

|                       |                                  |
|-----------------------|----------------------------------|
| <b>9290 007 02302</b> |                                  |
| Brand Name            | XITANIUM                         |
| Description           | Xitanium 75W .35-.7A Prog GL sXt |
| Input Voltage         | 120~200~240~277                  |
| Input Frequency       | 50/60Hz                          |
| RoHS                  | Yes                              |
| Status                | Active                           |

## Electrical Specifications

| Output Power (W) | Output Voltage (V) | Output Current (A) | Efficiency@ Max Load | Max Case Temp. (°C) | Input Current |    |    |   | Max. Input Power (W) | Inrush Current (A <sub>pk</sub> /50%-µs) |         | THD @ Max Load (%) | Power Factor @ Max Load | Surge Protection Common/Diff (KV) | Weight (Lbs/kgs) | Envir. Protection Rating |
|------------------|--------------------|--------------------|----------------------|---------------------|---------------|----|----|---|----------------------|--|---------|--------------------|-------------------------|-----------------------------------|------------------|--------------------------|
|                  |                    |                    |                      |                     | 1             | 2  | 2  | 2 |                      | 120 Vin                                  | 58/140  |                    |                         |                                   |                  |                          |
| 75               | 80 ~ 152           | 0.350 – 0.70       | > 92%                | 80 °C               | 0             | 0  | 4  | 7 | 85                   | 230 Vin                                  | 108/140 | 20                 | >0.95                   | 3/3                               | 2.8/ 1.27        | UL Dry & Damp            |
|                  |                    |                    |                      |                     | 7             | 45 | 35 | 3 |                      | 277 Vin                                  | 126/140 |                    |                         |                                   |                  |                          |
|                  |                    |                    |                      |                     |               |    |    |   |                      |  |         |                    |                         |                                   |                  |                          |

Wire Diagram

Input and output use lead-wires.  
Lead-wires are 18AWG 105C/600V solid copper.

Standard Lead Length is 500mm+/-10mm on all wires outside the can

| Dimming Method | Dimming Range | Minimum Output Current (A) | Min (typ). Output Power(W) | Other Comments                 |                                 |
|----------------|---------------|----------------------------|----------------------------|--------------------------------|---------------------------------|
| 1-10V Isolated | 10% ~ 100%    | 0.05                       | 30                         | Dimming source current: 150 µA |                                 |
| DALI           | 1 ~ 255       | 10% ~ 100%                 | 0.05                       | 30                             | Linear or Logarithmic variation |

Enclosure

|                 | in. (mm)     |
|-----------------|--------------|
| Case Length     | 8.38 (211.1) |
| Case Width      | 2.35 (59.1)  |
| Case Height     | 1.47 (37.1)  |
| Mounting Length | 9.0 (226.2)  |
| Mounting Width  | 1.7 (42.9)   |
| Overall Length  | 9.54 (240.5) |



Revised 09/01/2016



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| <b>Product Data</b>               |   |
|-----------------------------------|---|
| Order code                        | 929000702302  |
| Full product code                 | 929000702302  |
| Full product name                 | Xitanium75W .35-0.7A Prog GL sXt  |
| Net weight per piece              | 1.27 KG / 2.8 lbs   |
| Interfaces                        | 1-10V Dimming, DALI, RSET,NTC, PLS,CLO  |
| Ambient Temp Range                | -40C to +55C  |
| Corresponding Tcase               | -15C to +80C  |
| Cycling Temperature               | -20C to -40C limited to (400cycles max)   |
| Line Voltage                      | 120-277V  |
| Line Current                      | 0.7A @ 120V, 0.35A @ 240V, 0.3 @ 277V   |
| Line Frequency                    | 50/60Hz   |
| Envir. Protection Rating          | UL Dry & Damp   |
| Life @ TC 70 C                    | 100000 hr [nom] refer to graph below  |
| Life @ TC 80 C                    | 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 | 11 [max]  |
| Input Over-voltage                | Can survive input over-voltage stress of 320VAC for 48 hours and 350VAC for 2 hours |
| LED Current Tolerance             | +/-5%   |
| Earth leakage current             | 0.7 mA [max]  |
| Mains voltage safety (AC)         | +/-10%  |
| Mains voltage performance (AC)    | +/-10%  |
| Min. Mains voltage operational    | 108 V [min]   |
| Output peak voltage               | 305V [max]  |
| Output Current ripple             | 30% @ 700 mA (ripple = pk-pk/avg)   |
| THD total                         | < 20%   |
| THD 3 <sup>rd</sup> Harmonic      | < 15%   |
| 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                     | <0.5W at 230V, 50Hz input   |

Revised 04/05/2012

**PHILIPS LIGHTING GBU LED Lamps and Systems**  
10275 WEST HIGGINS ROAD · ROSEMONT, IL 60018  
Tel: 800-322-2086 · Fax: 888-423-1882 · [www.philips.com/advance](http://www.philips.com/advance)  
Customer Support/Technical Service: 800-372-3331 · OEM Support: 866-915-5886



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## Electrical Specifications

### 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.

#### 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 reduces output power to LEDs if its case temperature exceeds >90°C –thermal protection and eventually reduces output current to zero.
- 2.5 LED Driver complies with the requirements of UL, CSA, CE, ENEC, CISPR 15 Ed 7.2 and CQC (TBD).

#### Section III – UL 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.
- 3.4 The secondary and the dimming circuits should be considered as part of the primary circuit in the end-use application.
- 3.5 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 |
|--------------|-------------------|--------------------|
| 929000702302 | 120-277, 50/60    | 80                 |

- 3.6 The leakage current test should be repeated in the end device. In tests, as a component, test results were higher than 0.5 MIU but lower than 0.75 MIU. The measured leakage current values were as follows:

| Model Number | Test Voltage, V, 60 Hz | Measured Leakage, MIU |
|--------------|------------------------|-----------------------|
| 929000702302 | 120                    | 0.28                  |
| 929000702302 | 277                    | 0.71                  |

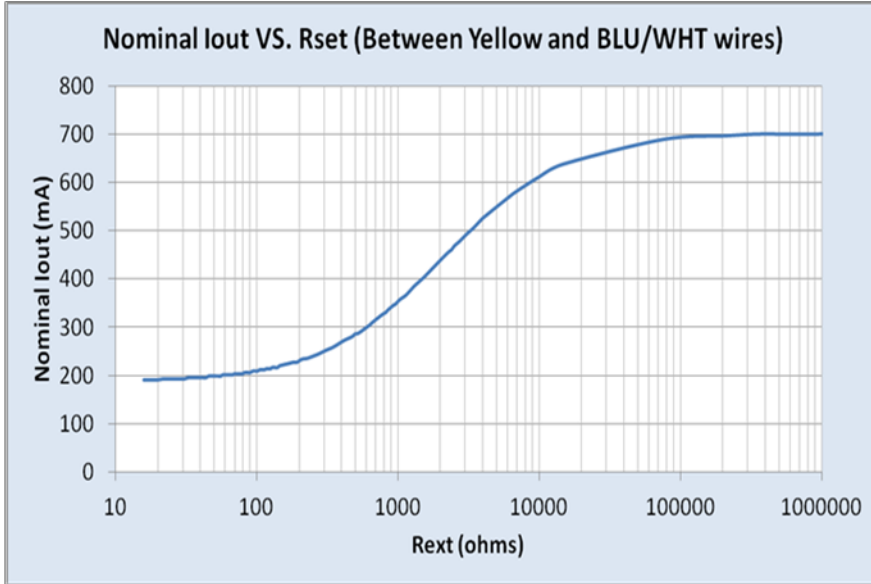
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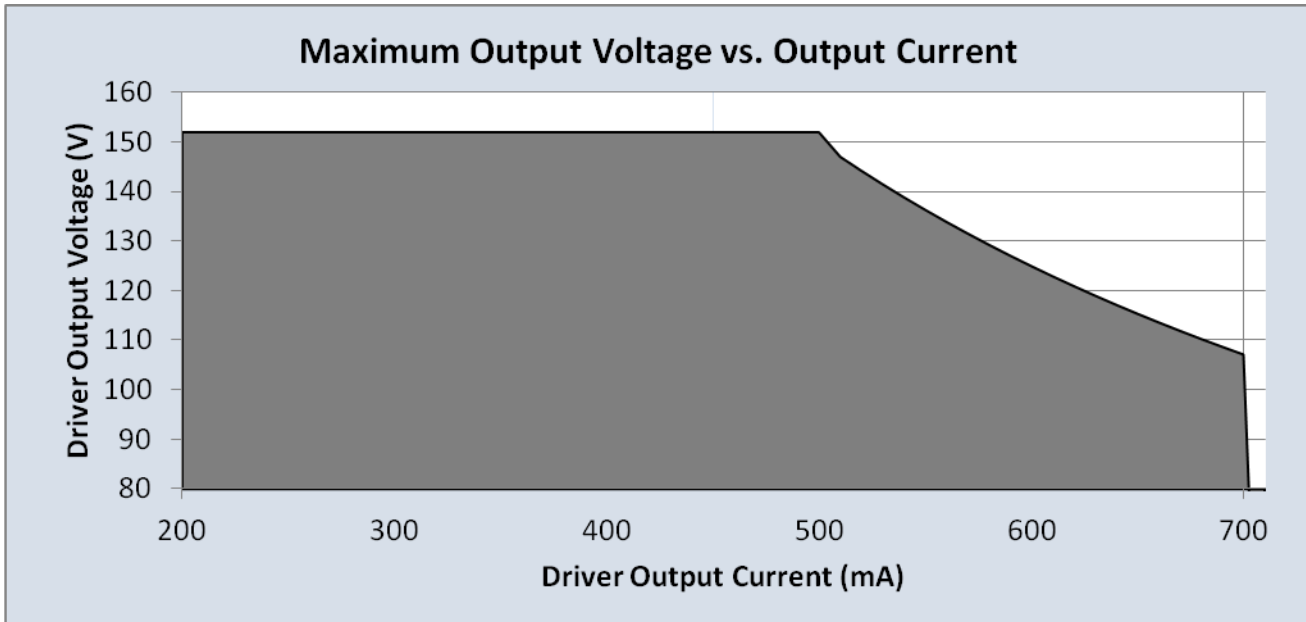
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Electrical Specifications

**AOC (Adjustable Output Current) Settings:**



| Rset (Ohms) | Current(mA) |
|-------------|-------------|
| 1           | 191         |
| 100         | 214         |
| 620         | 309         |
| 910         | 347         |
| 935         | 350         |
| 1500        | 406         |
| 2200        | 455         |
| 3000        | 494         |
| 4115        | 530         |
| 4300        | 536         |
| 8200        | 599         |
| 18000       | 649         |
| 100000      | 691         |
| 1000000     | 700         |



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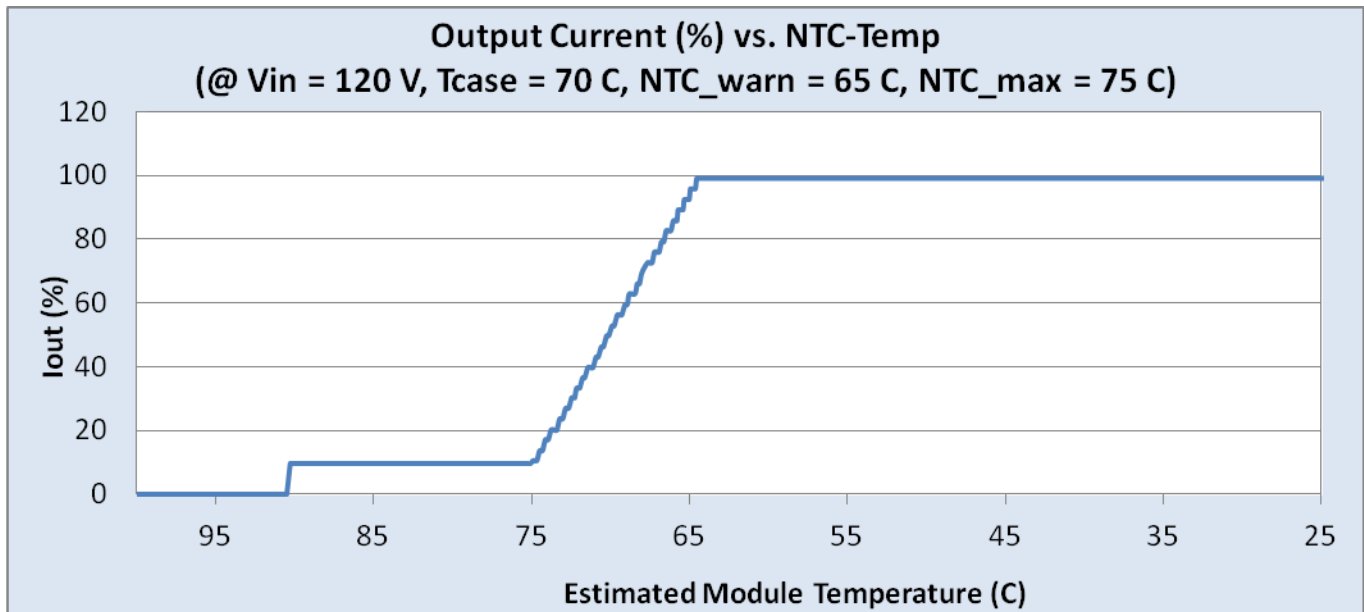
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## Electrical Specifications

### Temperature Profile Settings:

Module Thermal protection can be implemented between 55C to 85 C.

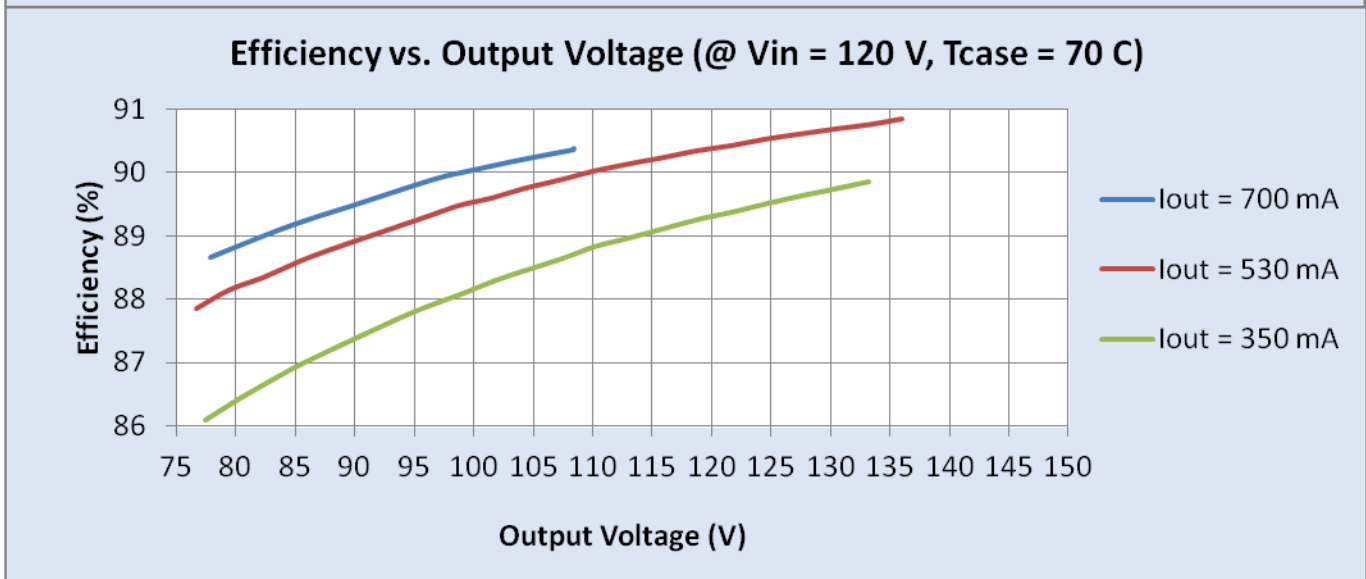
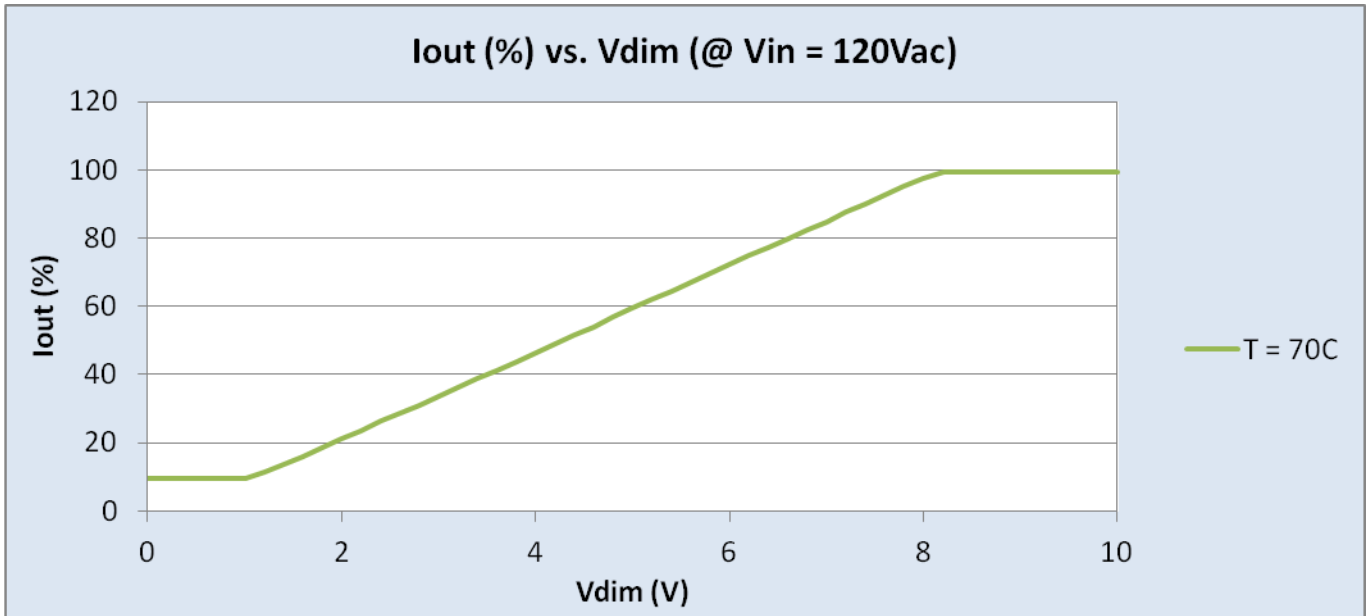
NTC from Murata Part Number NCP18XH103J03RB has to be used.



Revised 04/05/2012

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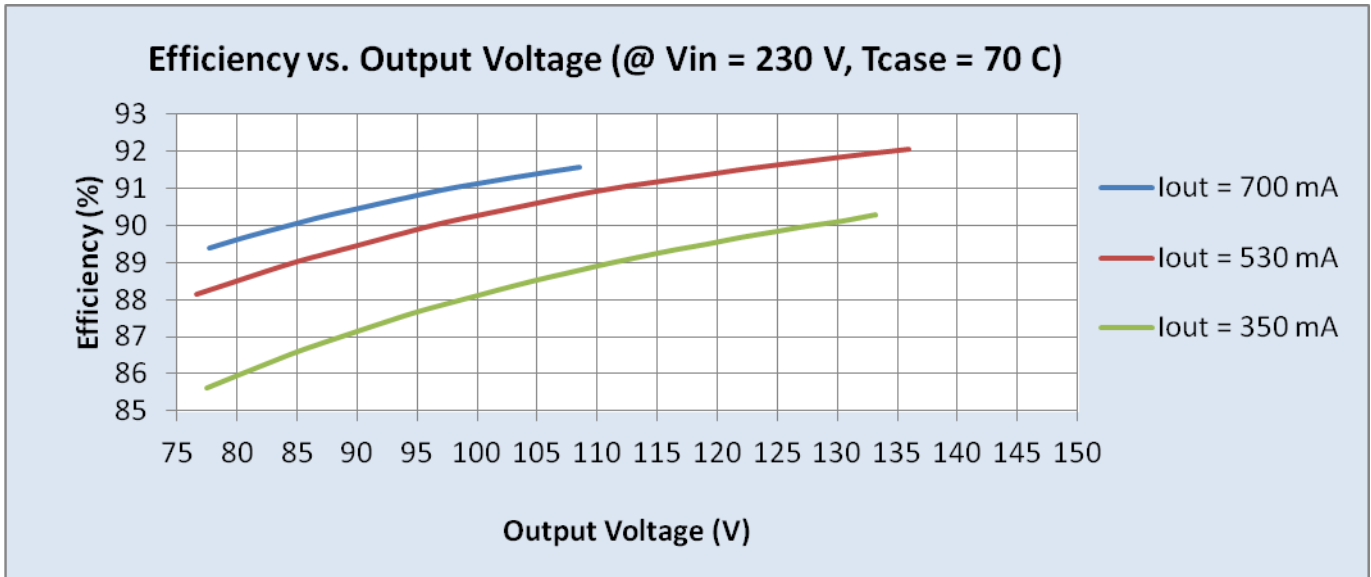
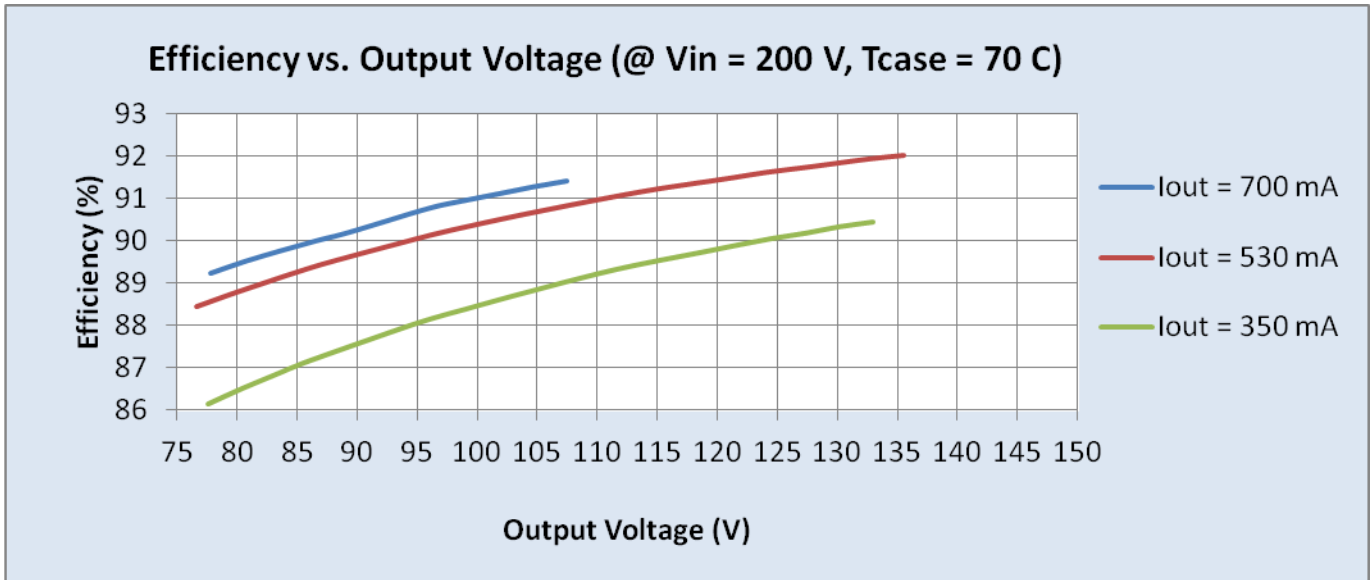
## Electrical Specifications



Revised 04/05/2012

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## Electrical Specifications

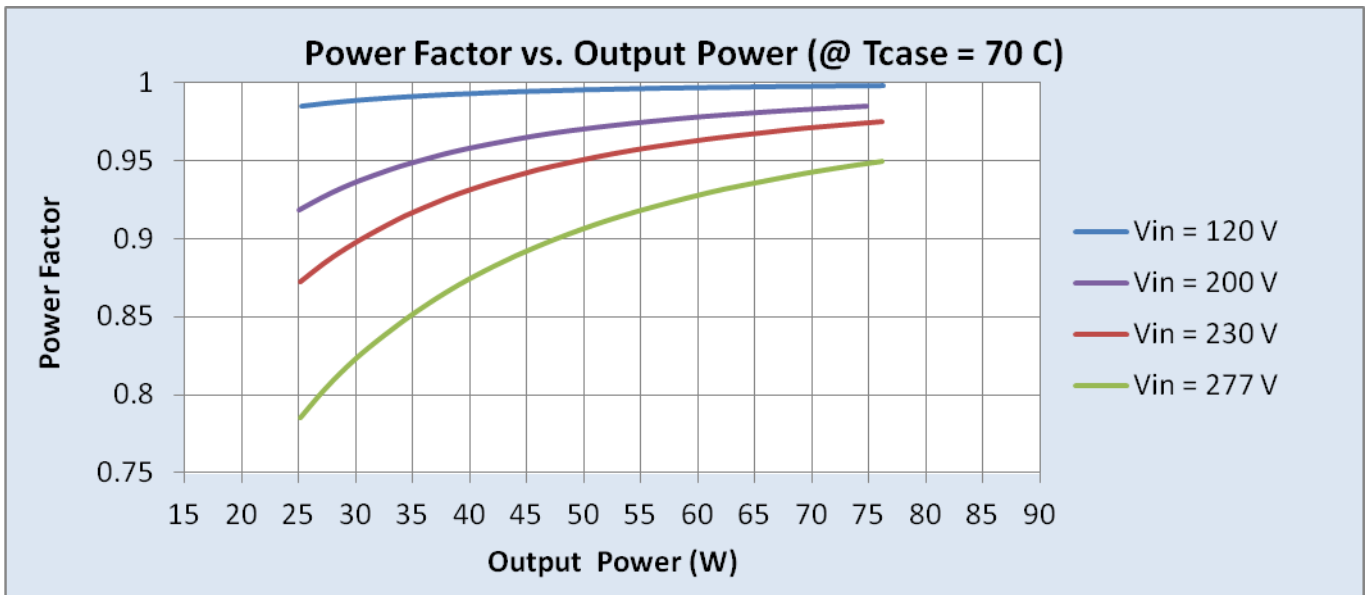
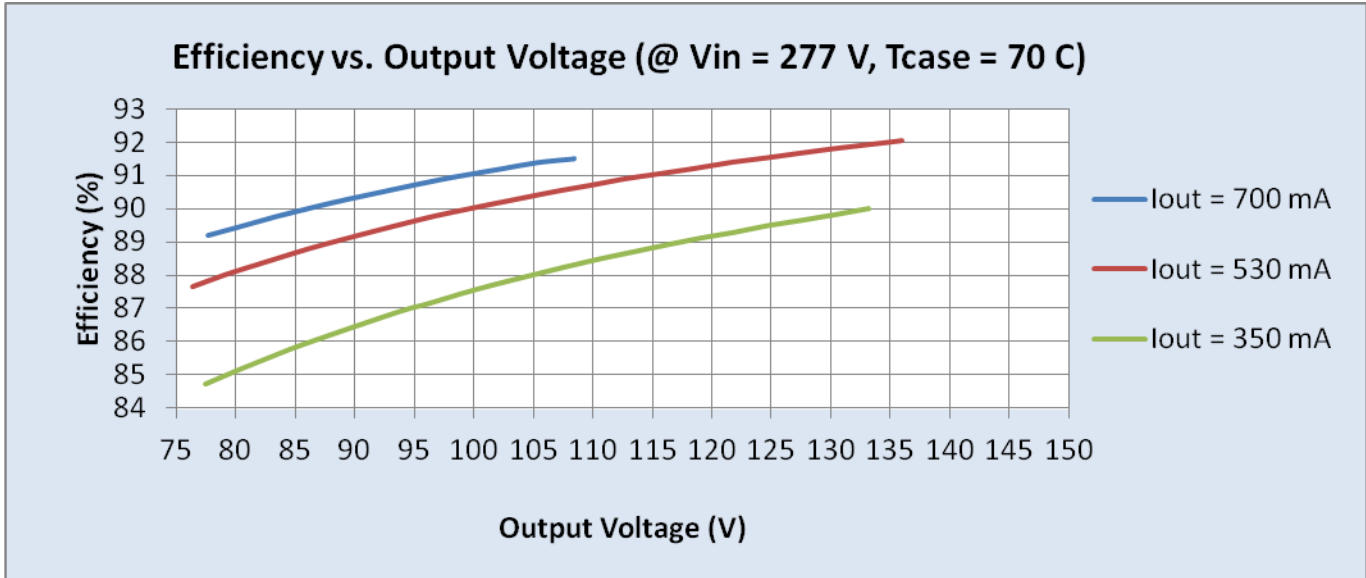


Revised 04/05/2012



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### Electrical Specifications



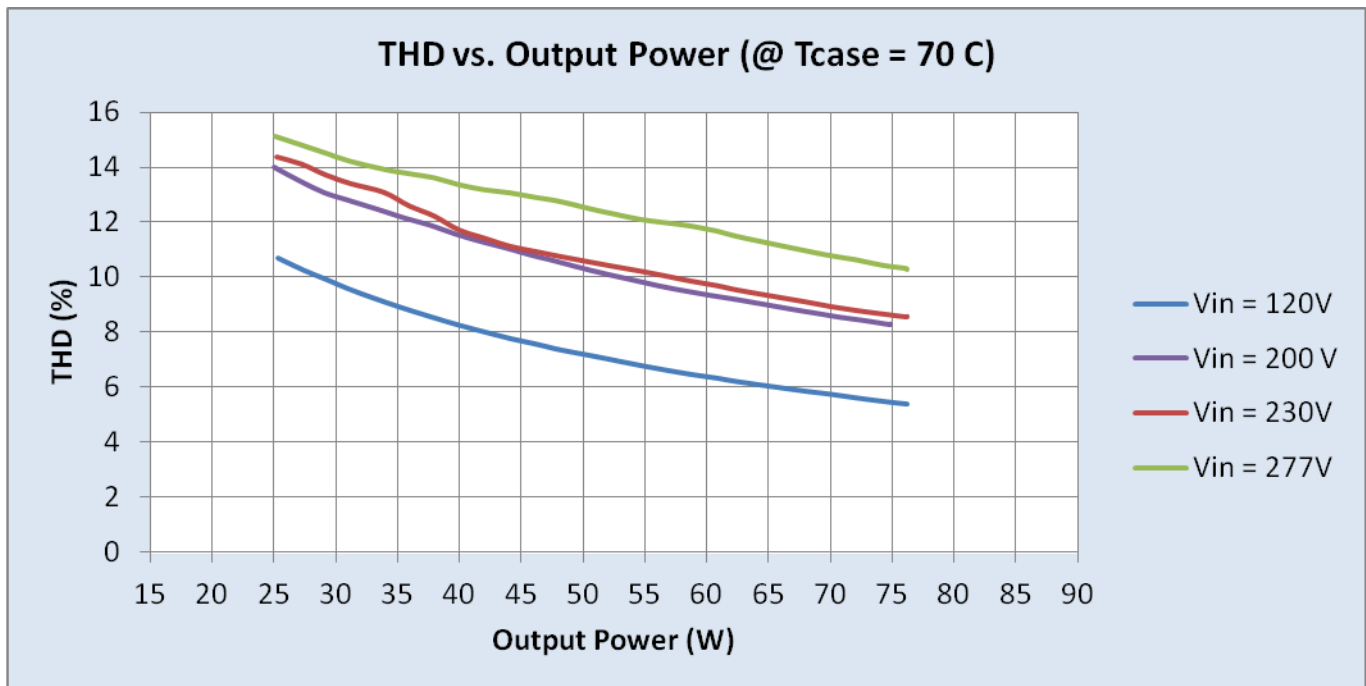
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## Electrical Specifications

## Programming Interface:

The screenshot displays the 'Xitanium Outdoor Driver Programmer V1.3' software interface. The main window is titled 'PHILIPS' and contains several configuration panels:

- Adjustable Output Current (AOC):** Includes radio buttons for 'LED current' (set to 530 mA) and 'Use external Rset'.
- Module Temperature Limit (NTC):** Includes radio buttons for 'Disable NTC protection' and 'NTC warn' (set to 65 C). Other settings include 'NTC max' (75 C) and 'NTC min dim level' (10 %). A small graph shows the dim level dropping from 100% at 65C to 10% at 90C.
- Startup time:** Includes a 'Start fadeup time' set to 1000 ms.
- Constant Lumen Output (CLO):** Includes radio buttons for 'Disable CLO' and 'Enable CLO'. The 'Enable CLO' section has a grid of input values (80, 81, 83, 84, 85, 87, 89, 92, 95, 96, 97, 98, 99, 100) and corresponding output values (0, 4000, 8000, 12000, 16000, 20000, 24000, 28000, 32000, 36000, 40000, 44000, 48000, 52000, 56000, 60000) in Hrs.
- Dimming Interface:** Includes radio buttons for '1 - 10V' (selected), 'DALI', 'Integrated dynadim', and 'No dimming'. A '1-10V Minimum dim level' is set to 10 %.
- Graphs:** A large graph on the right shows 'Dim level %' on the y-axis (0 to 100) and '1-10V Control input voltage (V)' on the x-axis (0 to 10). The graph shows a linear increase from 10% dim level at 1V to 100% dim level at 8V, then remains constant at 100% up to 10V.
- Port Setup:** Shows 'COM 1 Active'.
- Buttons:** 'Read' and 'Program' buttons are visible.
- Notes:** A text area for notes is at the bottom.

## Programming Tool:

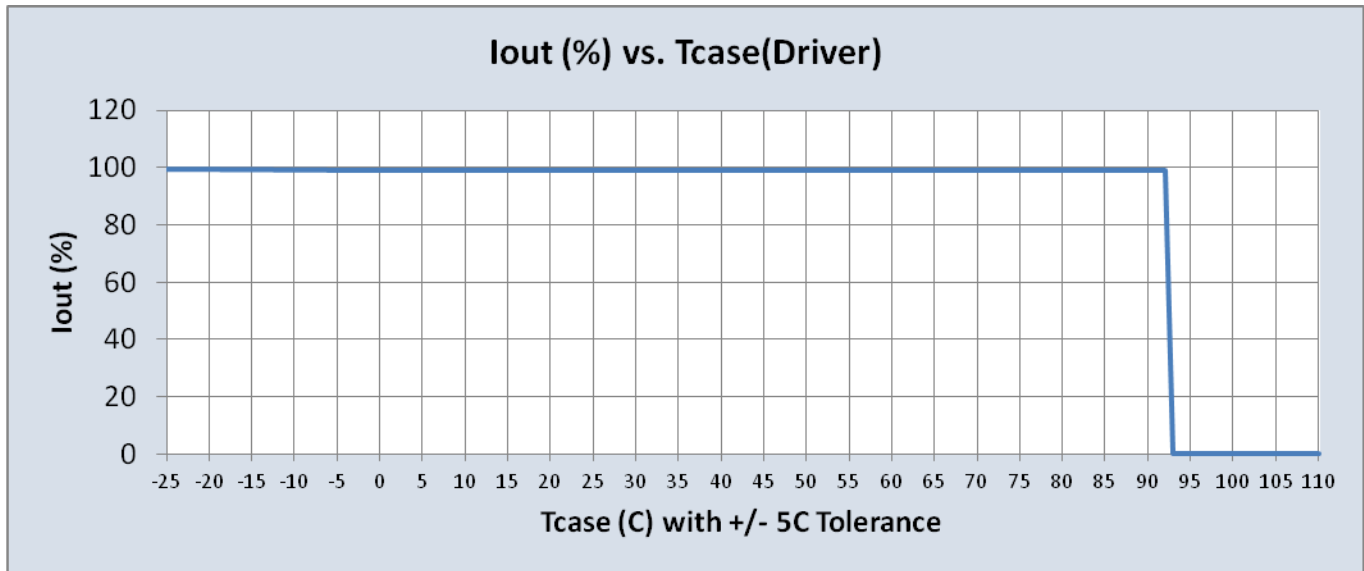
Pls refer to the website.

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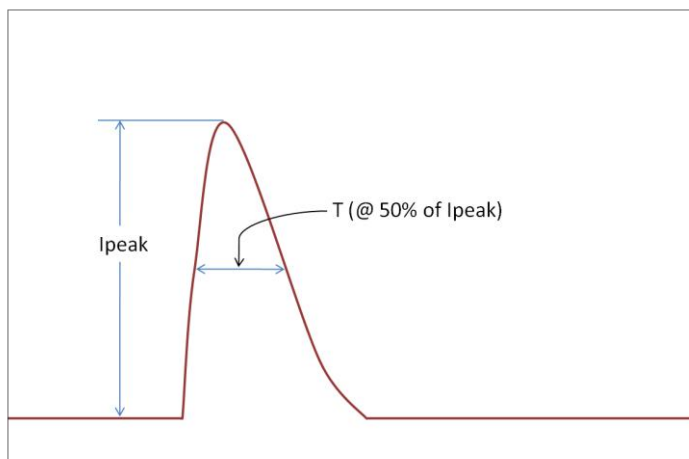
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## Electrical Specifications

### lout vs. Tcase of Driver:



### Inrush Current Info:



| Vin      | Ipeak | T (@ 50% of Ipeak) |
|----------|-------|--------------------|
| 120 Vrms | 58 A  | 140 μs             |
| 230 Vrms | 108 A | 140 μs             |
| 277 Vrms | 126 A | 140 μs             |
| 305 Vrms | 142 A | 140 μs             |

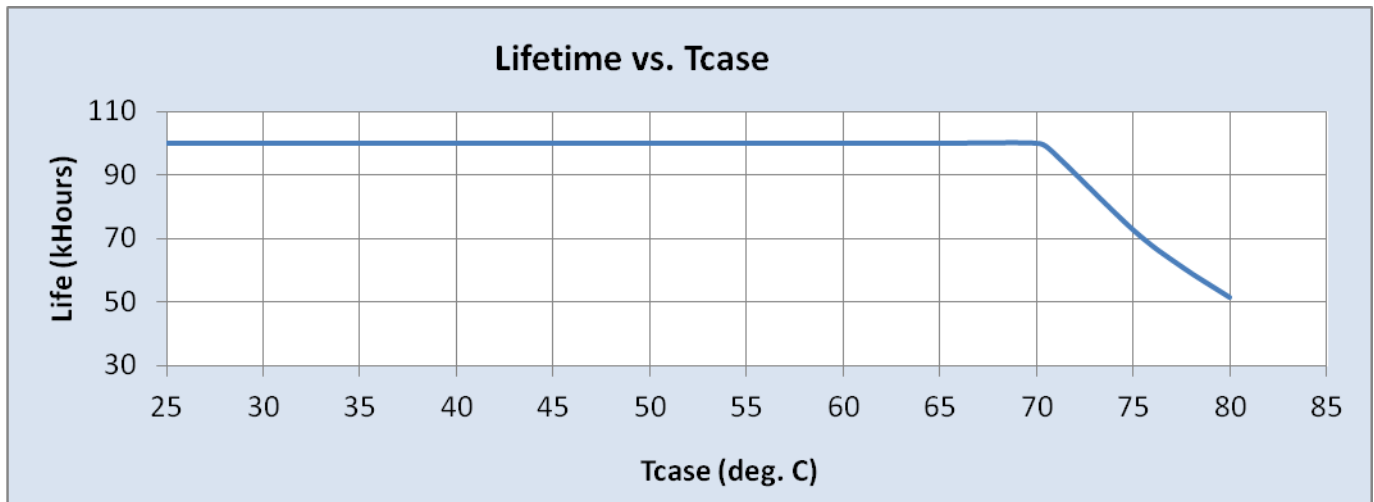
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## Electrical Specifications

### Lifetime vs. Tcase of Driver:



### Failure Rate Info:

1. <0.01% per 1 kHr @<= Tcase 80 C

### Isolation:

| Isolation                             | Input Wires | Output Wires | DALI Wires | 0-10V Wires | Chassis |
|---------------------------------------|-------------|--------------|------------|-------------|---------|
| Input Wires                           | NA          | 1750         | 1750       | 1750        | 3750    |
| Output Wires+ Fortimo Interface Wires | 1750        | NA           | 1750       | 1750        | 3750    |
| DALI Wires                            | 1750        | 1750         | NA         | NA          | 3750    |
| 0-10V Wires                           | 1750        | 1750         | NA         | NA          | 3750    |
| Chassis                               | 3750        | 3750         | 3750       | 3750        | NA      |

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### Revision History:

| Rev No. | Date       | Description                                    | Approval | Remarks |
|---------|------------|--|----------|---------|
| 1.1     | 11/17/2011 | *Remove graph "Failure rate vs. Tcase          | N.T.     |         |
| 1.2     | 04/04/2012 | * Add Envir. Protection Rating                 | N.T.     |         |
| 1.3     | 04/04/2012 | *Add Cycling Temperature to Product Data Table | N.T.     |         |
| 1.4     | 04/05/2012 | *Remove the "M" in the part#                   | N.T.     |         |

Revised 04/05/2012