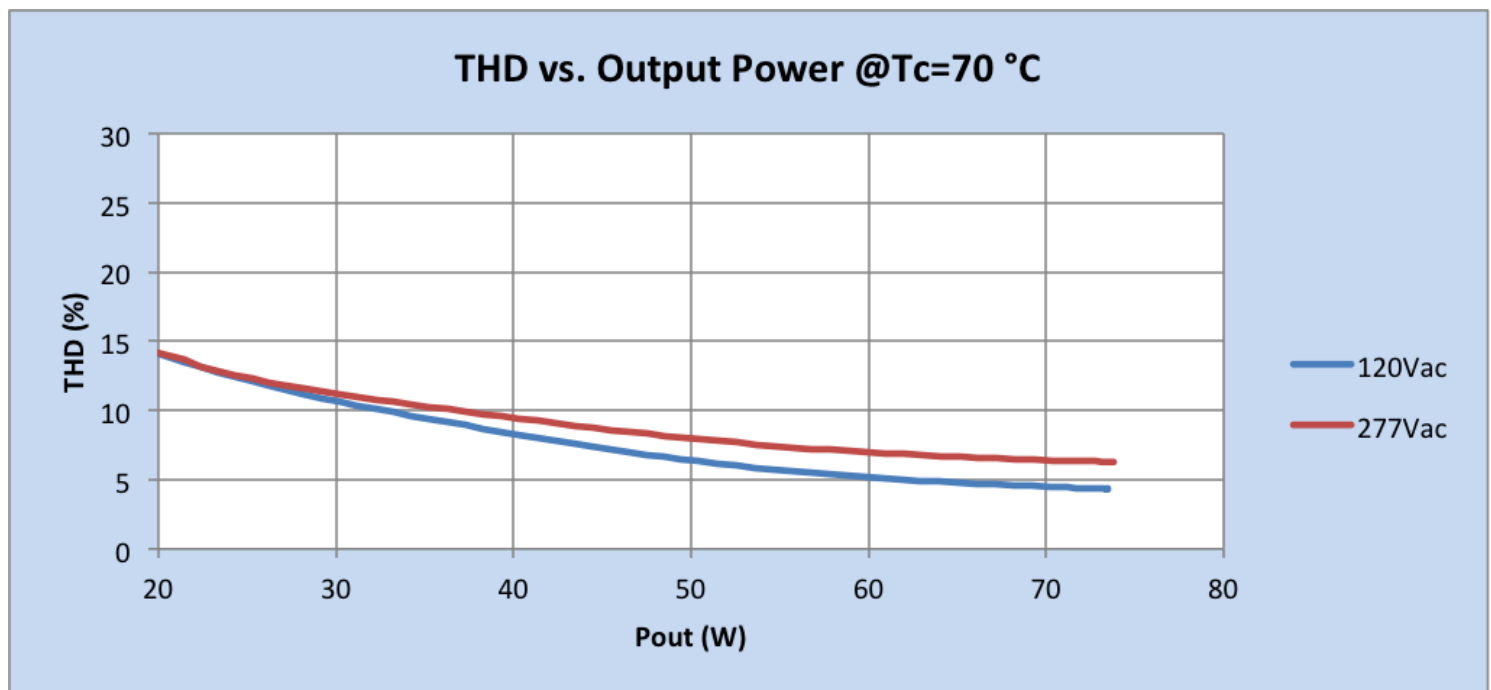
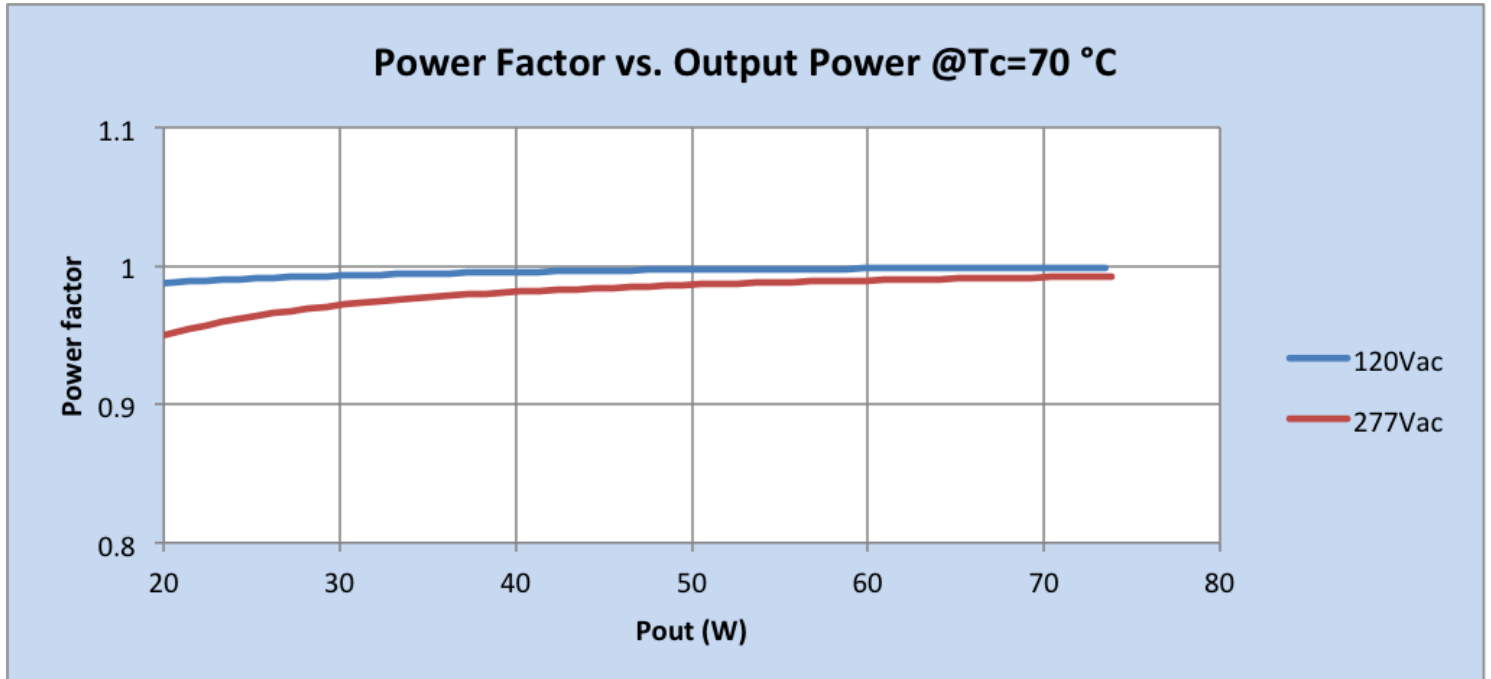
Based on measurements on a typical sample. The accuracy of the measurements is within the tolerance of the measurement instruments. The graphs are meant to be a guideline and not a specification.



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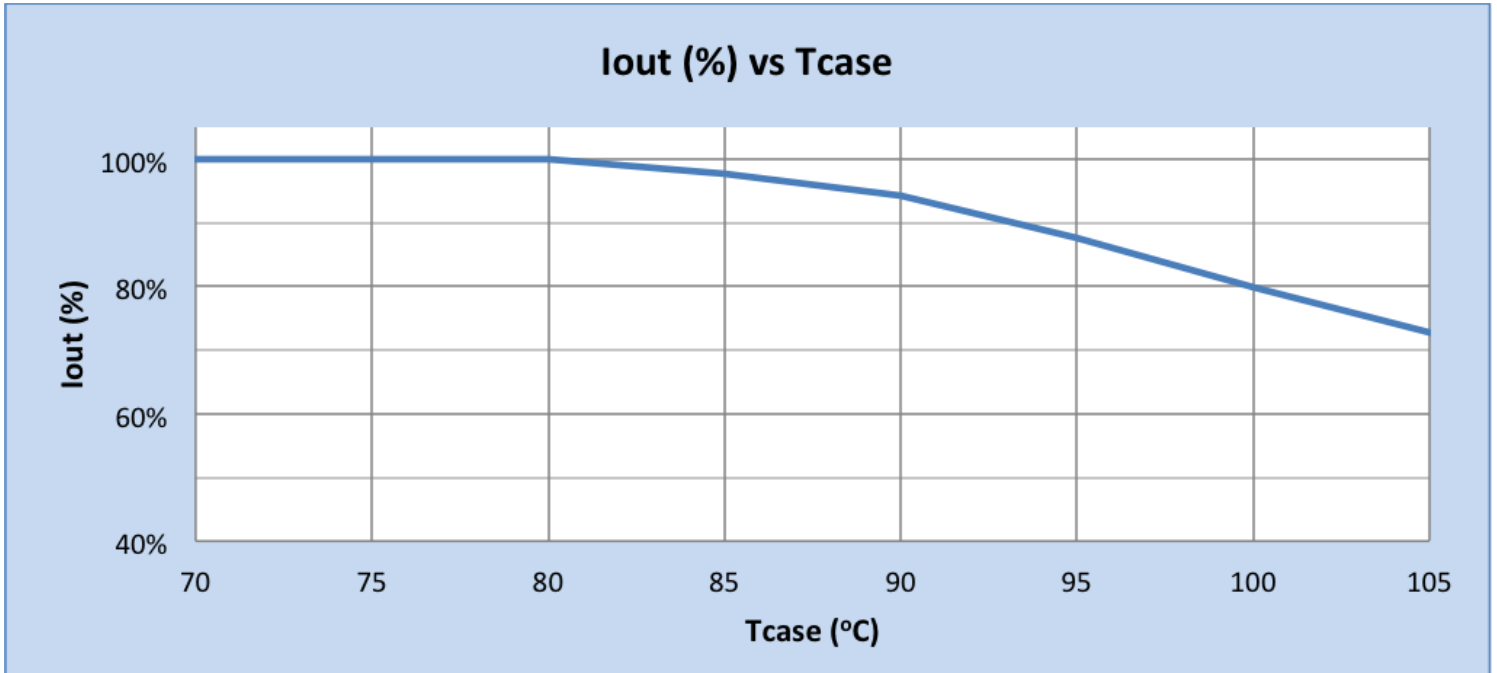


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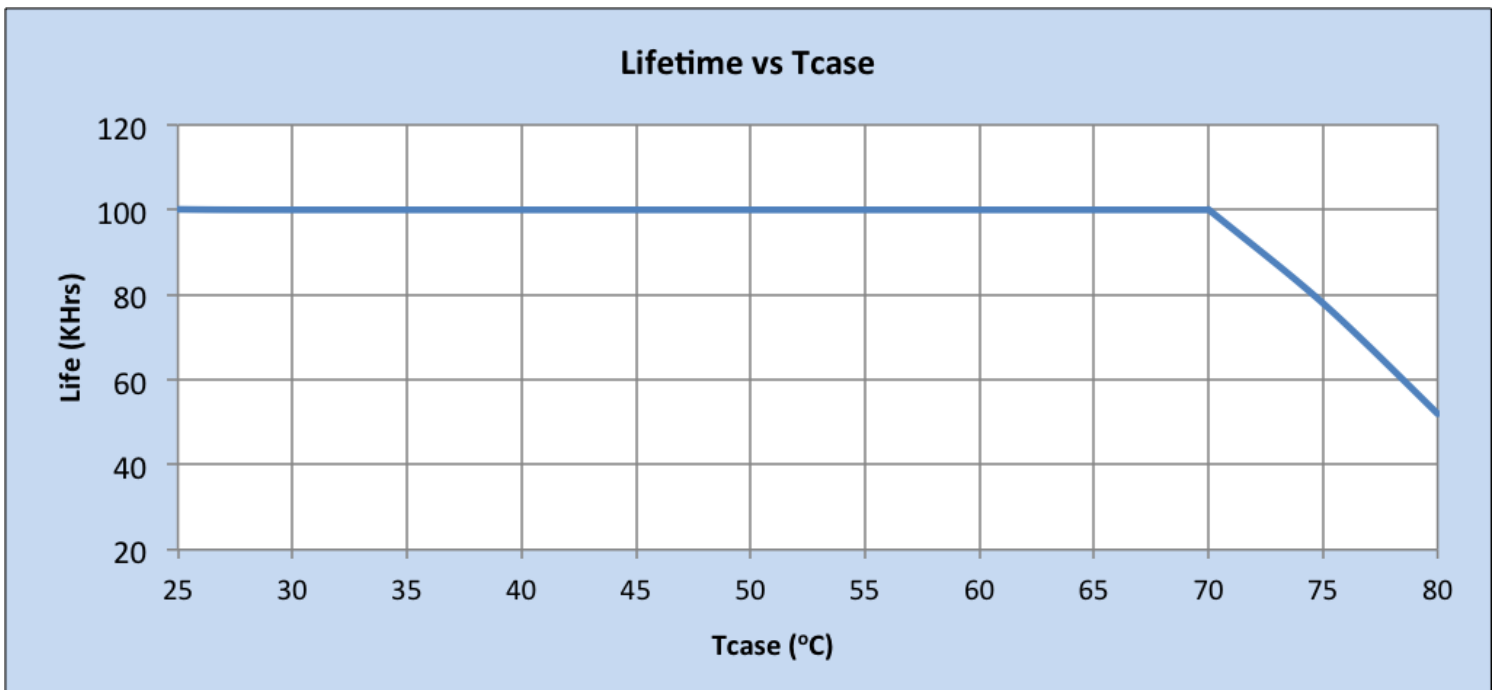
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### Output Current vs. Driver Case Temperature:

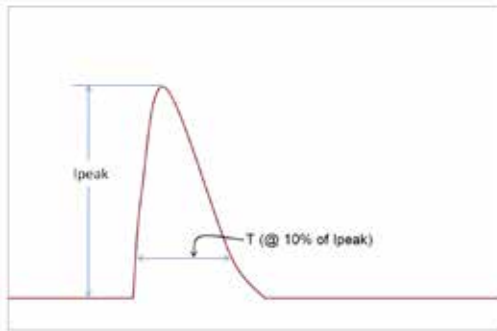


### Driver Lifetime vs. Driver Case Temperature:



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## Inrush Current Info:



Vin	Ipeak	T (@ 10% of Ipeak)
120 Vrms	38A	209µs
277 Vrms	93A	190µs

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)
1.2/50µs Combination Wave (w/t 2Ω)	4kV	4kV

## Isolation:

Isolation	Input	Output	0-10V (Class 1 & 2)	Enclosure
Input	NA	2xU+1kV	2.5KVac	2xU+1kV
Output	2xU+1kV	NA	2.5KVac	2xU+1kV
0-10V (Class 1 & 2)	2.5KVac	2.5KVac	NA	2xU+1kV
Enclosure	2xU+1kV	2xU+1kV	2xU+1kV	NA



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