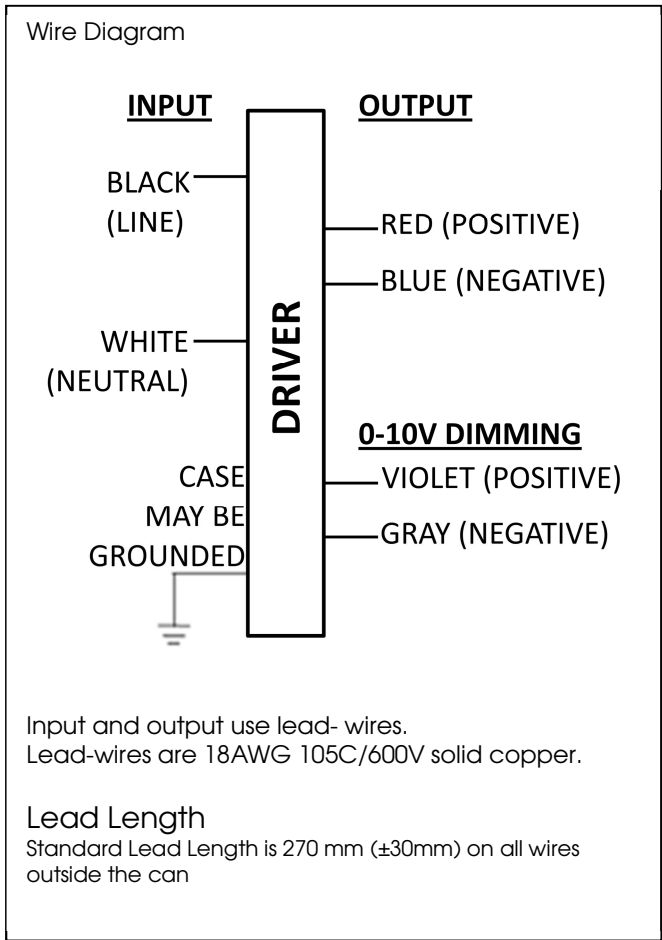


| XI075C070V105CNY1 | |
|--------------------------|------------------------------------|
| Brand Name | XITANIUM |
| Description | XITANIUM 75W 0.70A INT-Y I-10V SXT |
| Input Voltage | 120 ~ 230 ~ 277V |
| Input Frequency | 50/60Hz |
| RoHS | Yes |
| Approbations | UL,CSA |
| Status | Active |

| Output Power (W) | Output Voltage (V) | Output Current (A) | Efficiency@ Max Load | | | Max Case Temp. (°C) | Input Current (Arms) | | | Max. Input Power (W) | Inrush Current (A _{pk} /50%-μs) | | | THD @ Max Load (%) | Power Factor @ Max Load | Surge Protection Common/Diff (kV) | Weight (Lbs/kgs) | Envir. Protection Rating |
|------------------|--------------------|--------------------|----------------------|------|------|---------------------|----------------------|-------|-------|----------------------|--|---------|---------|--------------------|-------------------------|-----------------------------------|------------------|--------------------------|
| | | | 120V | 230V | 277V | | 120 V | 230 V | 277 V | | 120 Vin | 230 Vin | 277 Vin | | | | | |
| 75 | 54 ~ 107 | 0.7 | 90.5 | 92.6 | 92.7 | 80 °C | 0.69 | 0.35 | 0.29 | 85 | 41/100 | 80/100 | 90/100 | <20 | >0.95 | 4/4 | 1.53/ 0.7 | UL Dry & Damp |
| | | | | | | | | | | | | | | | | | | |



| Dimming Method | Dimming Range | Minimum Output Current (A) | Other Comments |
|--|---------------|----------------------------|--------------------------------------|
| I-10V Isolated UL Class 1 and Class 2 Wiring | 10% ~ 100% | 0.070 | Dimming source current: 150 μA (±3%) |

Enclosure

| | in. (mm) |
|-----------------|-------------|
| Case Length | 5.52 (138) |
| Case Width | 2.35 (59.1) |
| Case Height | 1.52 (38) |
| Mounting Length | 6.12 (153) |
| Mounting Width | 1.7 (42.9) |
| Overall Length | 6.72 (168) |

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| Approbations | UL,CSA |
| Status | Active |

120V to 277V

PHILIPS ADVANCE
Technical Information 1.800.372.3331
 Rosemont, IL

LED Electronic Driver
XI075C070V105CNY1M

XITANIUM
75W 0.7A
1-10V Dimming

| | | | | |
|----------|----------|------|------|-----|
| Vin (V) | 120 | 220 | 240 | 277 |
| Iin (A) | 0.7 | 0.39 | 0.35 | 0.3 |
| Freq | 50/60Hz | | | |
| PF | 0.95 | | | |
| Vout(V) | 54 - 107 | | | |
| Iout(mA) | 700 | | | |

Vout (max.) = 111V

Tc
MAX 80°C

ASSEMBLED IN MEXICO

Product Data

| | |
|-----------------------------------|---|
| Order code | XI075C070V105CNY1 |
| Full product code | XI075C070V105CNY1 |
| Full product name | XITANIUM 75W 0.70A INT-Y1-10V SXT |
| Net weight per piece | 0.7 KG / 1.53 lbs |
| Interfaces | 0-10V Dimming |
| Ambient Temp Range | -40C to +55C |
| Corresponding Tcase | -15C to +80C |
| 0-10V Dimming Specifications | 150µA ± 3% source current from driver, Vdim > 14.5V to shutdown driver, Current needed at 16V < 3mA typ (4mA max), see dim curve. |
| Line Voltage (AC Operation) | 120-277V +/- 10% |
| Line Voltage (DC Operation) | N/A |
| Line Current | 0.69A @ 120V, 0.35 A @230V, 0.29A @ 277V |
| Line Frequency | 50/60Hz |
| Envir. Protection Rating | UL Dry & Damp |
| Life @ TC 70C | 100000 hr [nom] refer to graph below |
| Life @ TC 80C | 50000 hr [nom] refer to graph below |
| Suitable for Outdoor use? | Yes |
| Max TC | 80C |
| Inrush current Width | Refer to table |
| Maximum ballast number on MCB 16A | 16 [max] |
| Input Over-voltage | Can survive input over-voltage stress of 320VAC for 48 hours and 350VAC for 2 hours |
| LED Current Tolerance | +/- 5 % of Imax |
| Earth leakage current | 0.7 mA [max] |
| Output Current ripple | 30% @ 700 mA (ripple = pk-pk/avg) |
| THD total | < 20% |
| PF @ Max Load | >0.95 |
| Wire Isolation | All wires are Double isolated to ground |
| Protections | Short Circuit and Open Circuit Protection for LED + and LED- |
| Standby power | < 0.4W |

Revised 10/02/2012



| XI075C070V105CNY1 | |
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| Input Frequency | 50/60Hz |
| RoHS | Yes |
| Approbations | UL,CSA |
| Status | Active |

Installation & Application Notes:

Section I – Physical Characteristics

- 1.1 LED Driver shall be installed inside an electrical enclosure
- 1.2 Wiring inside electrical enclosure shall comply with 600V/105°C rating or higher.
- 1.3 0-10V Dimming wiring can be both Class I and Class 2.

Section II – Performance

- 2.1 LED Driver has a rated lifetime of 50,000 hours @ TC <=80C.
- 2.2 LED Driver tolerates sustained open circuit and short circuit output conditions without damage.
- 2.3 LED Driver maximum allowable case temperature is 80°C – see product label for measurement location.
- 2.4 LED Driver has Thermal Fold Back or shutdown above TCmax, please refer to the table for typical performance.
- 2.5 LED Driver reduces output power to LEDs if its case temperature >90°C.
- 2.6 LED Driver complies with the requirements of UL, CSA, FCC47 Class A.

ELECTRICAL RATINGS:

| Model | Input, 50/60 Hz | | Output (Nominal) | | |
|-------------------|---------------------|--------------------|------------------|------------|-------|
| | V | A | V DC | mA DC max. | Watts |
| XI075C070V105CNY1 | 120/220/240/ 277 | 0.7/0.39/ 0.35/0.3 | 107 | 700 | 75 |

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Section III – Conditions of acceptability (File E321253)

When installed in the end-use equipment, the following are among the considerations to be made:

- 3.1 The equipment shall be installed in compliance with the enclosure, mounting, spacing, casualty and segregation requirements of the ultimate application.
- 3.2 The driver case must be grounded in the end-use application.
- 3.3 The driver is suitable for use in "DAMP" and "DRY" locations.
- 3.5 The maximum available output parameters from the (0-10 V) dimming circuit provided on LED driver met the limitations for Class 2 inherently limited per the UL 1310 standard.
- 3.6 When the drivers are installed in the end-use application, the case temperature should not exceed the temperature limits specified in the following table:

| Model No. | Input Voltage, Hz | Max. Case @ Tc, °C |
|---|------------------------|--------------------|
| XI075C070V105DNY1, XI075C070V105CNY1 | 120/220/240/277, 50/60 | 80 |

- 3.7 The leakage current test should be repeated in the end device. In tests, as a Component, test results using Simpson 228 leakage current meter were less than 0.5 MIU. The measured leakage current values were as follows:

| Model No. | Test Voltage, V, 60 Hz | Measured Leakage, MIU |
|--|------------------------|-----------------------|
| XI075C070V105DNY1 XI075C070V105CNY1 | 120 | 0.14 |
| XI075C070V105DNY1 XI075C070V105CNY1 | 277 | 0.36 |

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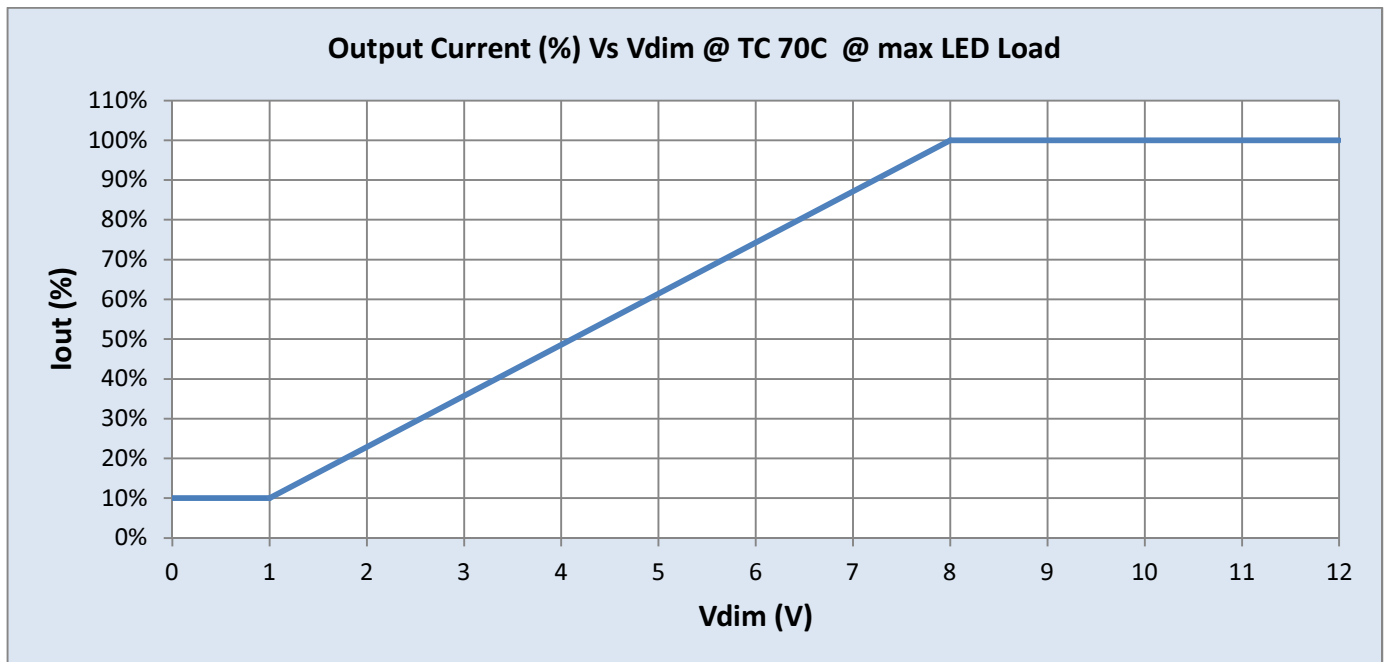
PHILIPS LIGHTING ELECTRONICS N.A.
 10275 WEST HIGGINS ROAD · ROSEMONT, IL 60018
 Tel: 800-322-2086 · Fax: 888-423-1882 · www.philips.com/advance
 Customer Support/Technical Service: 800-372-3331 · OEM Support: 866-915-5886

| XI075C070V105CNY1 | |
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| Input Frequency | 50/60Hz |
| RoHS | Yes |
| Approbations | UL,CSA |
| Status | Active |

Performance Specifications:

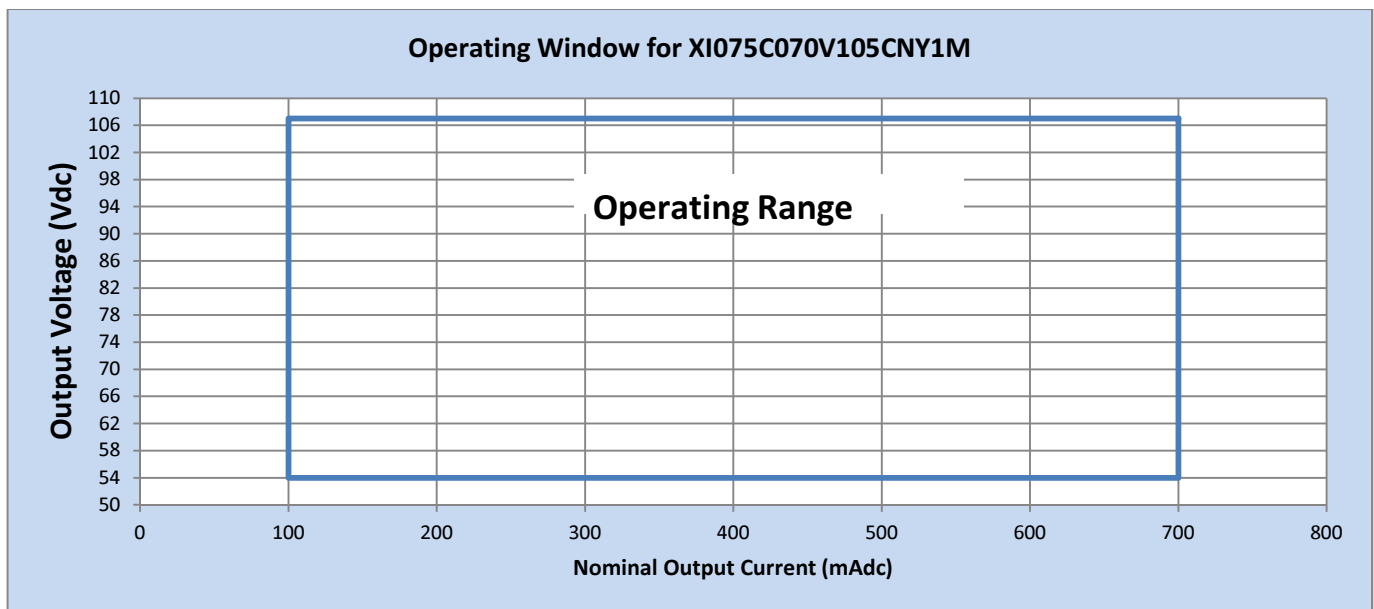
Dimming Interface Info:

| I-10V Dimming Curve | |
|---|------------------------------|
| Dimming source current from the driver: | 150 μ A (\pm 3%) |
| LED Current Tolerance at any value of Vdim: | \pm 5% of I _{max} |
| Minimum Dim Level: | 10% - 100% |
| Shutdown driver with Vdim > 14.5V. Current limit at 3mA typ (4mA Max) at 16V dim. | |



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Operating Window:

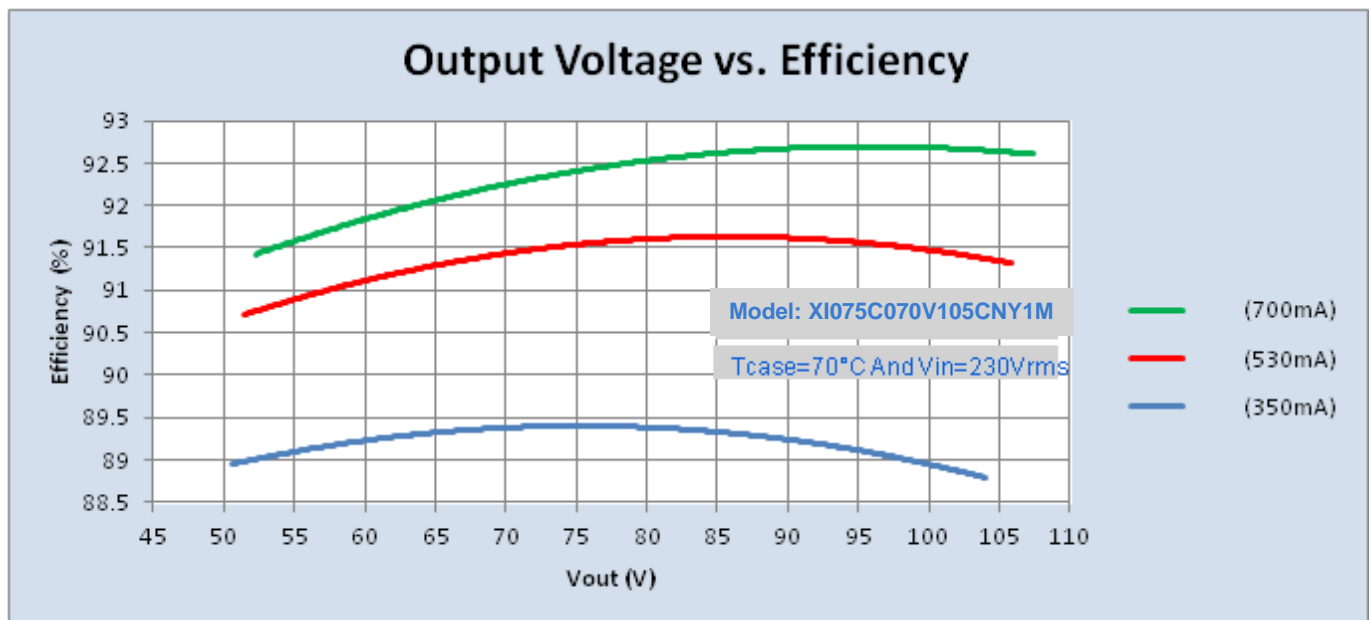
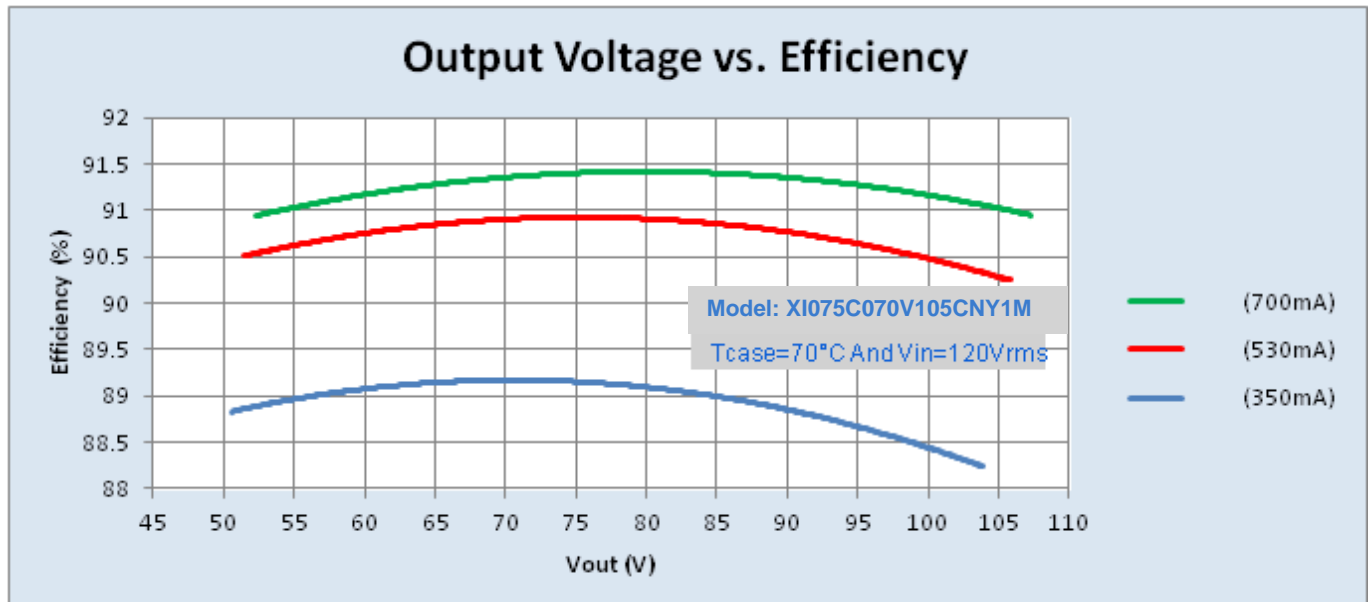


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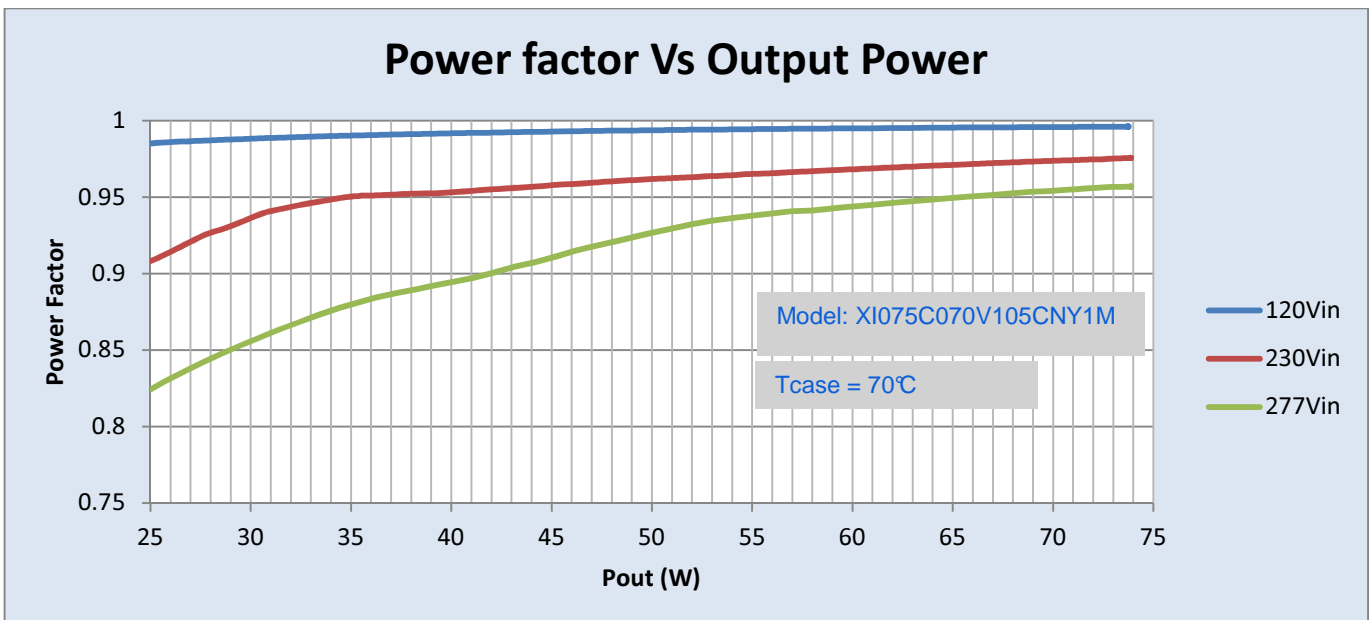
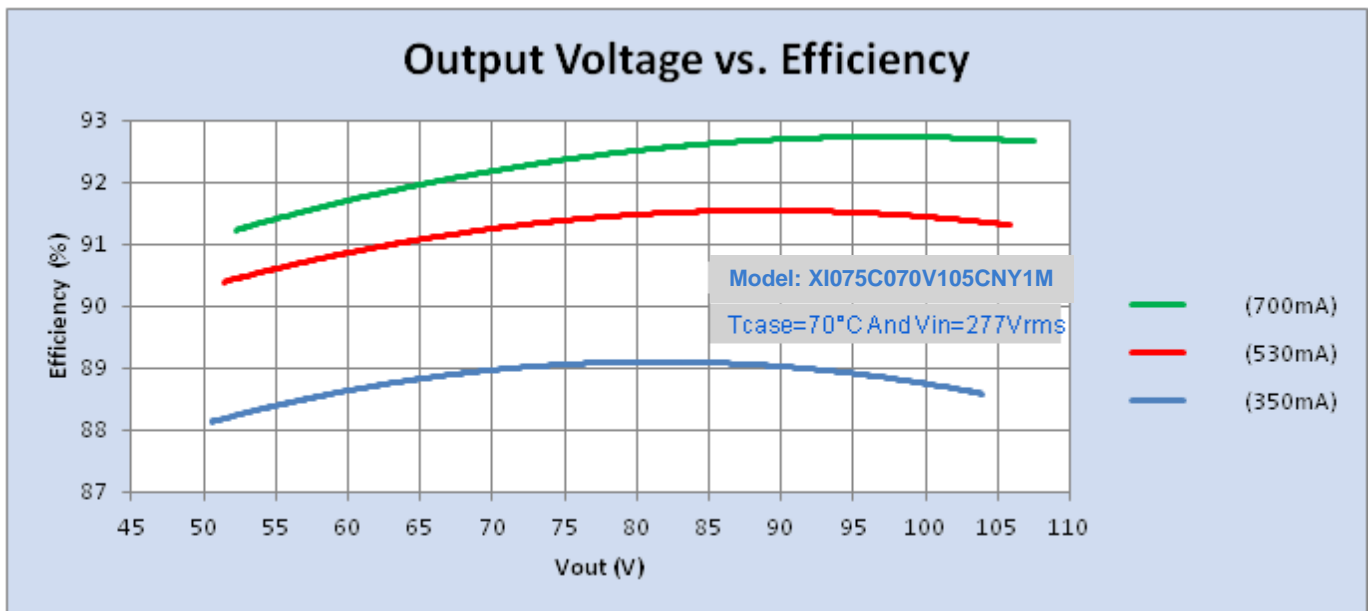
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| Approbations | UL,CSA |
| Status | Active |

Performance Plots:



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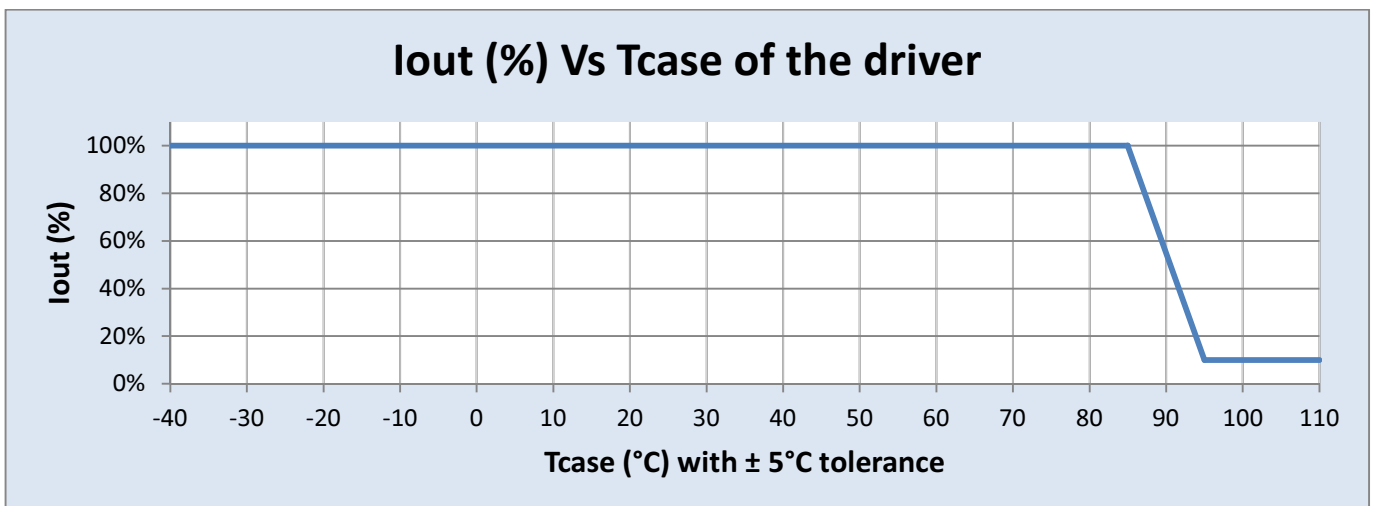
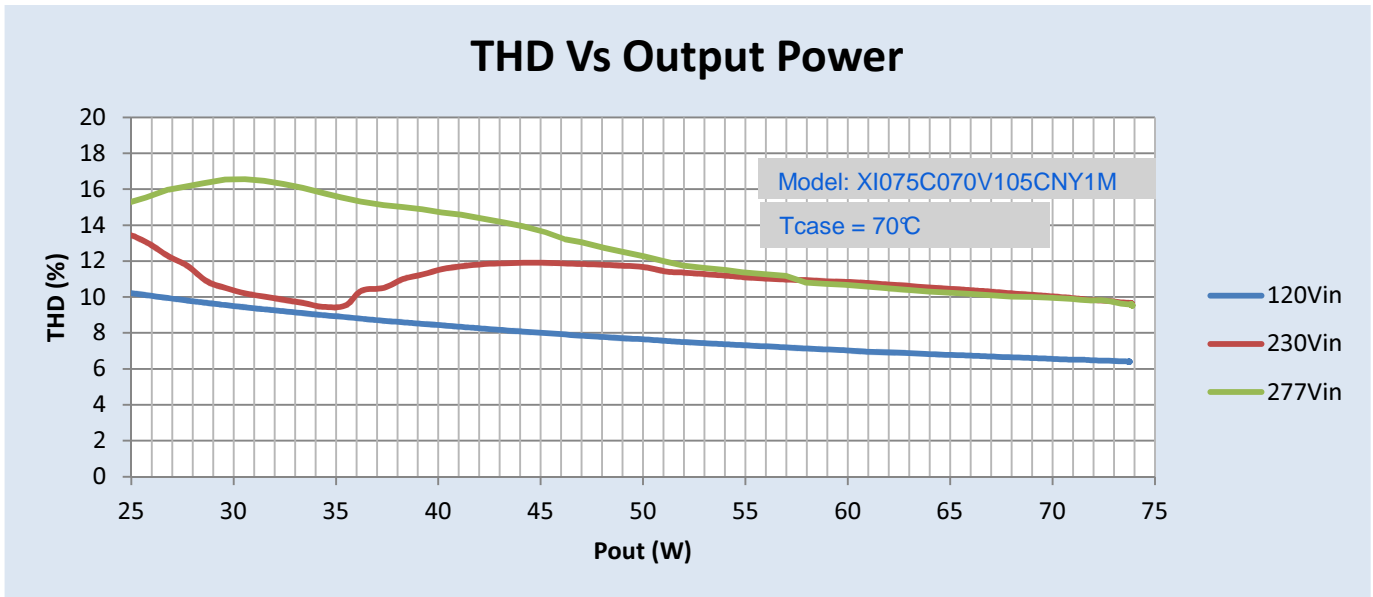
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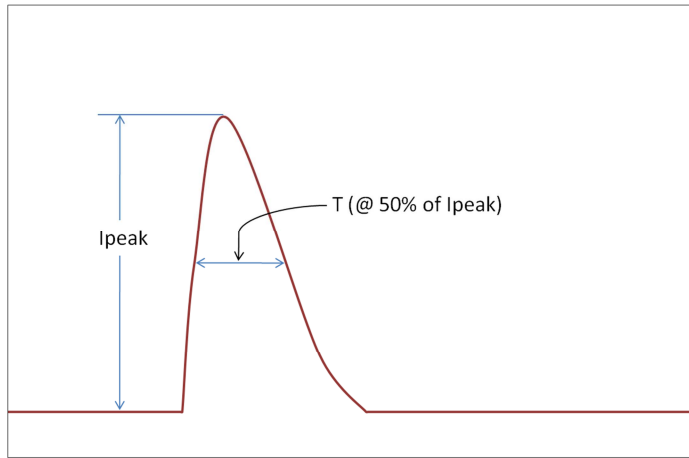
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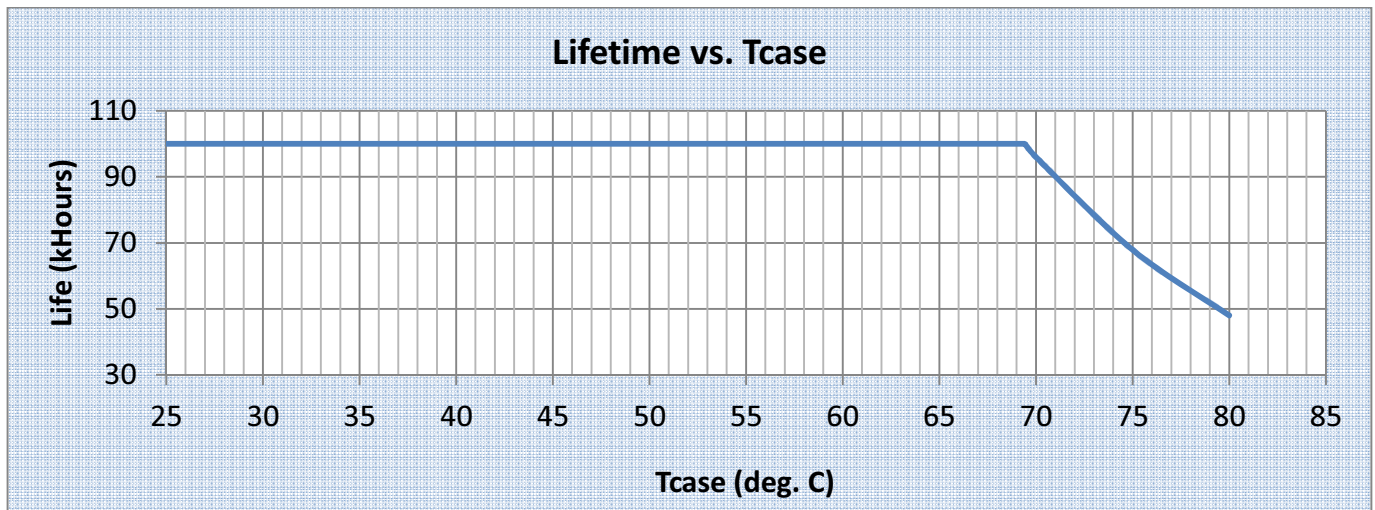
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| RoHS | Yes |
| Approbations | UL,CSA |
| Status | Active |

Inrush Current Info:



| Vin | Ipeak | T (@ 50% of Ipeak) |
|----------|-------|--------------------|
| 120 Vrms | 41 A | 100 μs |
| 230 Vrms | 82 A | 100 μs |
| 277 Vrms | 90 A | 100 μs |

Lifetime vs. Tcase of Driver:



Failure Rate Info based upon field call rate data:

- <0.01% per 1 kHr @ ≤ Tcase 70°C

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| Input Frequency | 50/60Hz |
| RoHS | Yes |
| Approbations | UL,CSA |
| Status | Active |

Isolation:

| Isolation | Input Wires | Output Wires | 0-10V Wires | Chassis |
|---------------------|--------------------|---------------------|--------------------|----------------|
| Input Wires | NA | 1750 | 1750 | 3750 |
| Output Wires | 1750 | NA | 1750 | 3750 |
| 0-10V Wires | 1750 | 1750 | NA | 3750 |
| Chassis | 3750 | 3750 | 3750 | NA |

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