



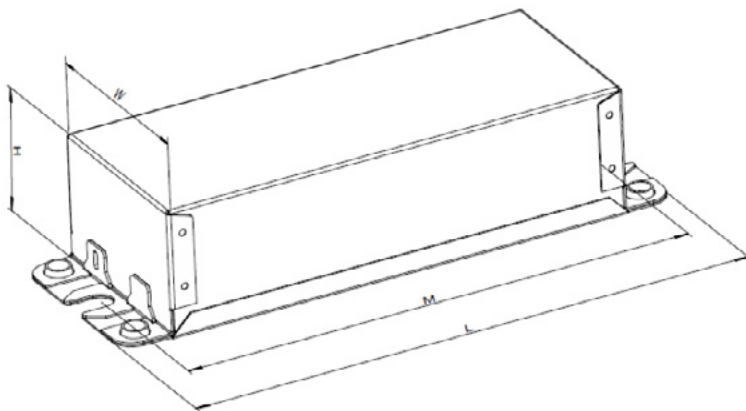
Long-lasting and low maintenance, LED-based light sources are an excellent solution for all lighting applications. For optimal performance, these solutions require reliable drivers matching the long lifetime of the LEDs. **The Advance Xitanium LED Outdoor Driver portfolio** offers a range of products 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 _{pk} /10%-μs) | THD @ Max. Load | Power Factor @ Max. Load | Surge Protection Common/Diff (KV) | Weight (Lbs/kgs) | Envir. Protection Rating | Driver Type |
|----------------------|------------------|--------------------|--------------------|------------------------------------|----------------------|----------------------|----------------------|--|-----------------|--------------------------|-----------------------------------|------------------|--------------------------|------------------|
| 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 | Constant Current |
| 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) |



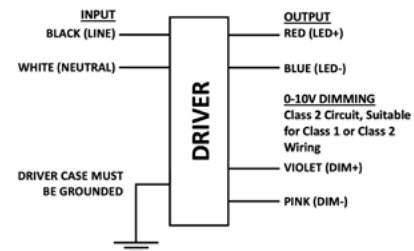
UL Conditions of Acceptability:

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

Warning

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

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.

| 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 XI075C105V070CNY2

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

Electrical Specifications

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

Features

- 50,000+ hour lifetime¹
- 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. 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 Iout and max Vout Low frequency (≤ 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 μ 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) |
| 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)

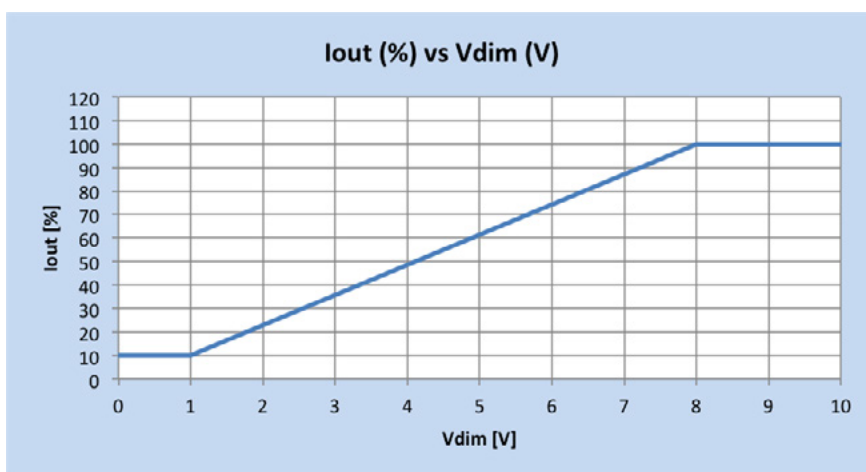
LED Current Tolerance at 1050mA ≤ 5% over temperature and component variations

Minimum Dim Level (nominal): 105 mA

Maximum output voltage on the dimming wires: 12V

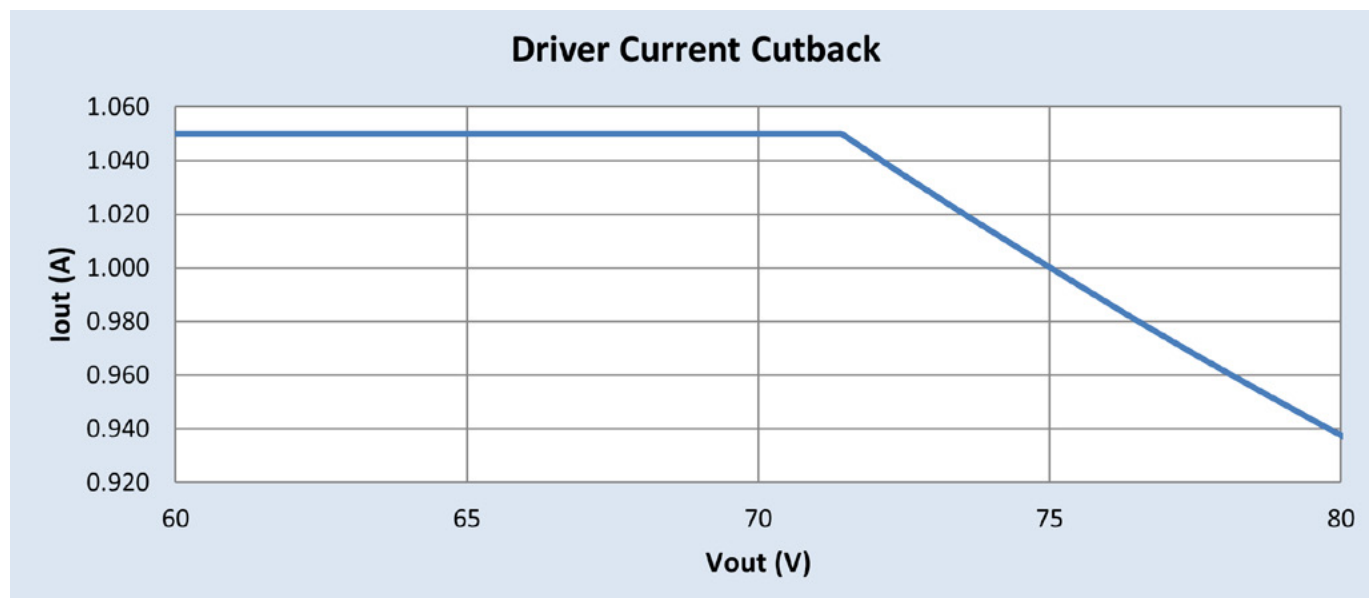
Approved Dimmer List

| Manufacturer | Manufacturer Part Number |
|--------------|--|
| Lutron | Visit www.lutron.com/advance for a list of dimmers (Mark VII) that will work with sthis driver |
| Leviton | IllumaTech IP7 series |
| Advance | 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.

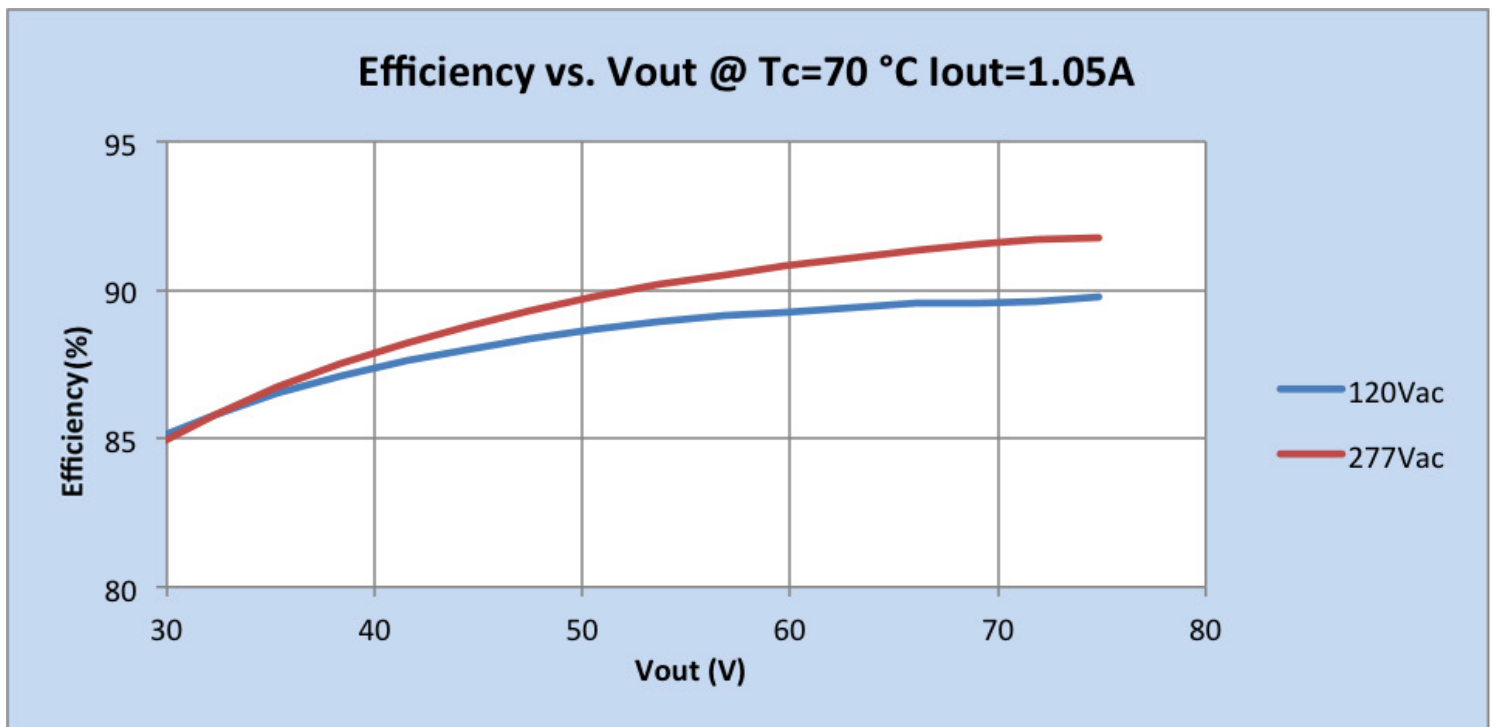
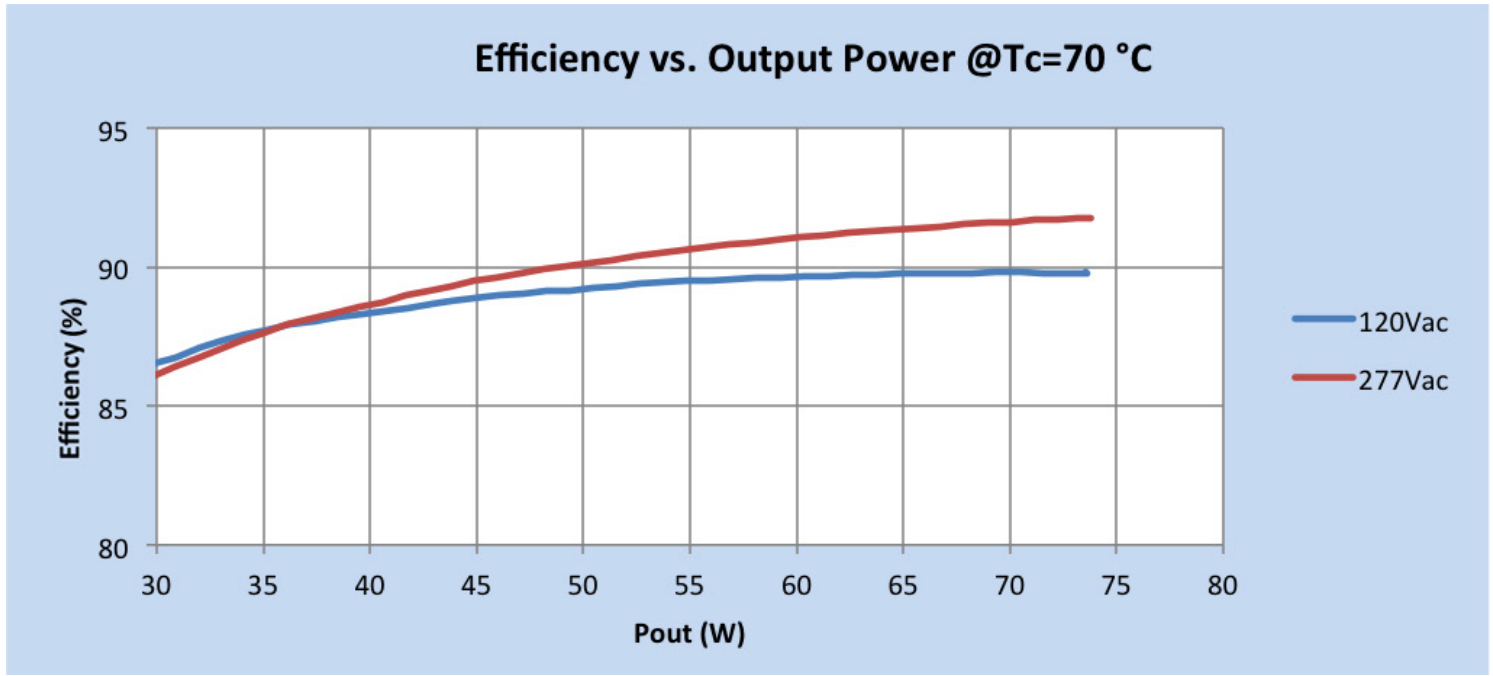


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Performance Characteristics

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.

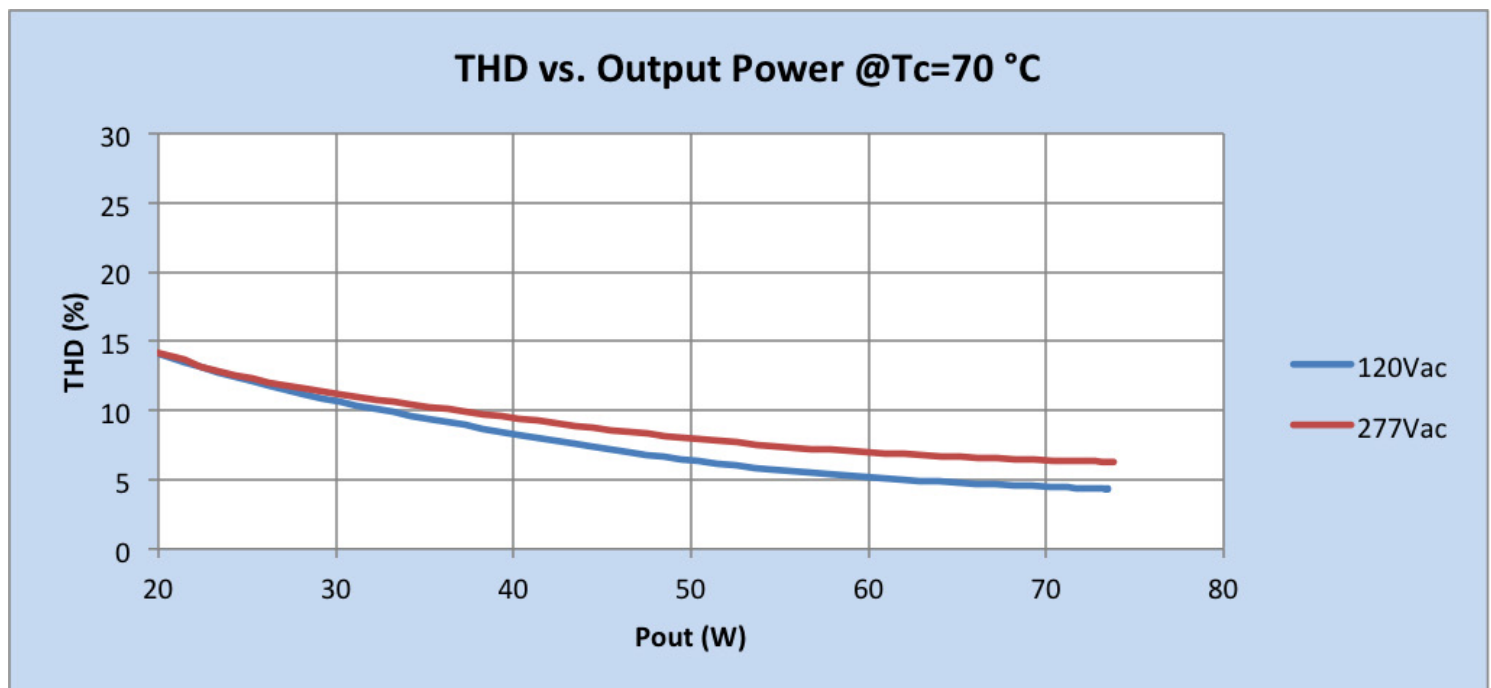
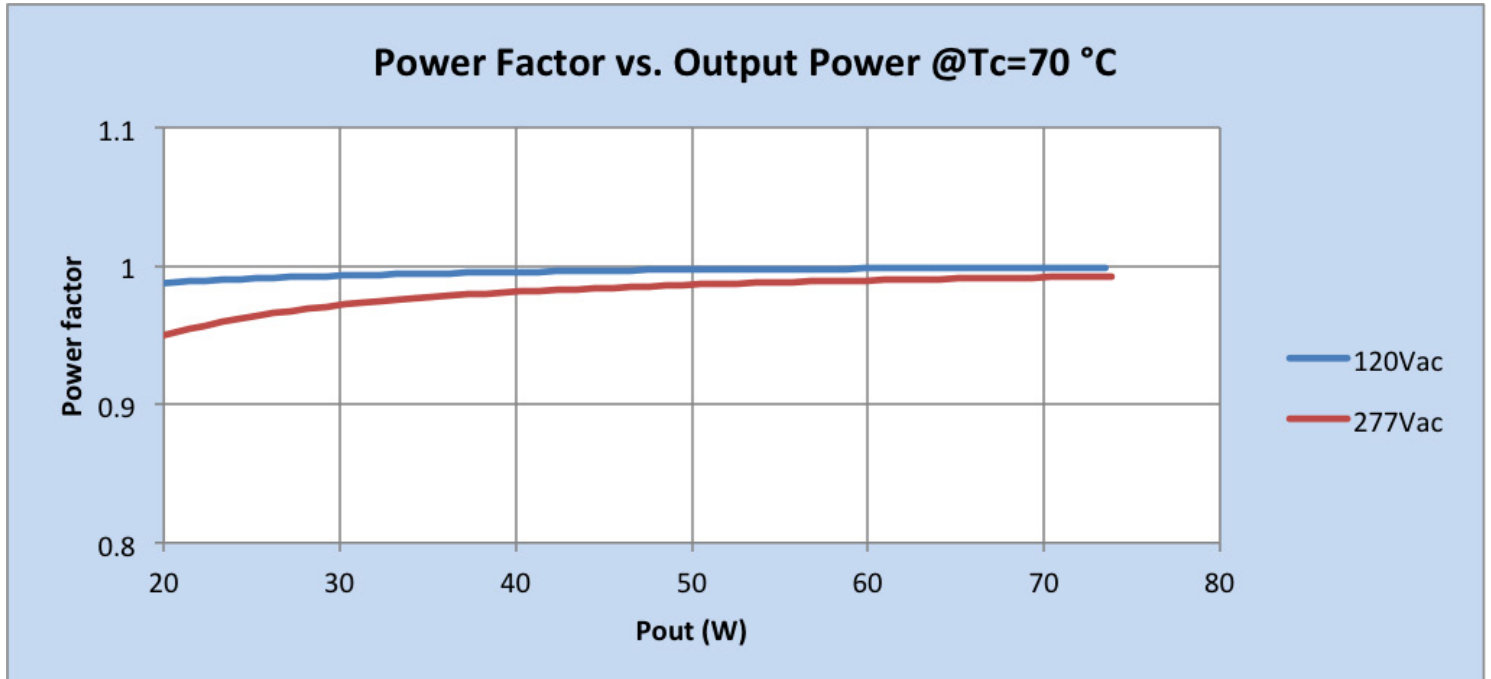


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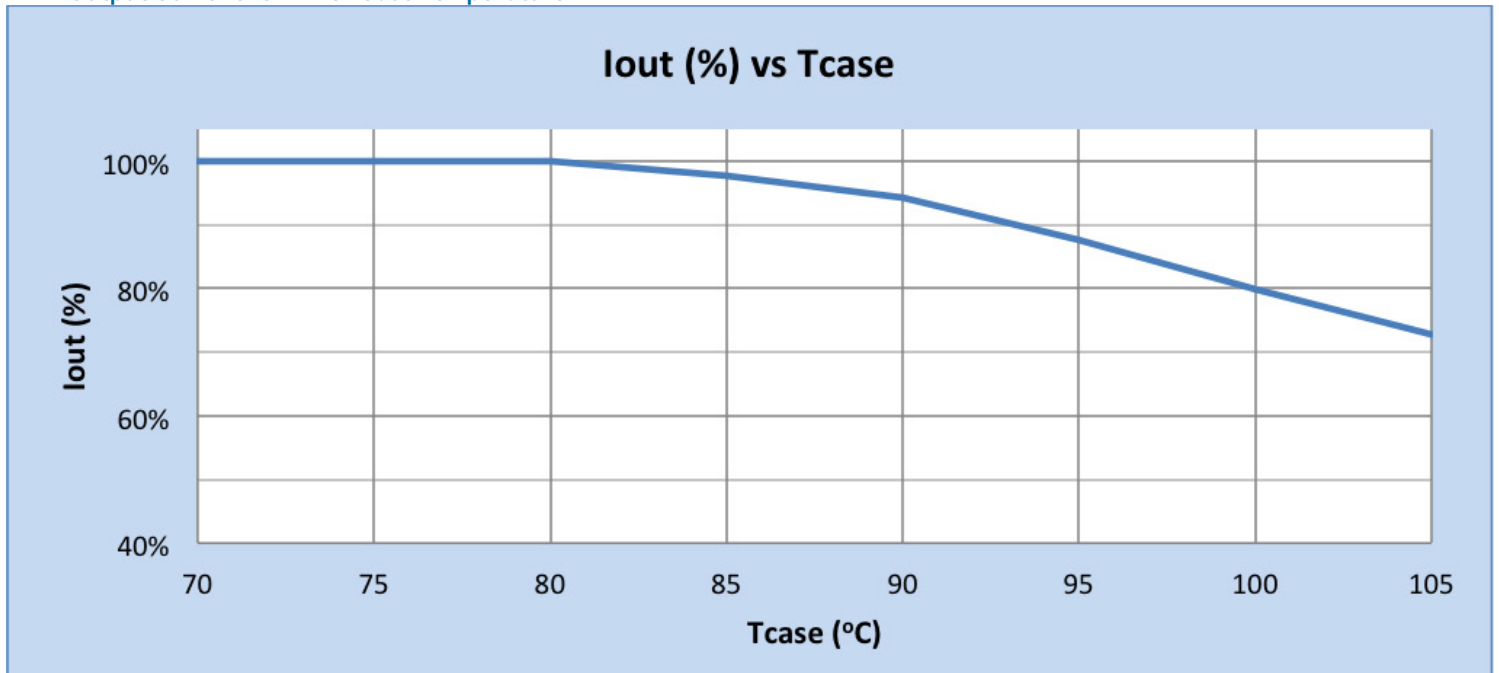
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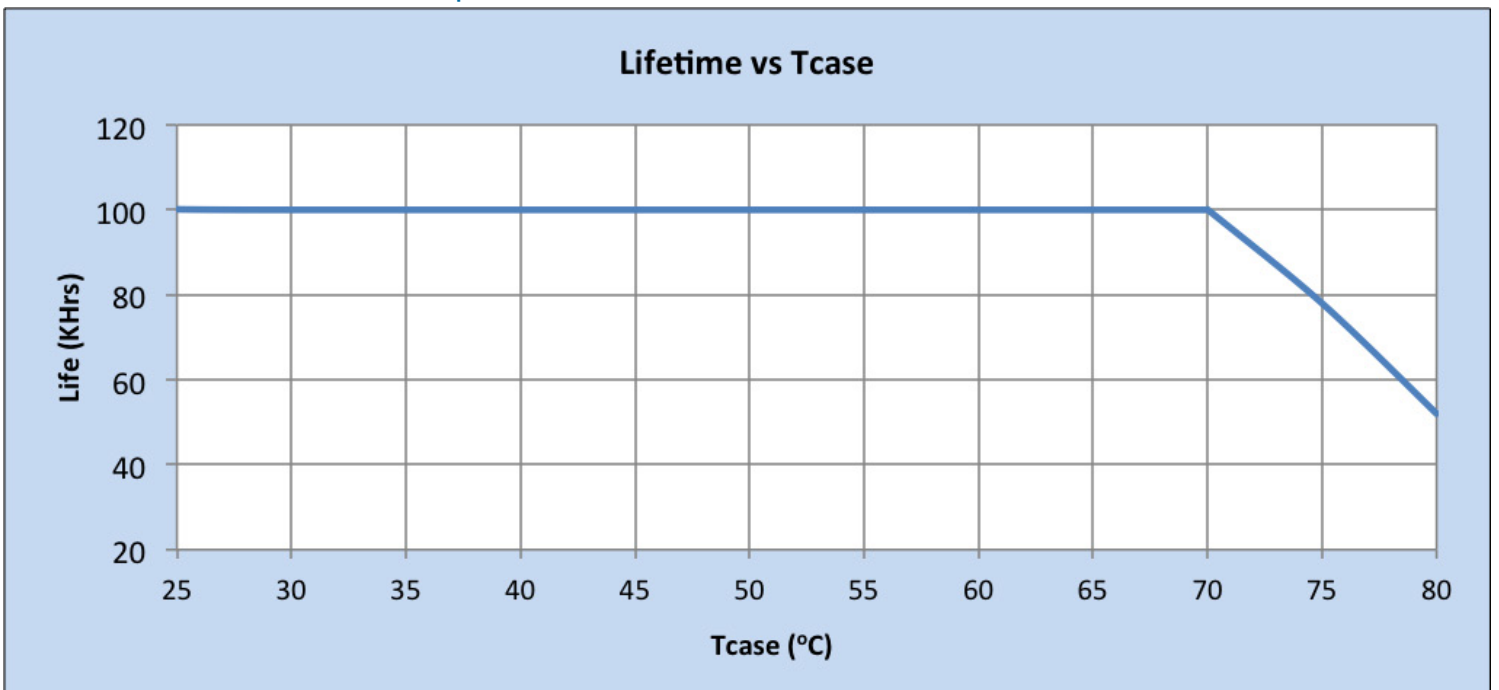
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Output Current vs. Driver Case Temperature:



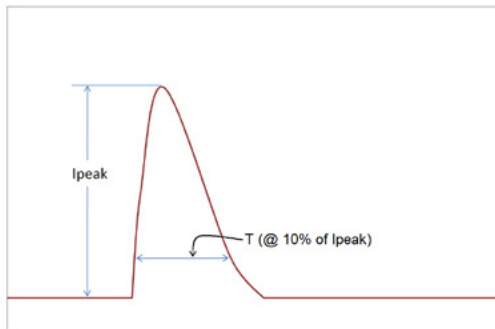
Driver Lifetime vs. Driver Case Temperature:



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Inrush Current Info:



| V_{in} | I_{peak} | $T (@ 10\% \text{ of } I_{peak})$ |
|----------|------------|-----------------------------------|
| 120 Vrms | 38A | 209 μ s |
| 277 Vrms | 93A | 190 μ 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) |
|---|-------------------------|-------------------------------|
| 1.2/50 μ s Combination Wave (w/t 2 ₂) | 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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