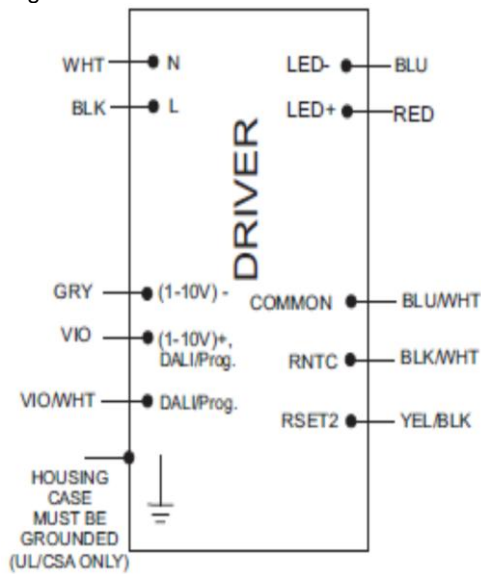


| | |
|---------------------|-----------------------------------|
| 929000708703 | |
| Brand Name | XITANIUM |
| Description | Xitanium 100W 0.7A Prog+ GL-Z sXt |
| Input Voltage | 120 ~ 230 ~ 277V |
| Input Frequency | 50/60Hz |
| RoHS | Yes |
| Status | Active |

Electrical Specifications

| Output Power (W) | Output Voltage (V) | Output Current (A) | Efficiency@ Max Load | | | Max Case Temp. (°C) | Input Current (Arms) | | | Max. Input Power (W) | Inrush Current (A _{pk} /50%-µs) | | | THD @ Max Load (%) | Power Factor @ Max Load | Surge Protection Common/Di ff (KV) | Weight (Lbs/kgs) |
|------------------|--------------------|--------------------|----------------------|------|------|---------------------|----------------------|-------|-------|----------------------|------------------------------------------|---------------------|---------------------|--------------------|-------------------------|------------------------------------|------------------|
| | | | 120V | 230V | 277V | | 120 V | 230 V | 277 V | | 120 V _{in} | 230 V _{in} | 277 V _{in} | | | | |
| 100 | 71 ~ 143 | 0.10 ~ 0.7 | 89.5 | 92 | 92 | 80 °C | 0.94 | 0.48 | 0.41 | 115 | 40/150 | 80 /150 | 100 /150 | <20 See graph | >0.90 See graph | 4/4 | 1.63/0.74 |
| | | | | | | | | | | | | | | | | | |

Wire Diagram



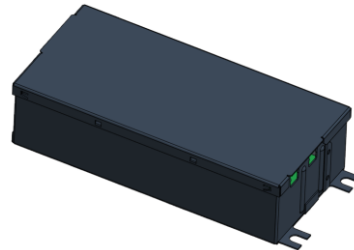
Input and output use lead-wires.
Lead-wires are 18AWG 105C/600V solid copper.

Lead Length

Standard Lead Length is 275 mm (±30mm) on all wires outside the can

| Dimming Method | Dimming Range | Minimum Output Current (A) | Other Comments |
|----------------|---------------|----------------------------|--------------------------------------|
| 1-10V Isolated | 10% ~ 100% | 0.047 | Dimming source current: 150 µA (±3%) |
| DALI | 1 ~ 254 | 10% ~ 100% | Linear or Logarithmic Variation |
| Amp Dimming | 30% ~ 100% | 0.047 | Linear |

Enclosure



| | (mm) |
|-----------------|----------|
| Case Length | (147.38) |
| Case Width | (70.00) |
| Case Height | (38.00) |
| Mounting Length | (155) |
| Mounting Width | (50.00) |
| Overall Length | (165.00) |



Electrical Specifications

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| RoHS | Yes |
| Status | Preliminary |

| Product Data | |
|------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Order code | 929000708703 |
| Full product code | 929000708703 |
| Full product name | XITANIUM 100W 0.7A Prog+ GL-Z sXt |
| Net weight per piece | 0.74 KG / 1.63 lbs |
| Interfaces | 1-10V Dimming, DALI, AmpDim, Integrated Dynadimmer, AOC(via Rset), MTP (via RNTC) |
| Ambient Temp Range | -40C to +55C |
| Corresponding Tcase | -15C to +80C |
| 0-10V Dimming Specifications | 150 μ A \pm 3% source current from driver, Vdim > 14.5V to shutdown driver. See dim curve for detail. |
| Line Voltage | 120-277V |
| Line Current | 0.94A @ 120V, 0.48A @ 230V, 0.41A @ 277V |
| Line Frequency | 50/60Hz |
| Min. Mains voltage operational | 108 V [min] |
| Max. Mains voltage operational | 305V [max] |
| Life @ TC 70C | Refer to graph below |
| Life @ TC 80C | Refer to graph below |
| Suitable for Outdoor use? | Yes |
| Max TC | 80C |
| Maximum ballast number on MCB 16A | 9 [max] |
| Input Over-voltage | Can survive input over-voltage stress of 320VAC for 48 hours and 350VAC for 2 hours |
| Earth leakage current | \leq 0.35Ma |
| Output Current ripple | 30% @ 530 mA (ripple = pk-pk/avg) |
| THD total | Refer to graph |
| PF @ Max Load | Refer to graph |
| Wire Isolation | All wires are Double isolated to ground |
| Isolation between input and output | Basic |
| Isolation towards housing | Double |
| Protections | Short Circuit and Open Circuit Protection for LED + and LED- |
| Standby power | $<$ 0.5W at 230V, 50Hz input |

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.

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| RoHS | Yes |
| Status | Preliminary |

Electrical Specifications

I-10V Dimming Curve

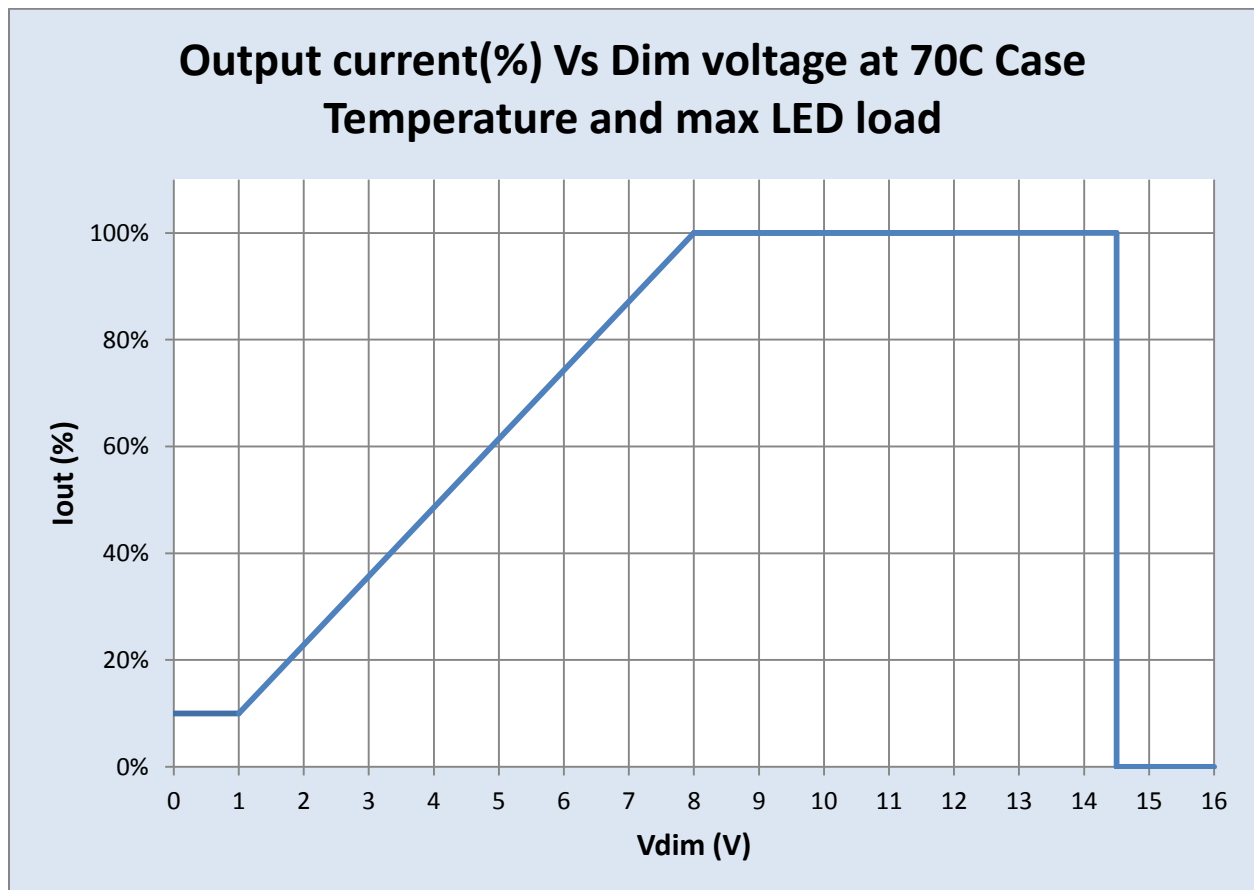
Dimming source current from the driver: $150\mu\text{A} (\pm 3\%)$ (@ $0 < V_{\text{dim}} < 8\text{V}$)

LED Current Tolerance at any value of V_{dim} : $\pm 5\%$ of I_{max}

Minimum Dim Level: 10% - 100%

Guaranteed Shutdown driver with $V_{\text{dim}} > 14.5\text{V}$. Current limit at 3mA typ (4mA Max) at 16V dim.

Guaranteed no shutdown driver with $V_{\text{dim}} < 12\text{V}$



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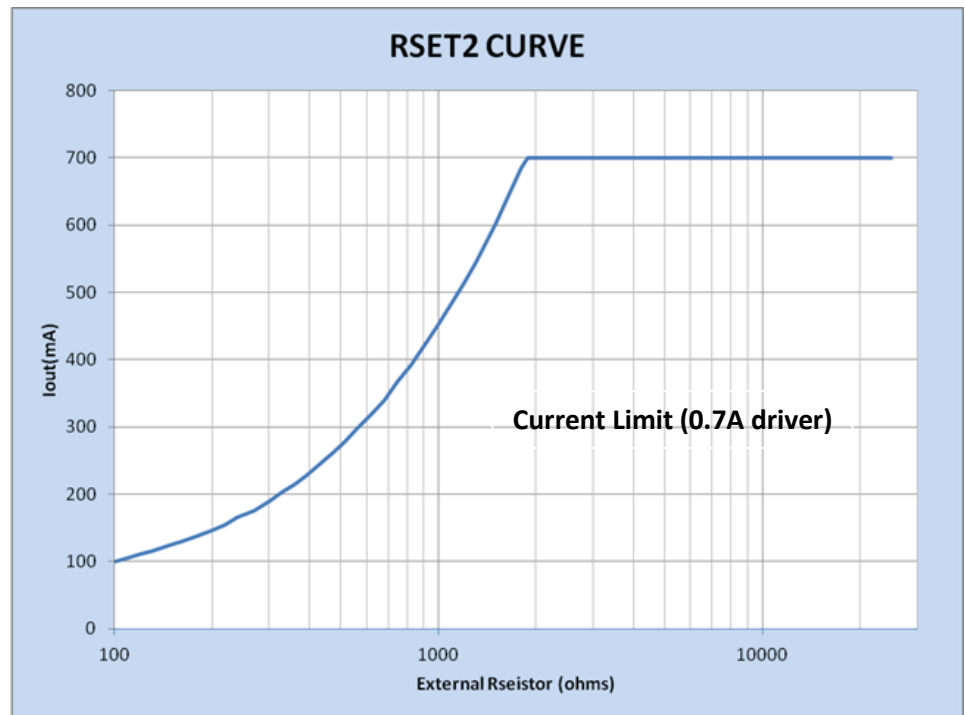
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| Input Frequency | 50/60Hz |
| RoHS | Yes |
| Status | Preliminary |

Electrical Specifications

AOC (Adjustable Output Current) Settings:

LED current tolerance with variation of Rset2 is within $\pm 5\%$ of I_{max}

| Rset(Ohms) | Current (mA) |
|------------|--------------|
| 0 | 100 |
| 100 | 100 |
| 110 | 105 |
| 120 | 111 |
| 130 | 116 |
| 150 | 125 |
| 160 | 130 |
| 180 | 138 |
| 200 | 146 |
| 220 | 155 |
| 240 | 166 |
| 270 | 176 |
| 300 | 190 |
| 330 | 204 |
| 360 | 215 |
| 390 | 228 |
| 430 | 245 |
| 470 | 261 |
| 510 | 277 |
| 560 | 297 |
| 620 | 318 |
| 680 | 340 |
| 750 | 368 |
| 820 | 392 |
| 910 | 422 |
| 1000 | 452 |
| 1100 | 485 |
| 1200 | 515 |
| 1300 | 545 |
| 1500 | 602 |
| 1600 | 632 |
| 1800 | 684 |
| 1880 | 700 |

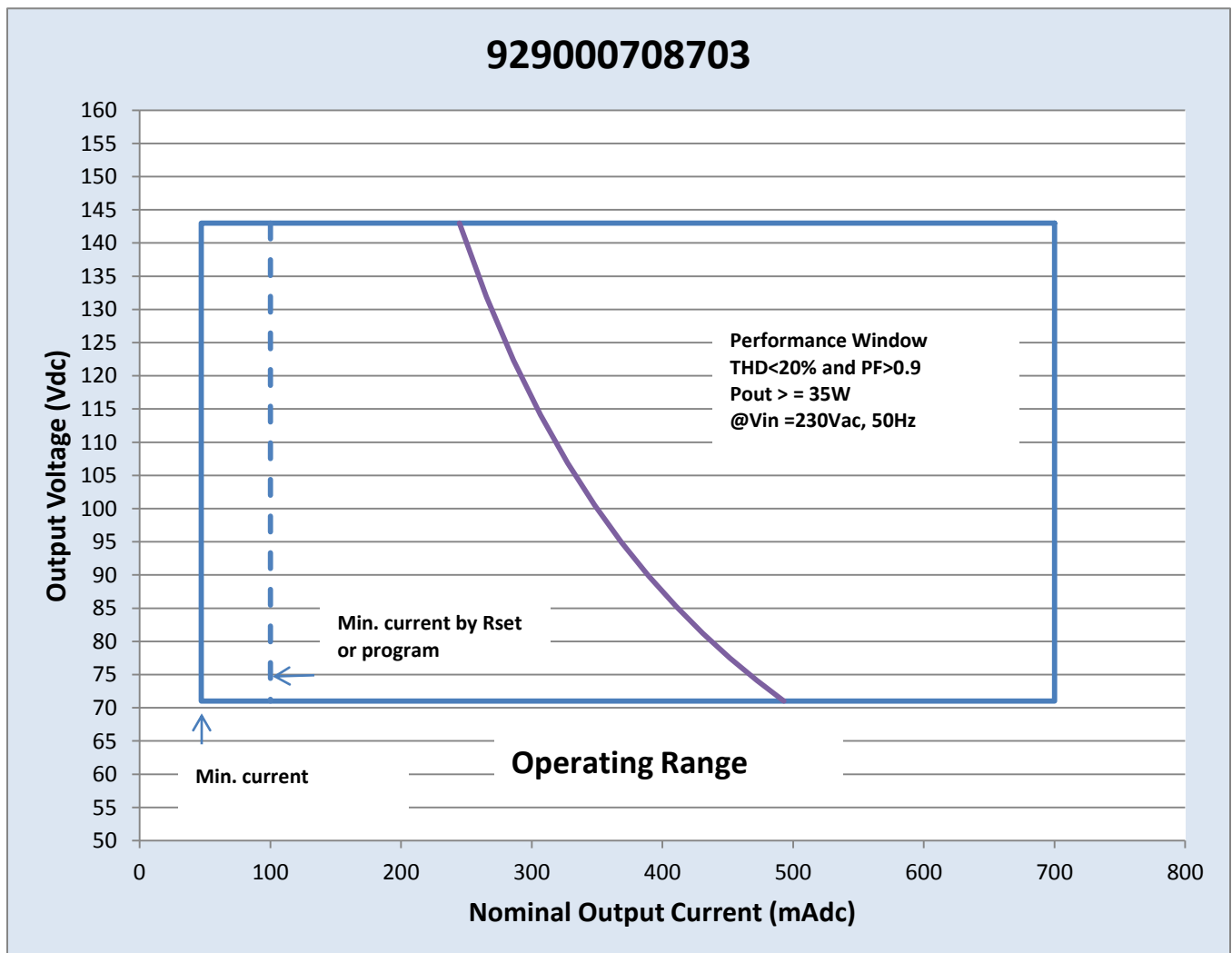




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| Input Frequency | 50/60Hz |
| RoHS | Yes |
| Status | Preliminary |

Electrical Specifications

Operating Window:



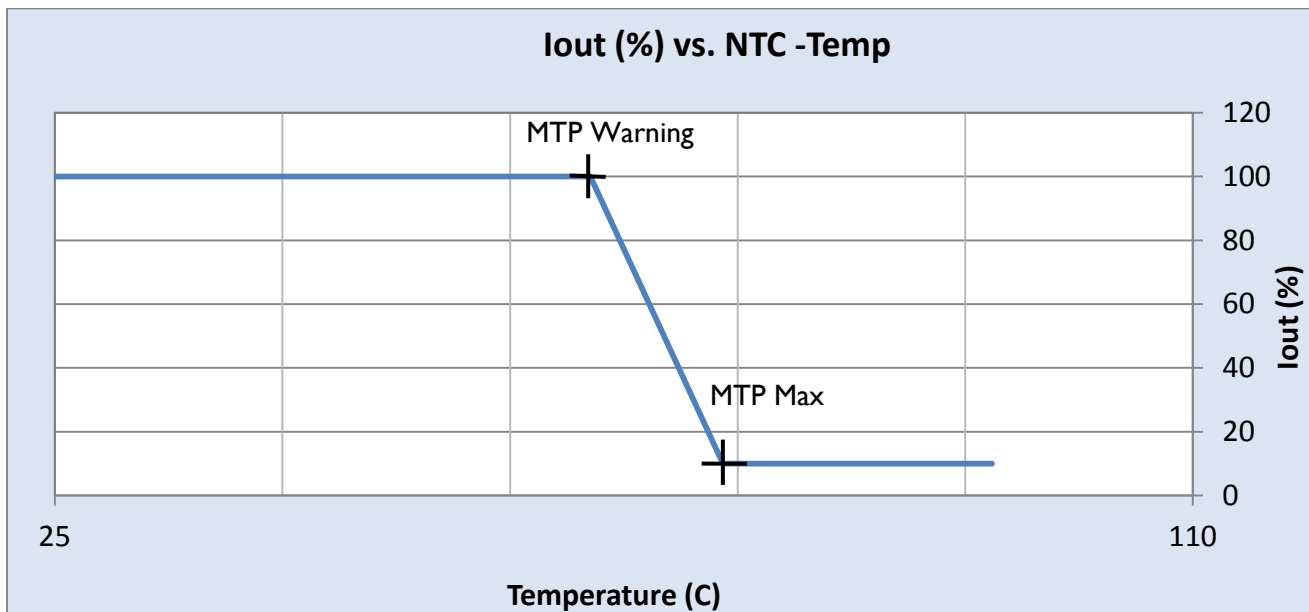
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| RoHS | Yes |
| Status | Preliminary |

Electrical Specifications

Module Thermal Protection

| MTP options | Temperature range: | Default programmed values | Min delta (MTP max-MTP warn) | Dimming range | Missing NTC Signal* |
|-------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------|------------------------------|---------------|---------------------|
| NTC: 15k+390ohms Murata: NCPI5XWI53E03RC | MTP warn: 50C MTP max: 110C | MTP warn: 80C MTP max: 90C | 10C | 100% to 10% | NO |
| NTC:10k Murata: NCPI8XH103J03RB | MTP warn: 50C MTP max: 85C | N/A | 5C | 100% to 10% | YES |
| Philips LED light Engine | Depending on the module connected to the driver See module datasheet | | | 100% to 10% | NO |

* MTP feature has to be enabled to get the missing NTC signal

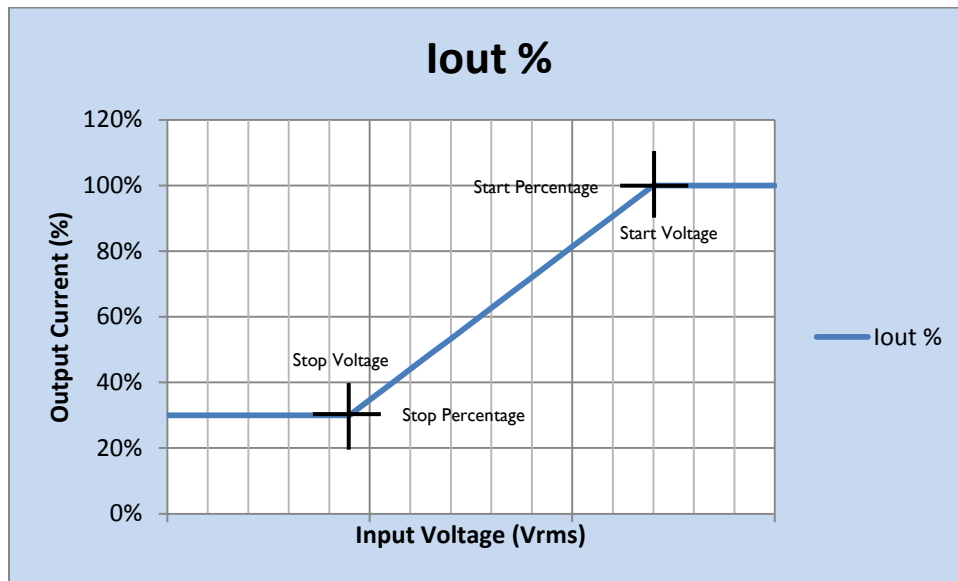


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| Input Frequency | 50/60Hz |
| RoHS | Yes |
| Status | Preliminary |

Electrical Specifications

AmpDim Curve:

| Parameter | Min | Max | Increments |
|------------------|---------|---------|---------------------------------|
| Start Voltage | 170Vrms | 250Vrms | 1Vrms(configurable by software) |
| Stop Voltage | 150Vrms | 230Vrms | 1Vrms(configurable by software) |
| Start Percentage | 30% | 100% | 1%(configurable by software) |
| Stop Percentage | 30% | 100% | 1%(configurable by software) |

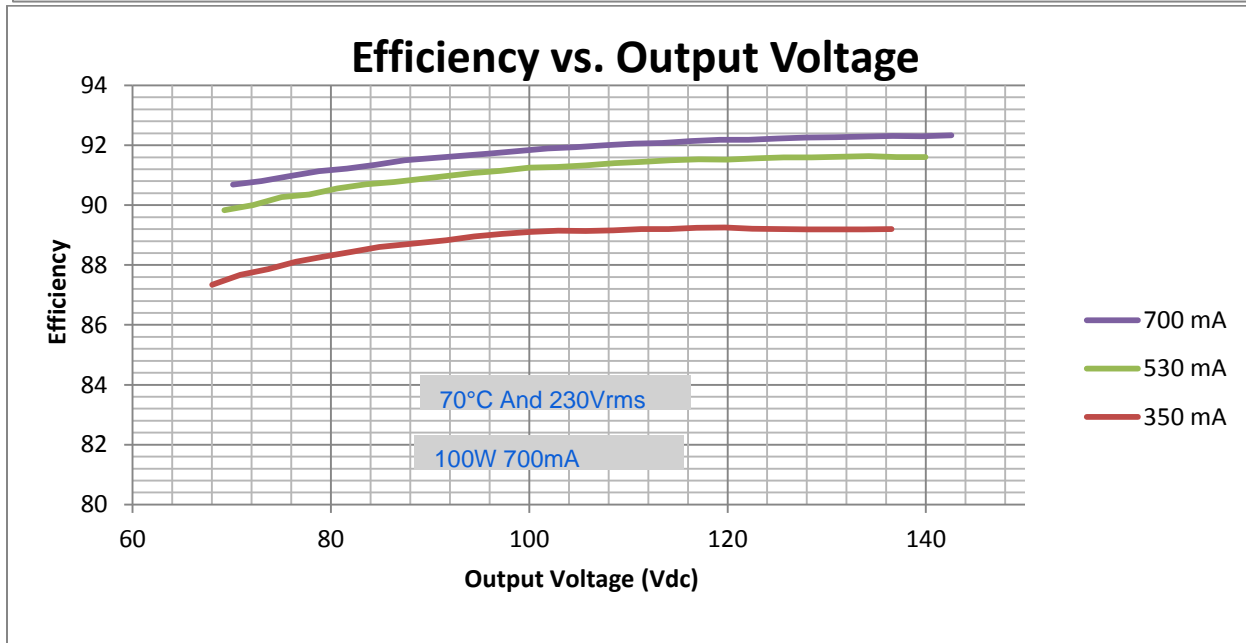
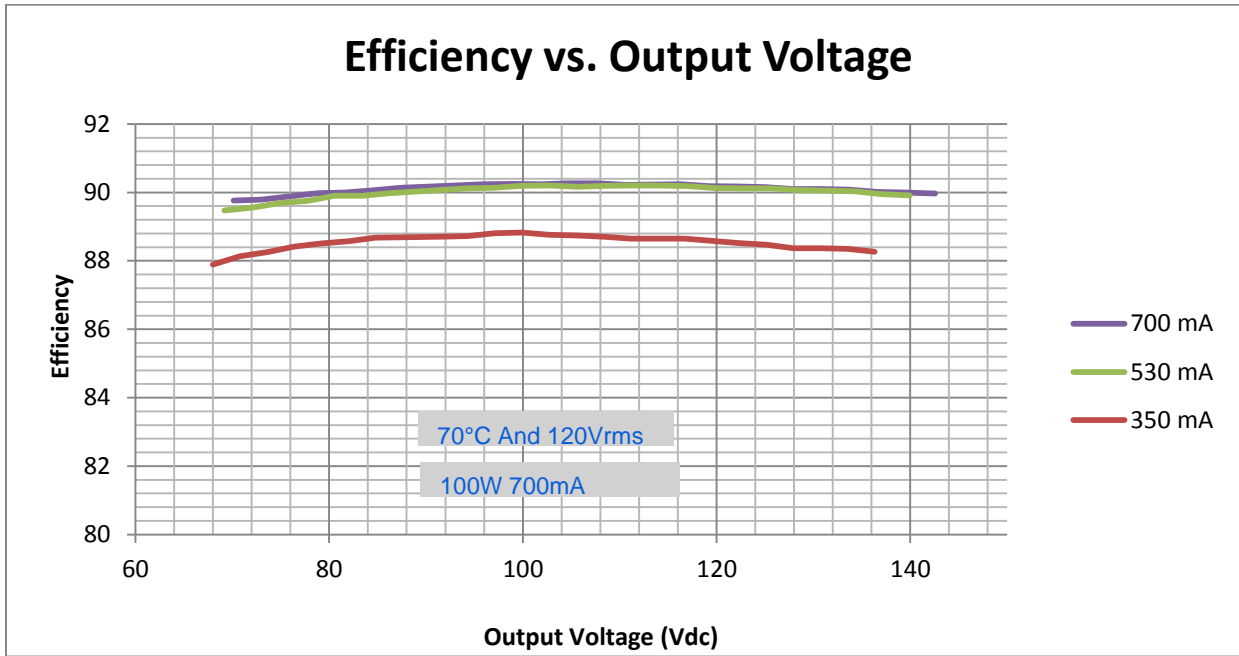


$$\text{Current Tolerance } \Delta I (\%) = (\text{Start Percentage} - \text{Stop Percentage}) \times 5 / (\text{Start Voltage} - \text{Stop Voltage})$$



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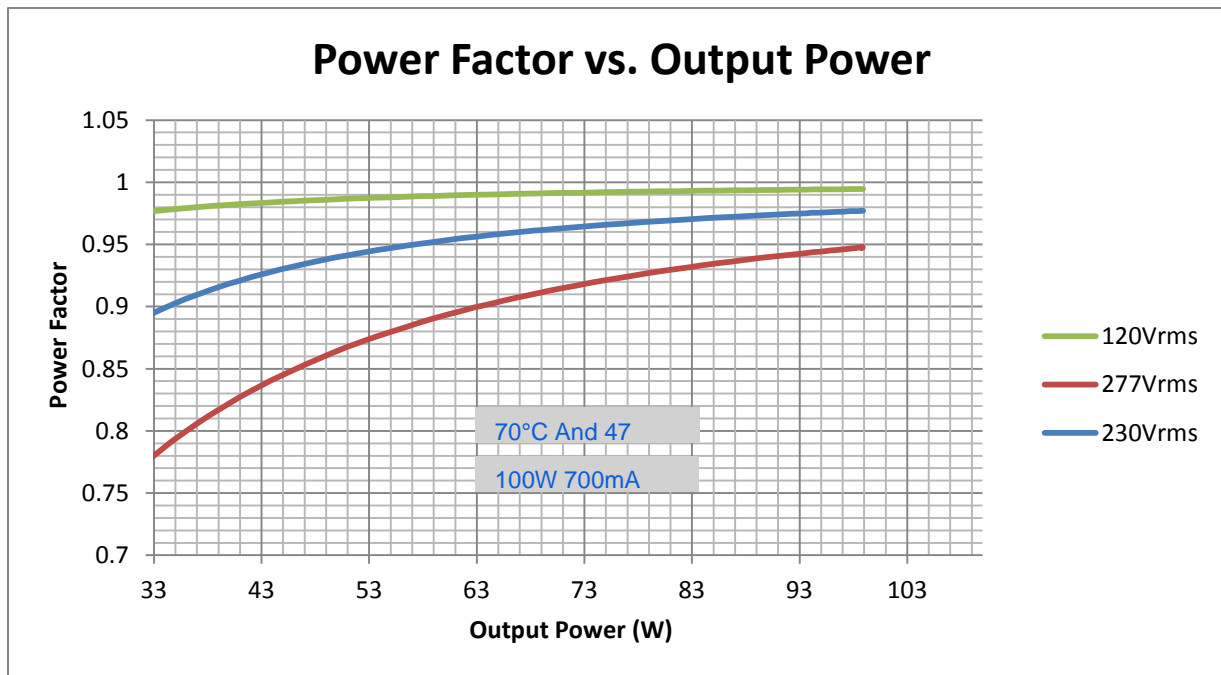
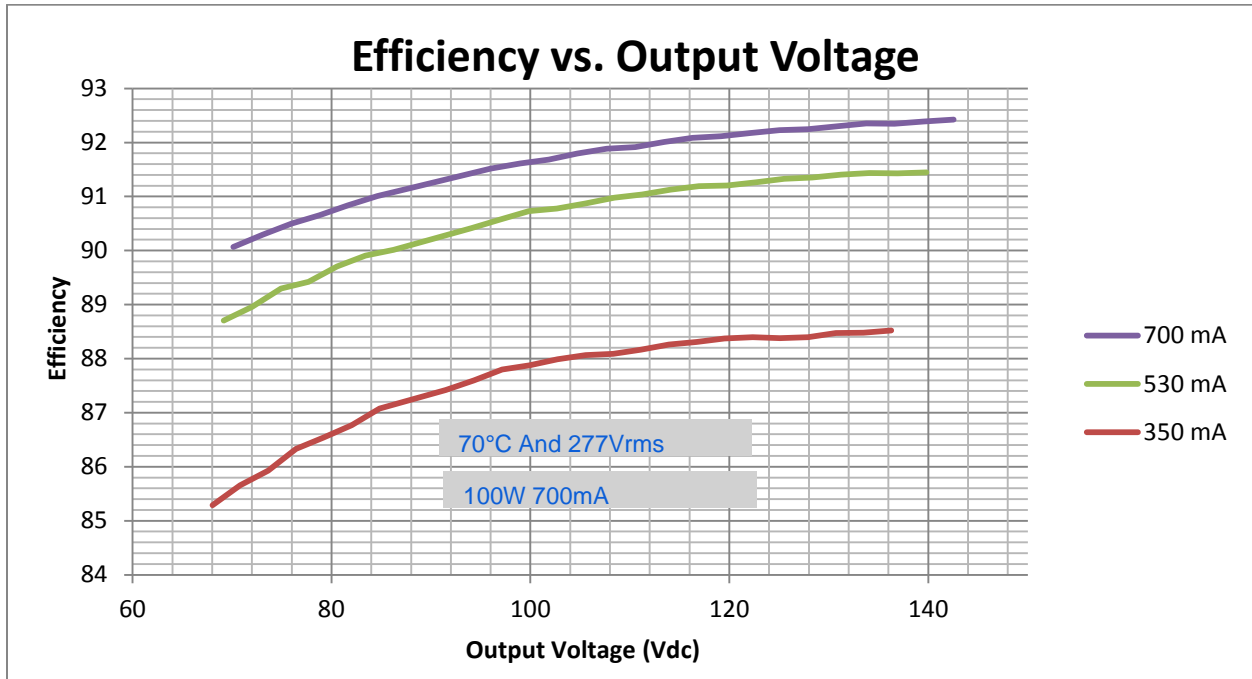
Electrical Specifications





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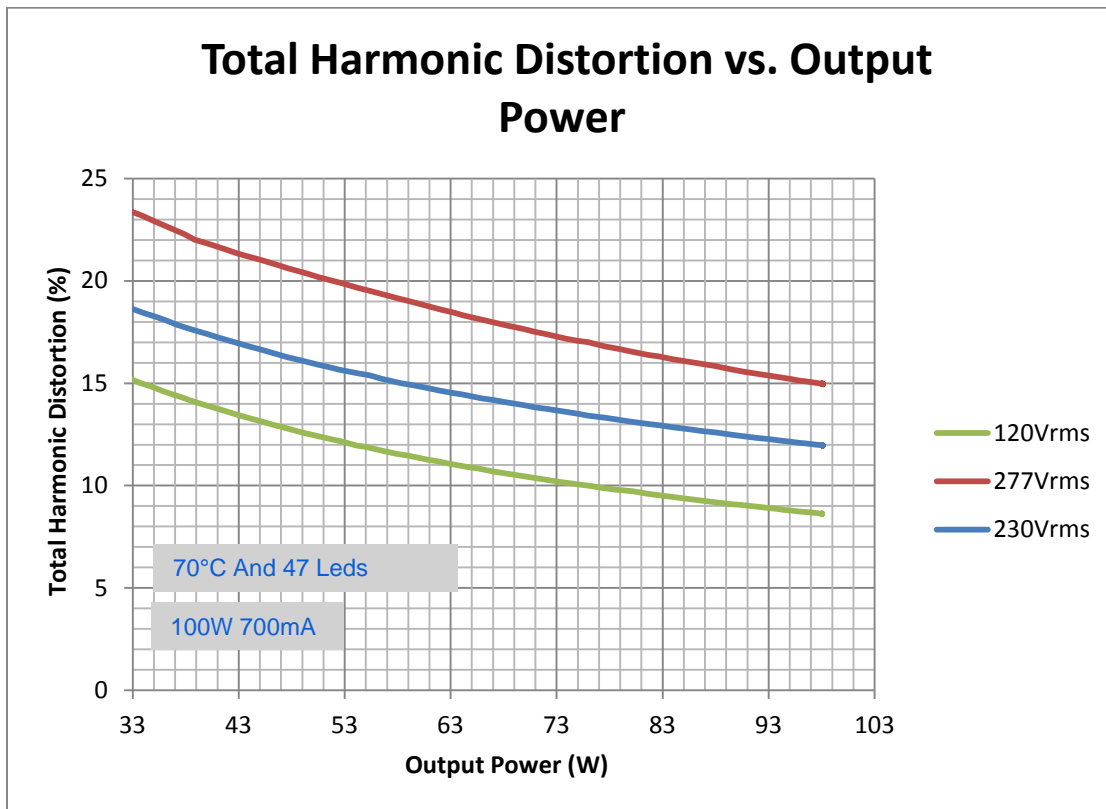
Electrical Specifications



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| RoHS | Yes |
| Status | Preliminary |

Electrical Specifications



Programming Tool:

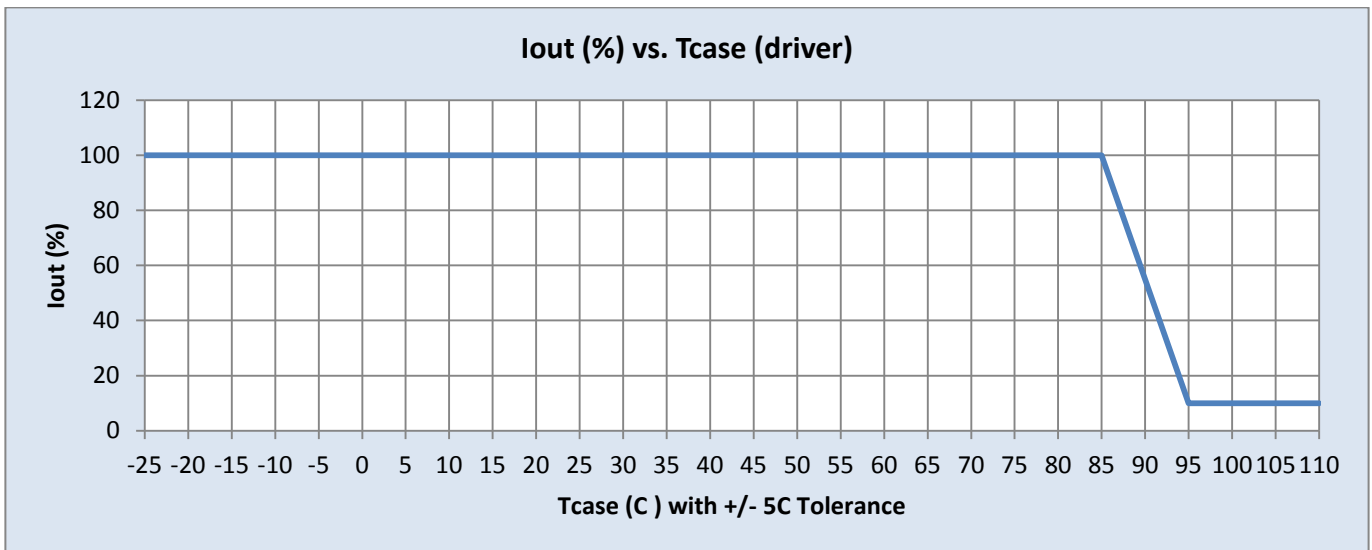
For latest version please check www.philips.com/multione

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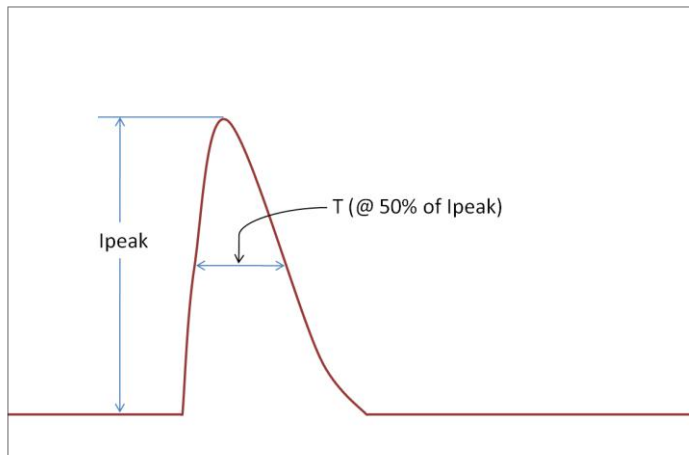
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Electrical Specifications

I_{out} vs. T_{case} of Driver:



Inrush Current Info:



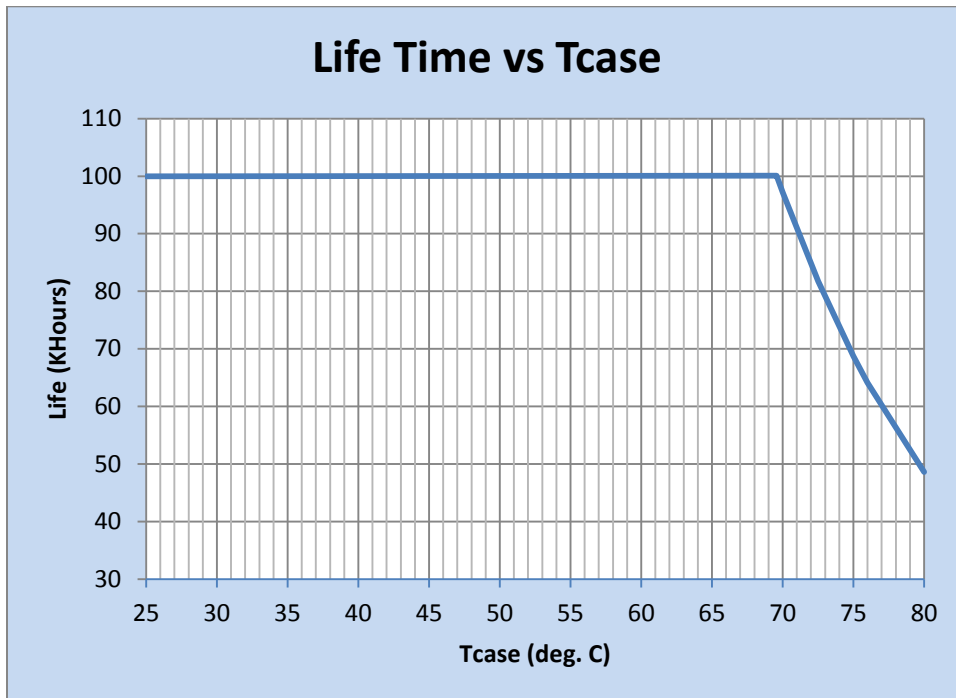
| V _{in} | I _{peak} | T (@ 50% of I _{peak}) |
|-----------------|-------------------|---------------------------------|
| 120 Vrms | 40 A | 150 μs |
| 230 Vrms | 80 A | 150 μs |
| 277 Vrms | 100 A | 150 μs |



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| RoHS | Yes |
| Status | Preliminary |

Electrical Specifications

Lifetime vs. Tcase of Driver:



Failure Rate Info based upon MTBF modeling:

- 90% survivals at end of life @ \leq Tcase 70°C

Failure Rate Info based upon field call rate data:

<0.01% per 1 kHr @ \leq Tcase 70 C



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| Input Frequency | 50/60Hz |
| RoHS | Yes |
| Status | Preliminary |

Electrical Specifications

CE isolation

Basic isolation: 2U+1000V

Double Isolation: 4U+2750V

| Isolation | Input Wires | Output Wires | DALI Wires | 0-10V Wires | Chassis |
|--------------|-------------|--------------|------------|-------------|---------|
| Input Wires | NA | Basic | Basic | Basic | Double |
| Output Wires | Basic | NA | Basic | Basic | Double |
| DALI Wires | Basic | Basic | NA | NA | Double |
| 0-10V Wires | Basic | Basic | NA | NA | Double |
| Chassis | Double | Double | Double | Double | NA |

UL isolation

| Isolation | Input Wires | Output Wires | DALI Wires (Class 1&2) | 0-10V Wires (Class 1&2) | Chassis |
|------------------------|-------------|--------------|------------------------|-------------------------|---------|
| Input Wires | NA | 2xU+1KV | 2.5KVac | 2.5KVac | 2xU+1KV |
| Output Wires | 2xU+1KV | NA | 2.5KVac | 2.5KVac | 2xU+1KV |
| DALI Wires(Class 1&2) | 2.5KVac | 2.5KVac | NA | NA | 2.5KVac |
| 0-10V Wires(Class 1&2) | 2.5KVac | 2.5KVac | NA | NA | 2.5KVac |
| Chassis | 2xU+1KV | 2xU+1KV | 2.5KVac | 2.5KVac | NA |