ADVANCE
by signify

LED Driver

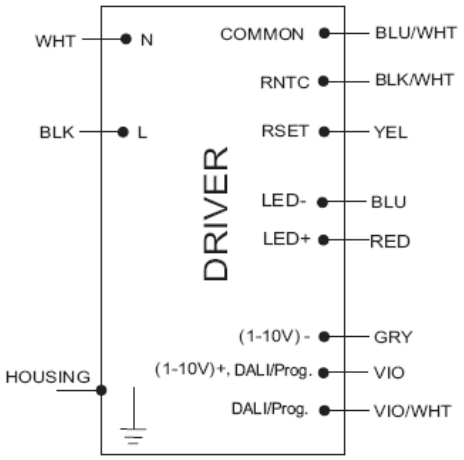
Xitanium

929000702202

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_{pk}/50%-µs)		THD @ Max Load (%)	Power Factor @ Max Load	Surge Protection Common/ Diff (KV)	Weight (Lbs/kgs)	Envir. Protection Rating
150	125 ~ 280	0.350 – 0.70	120 V	230 V	277 V	80 °C	120	200	240	277	165	120 Vin	58/ 140	20	>0.95	3/3	2.8/ 1.27	UL Dry & Damp
			91.5	93.0	93.0		1.4	0.85	0.7	0.6		230 Vin	108/ 140					
												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)	Other Comments
1-10V Isolated	10% ~ 100%		0.05	Dimming source current: 150 µA
DALI	1 ~ 255	10% ~ 100%	0.05	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)

Power Unit Dry & Damp location

7 81087 09153 1

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150W .35-.7A Prog GL sXt

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

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Product Data	
Ambient Temp Range **Corresponding Tcase**	-40C to +55C -15C to +80C
Envir. Protection Rating	UL Dry & Damp
Life @ TC 70C	100000 hr [nom] refer to graph below
Life @ TC 80 C	50000 hr [nom] refer to graph below
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 3rd 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

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.

Section III – UL Conditions of acceptability (UL File# 321253):

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 dimming circuit should be considered as part of the primary circuit in the end-use application. Apart from the DALI and 10 V circuits, dimming can also be achieved via an external non-variable resistor connected to the leads identified as R set and Common. The resistor value is dependent on the desired output current according to the product specification sheet and can range 620 to 1000000 Ohms for 300mA to 700mA output.

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
929000702202	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.

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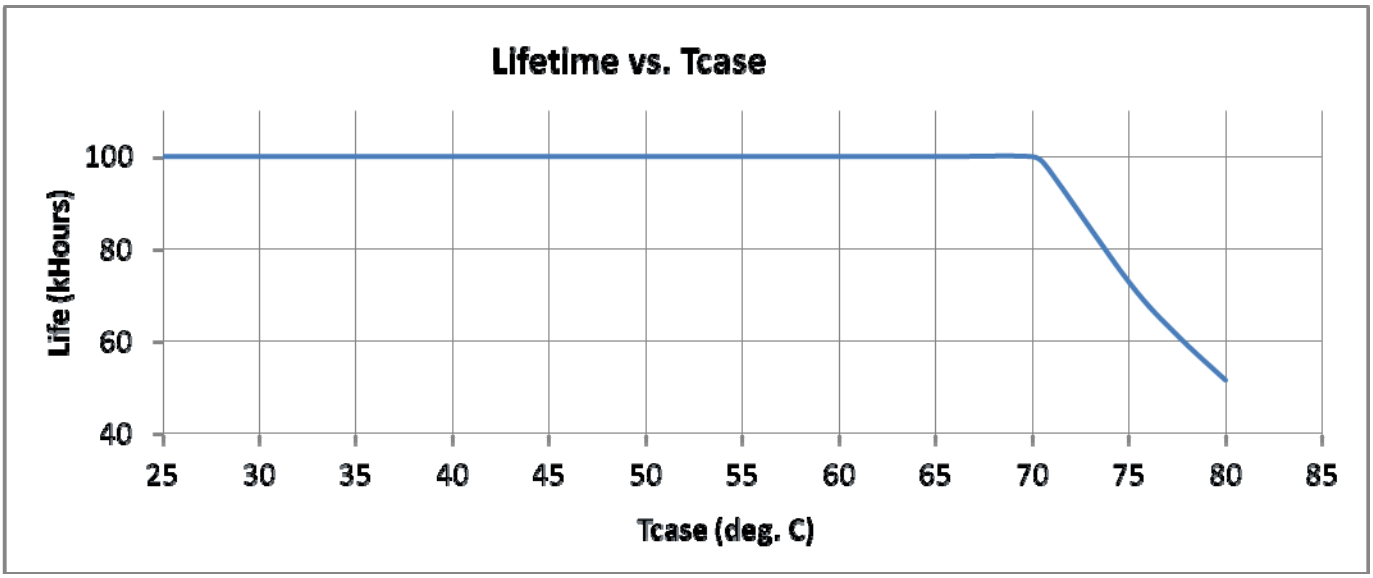
Lifetime vs. Tcase of Driver:



Failure Rate Info:

1. **<0.01% per 1 kHr @<= Tcase 70˚ C**

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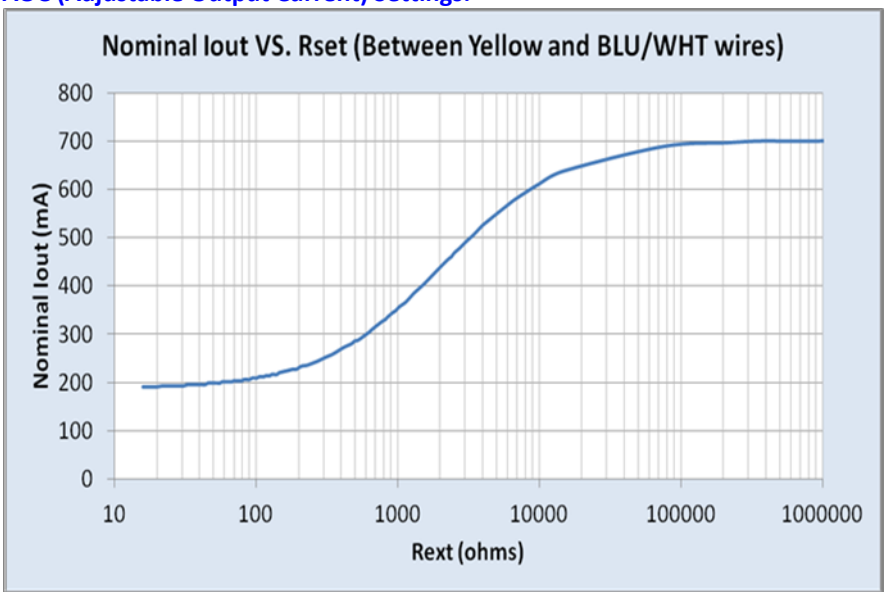
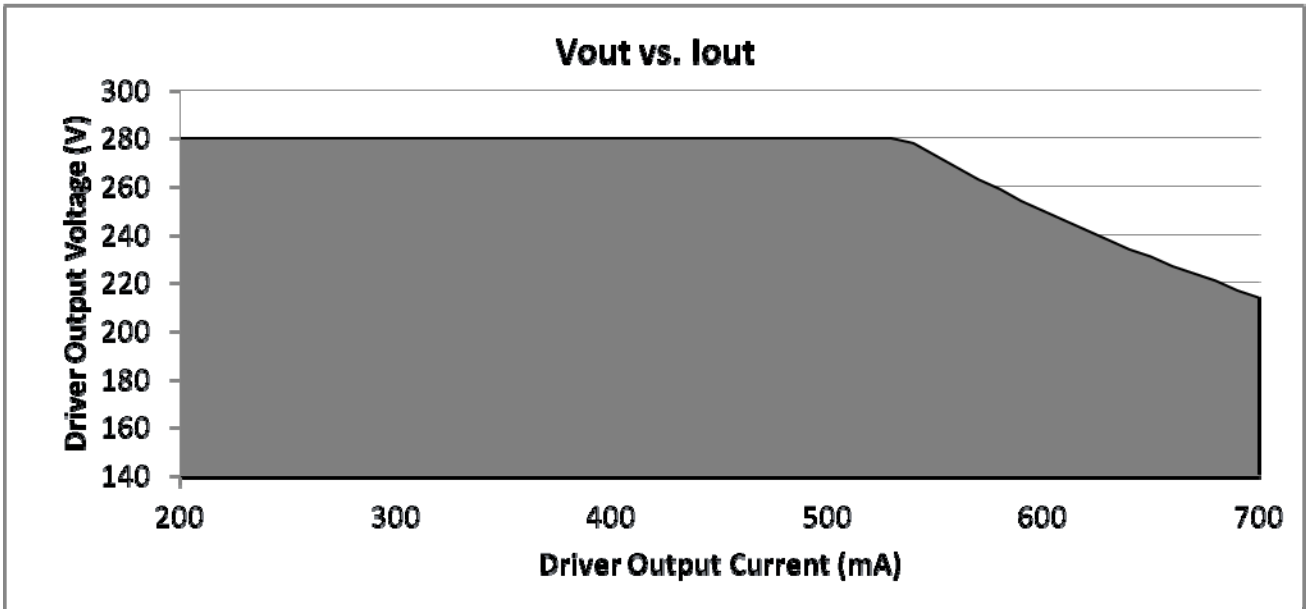
AOC (Adjustable Output Current) Settings:



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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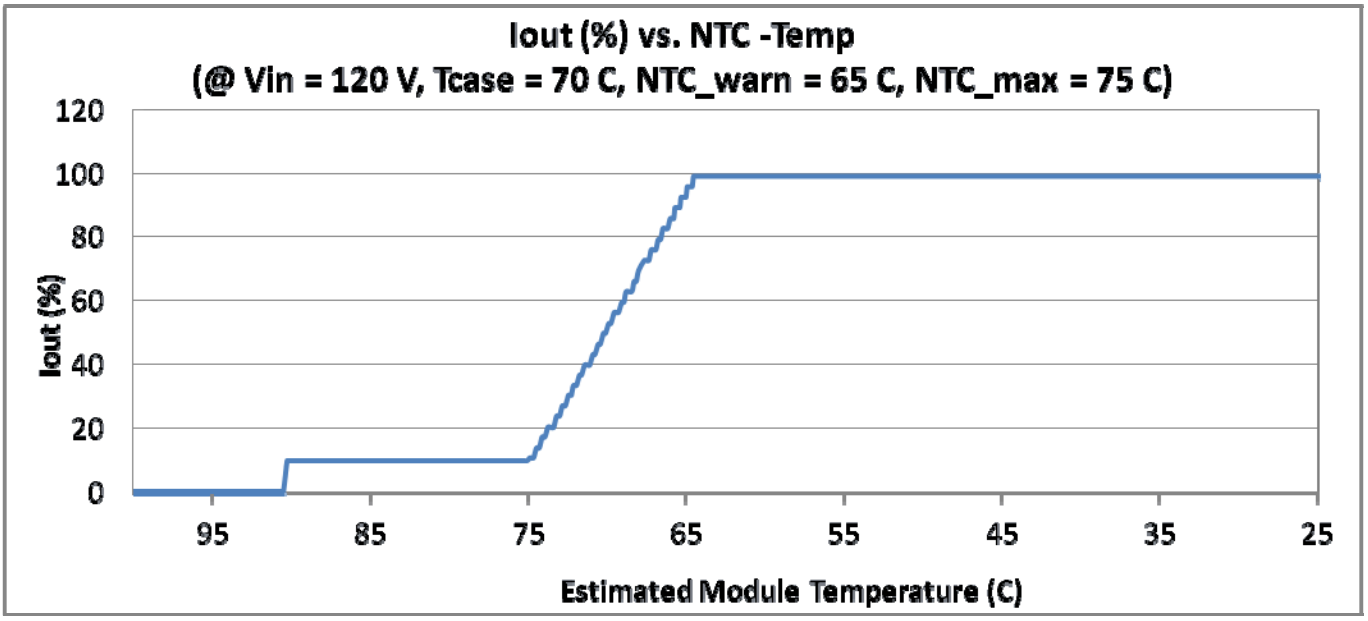
Temperature Profile Settings:
Module Thermal protection can be implemented between 55C to 85 C.
NTC from Murata Part Number NCP18XH103J03RB has to be used.



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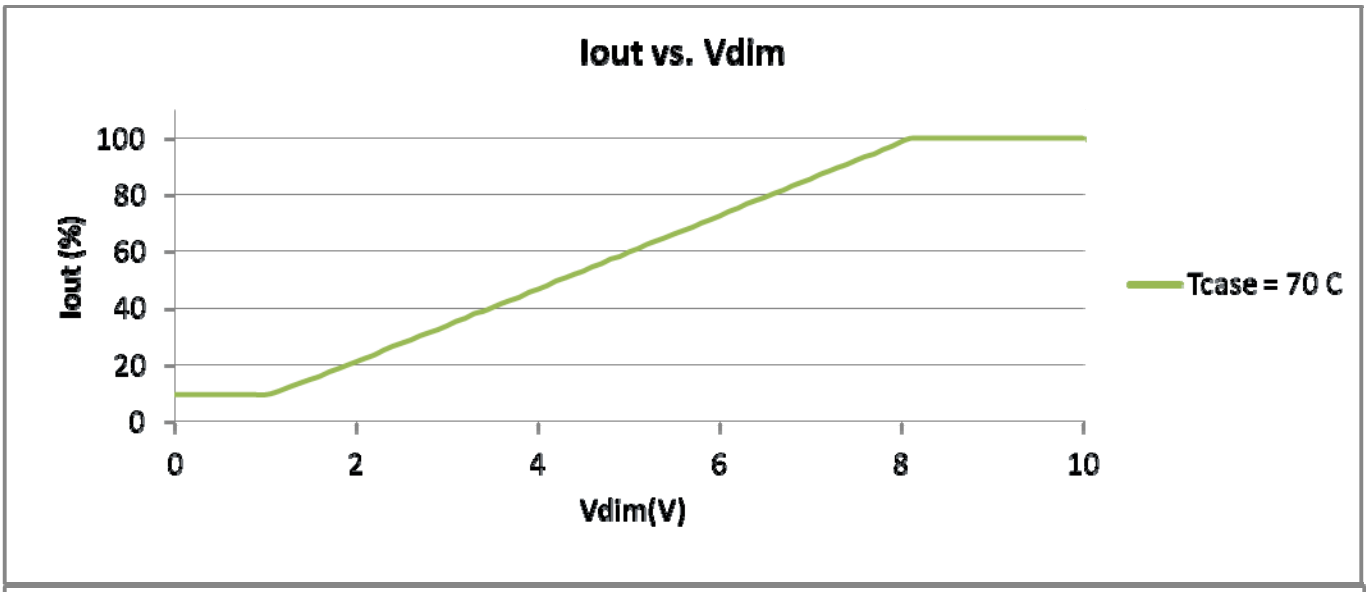

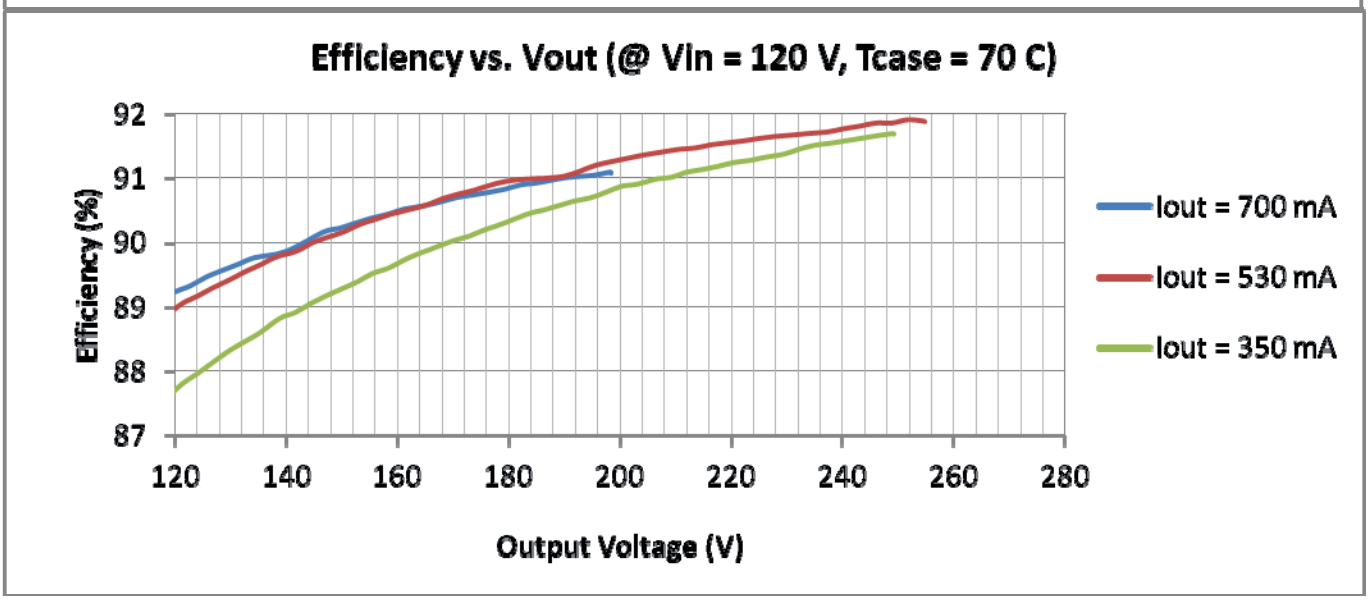

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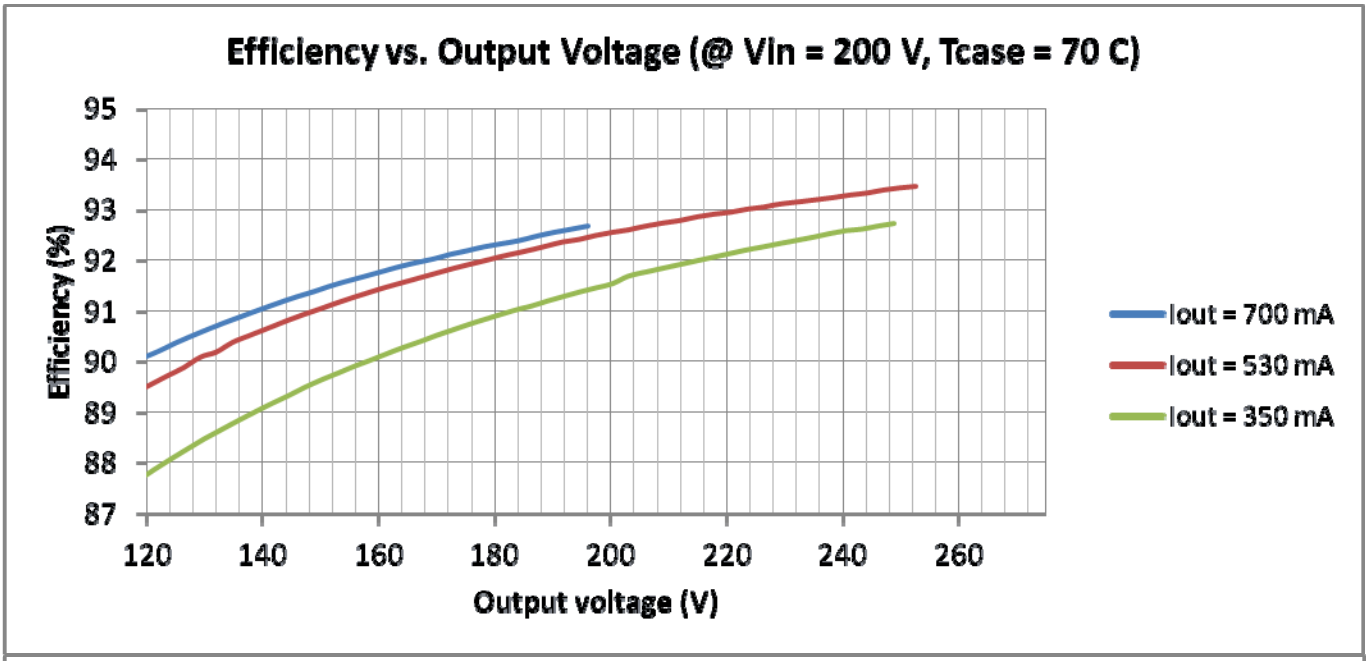

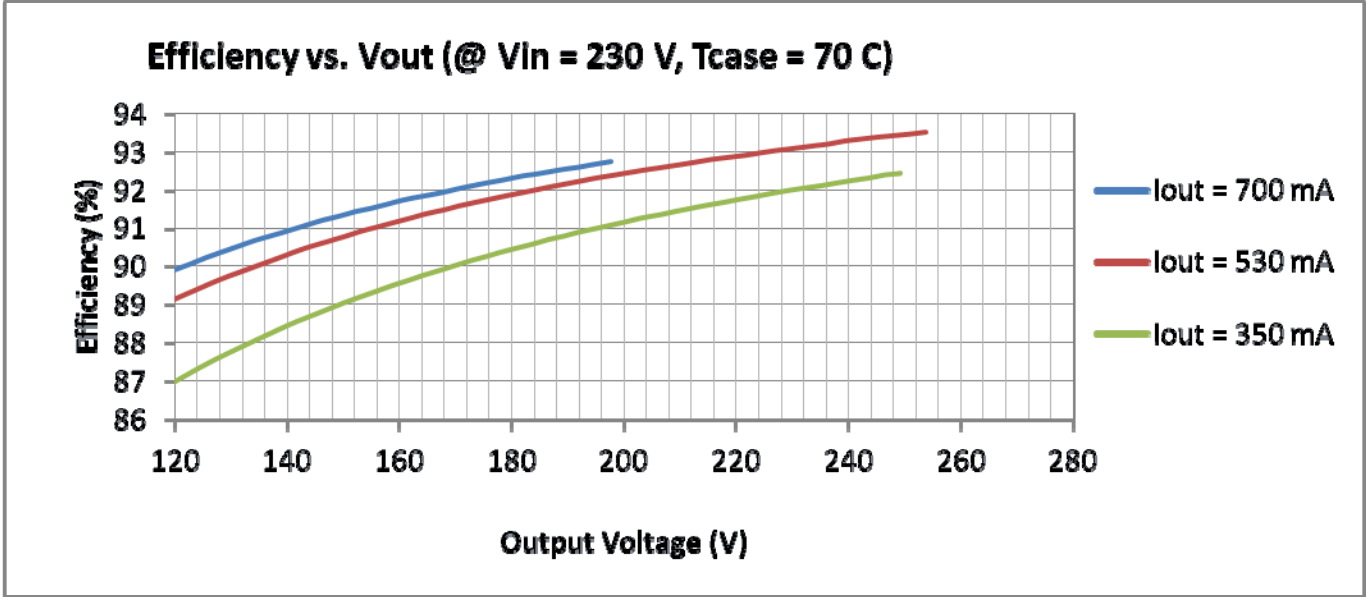

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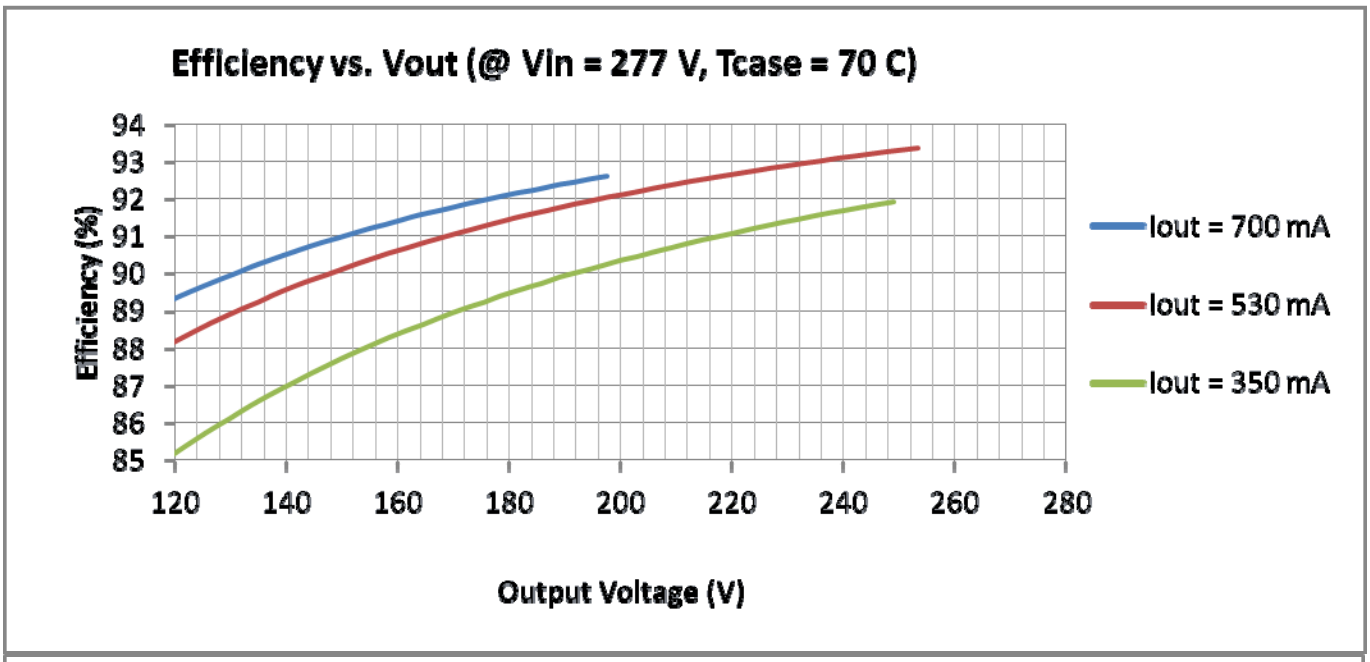

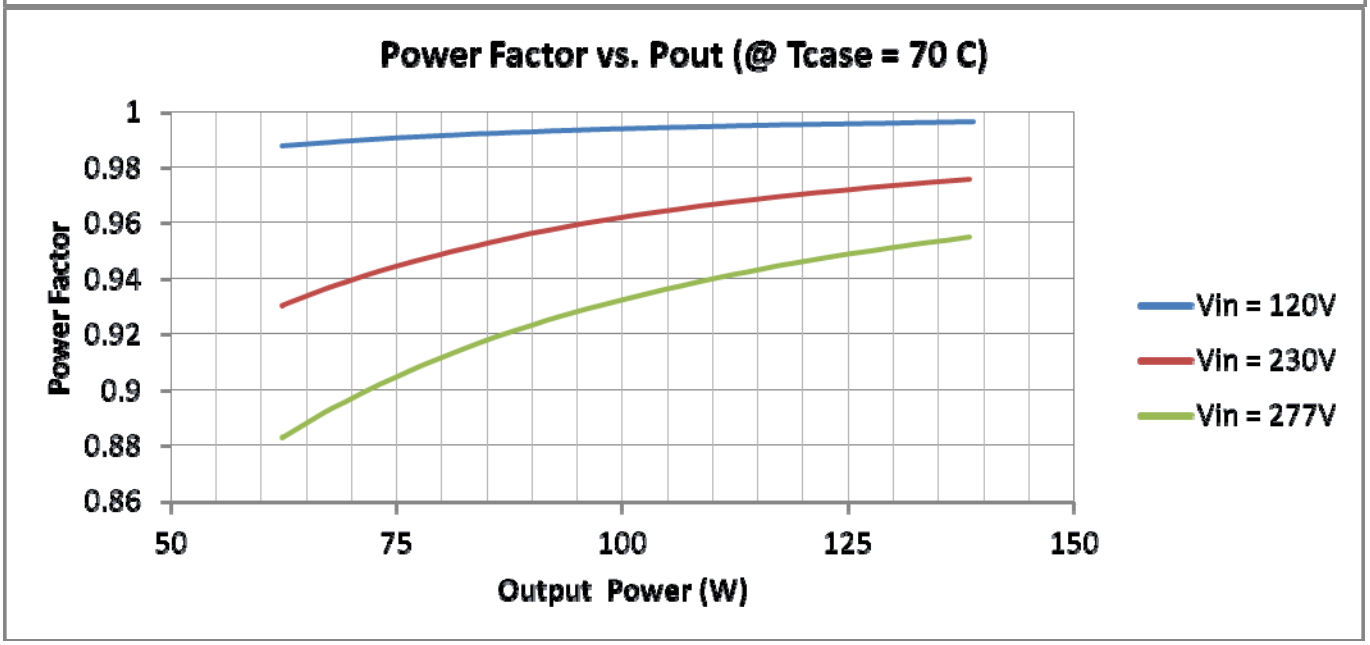

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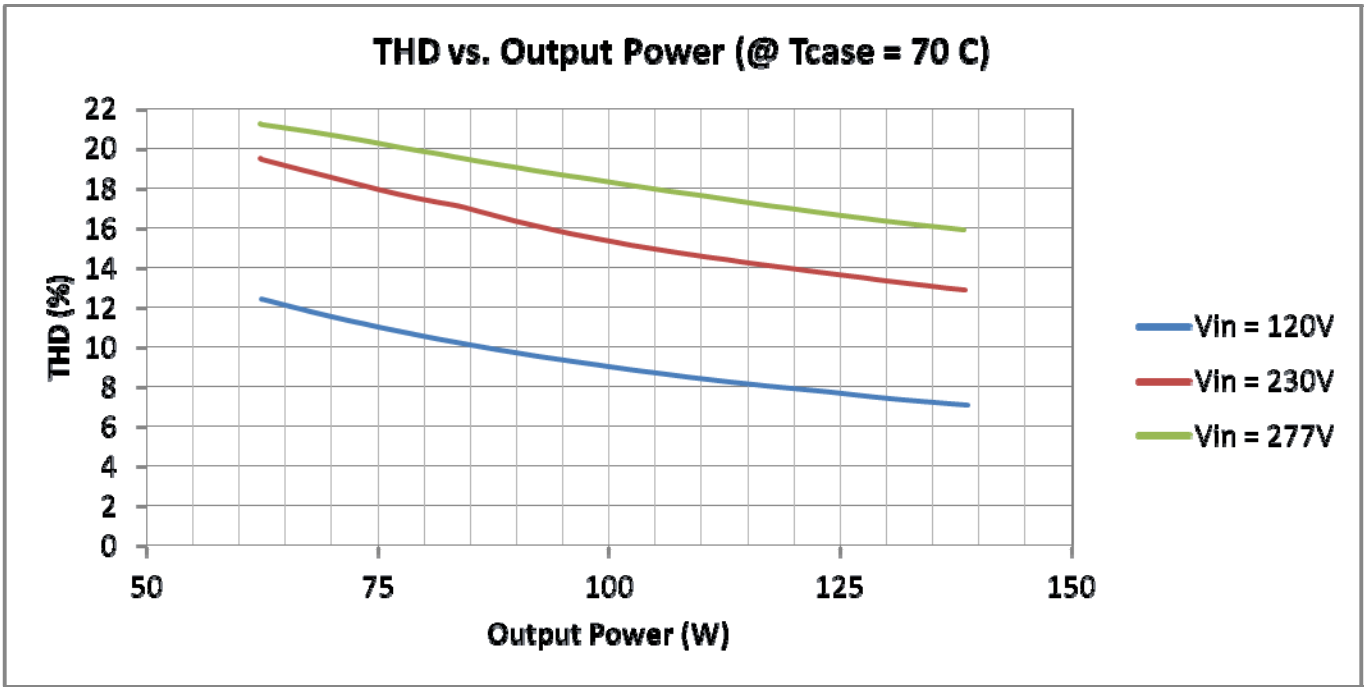

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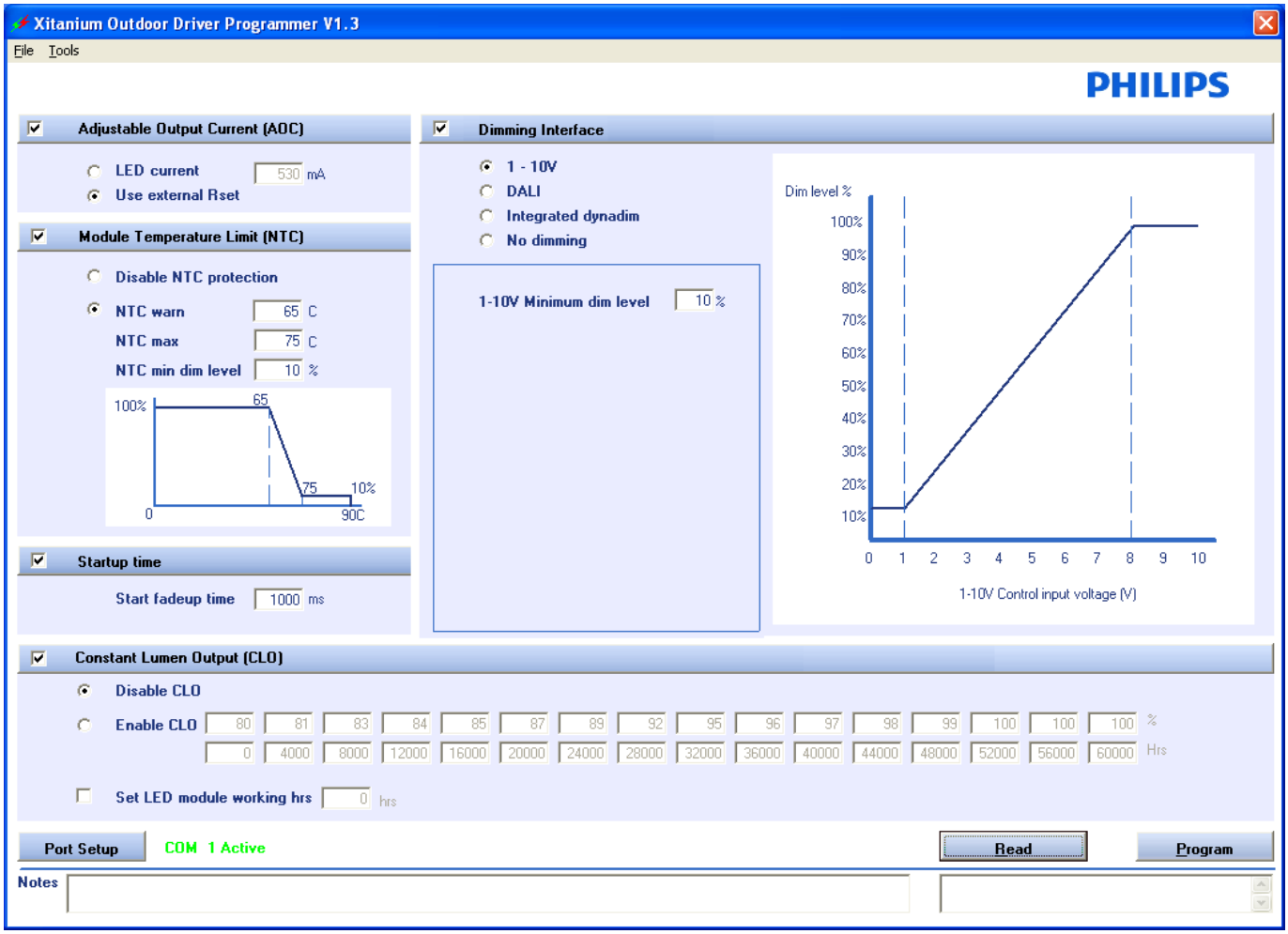
Programming Interface:



Programming Tool:

Refer to Website for downloading tool.

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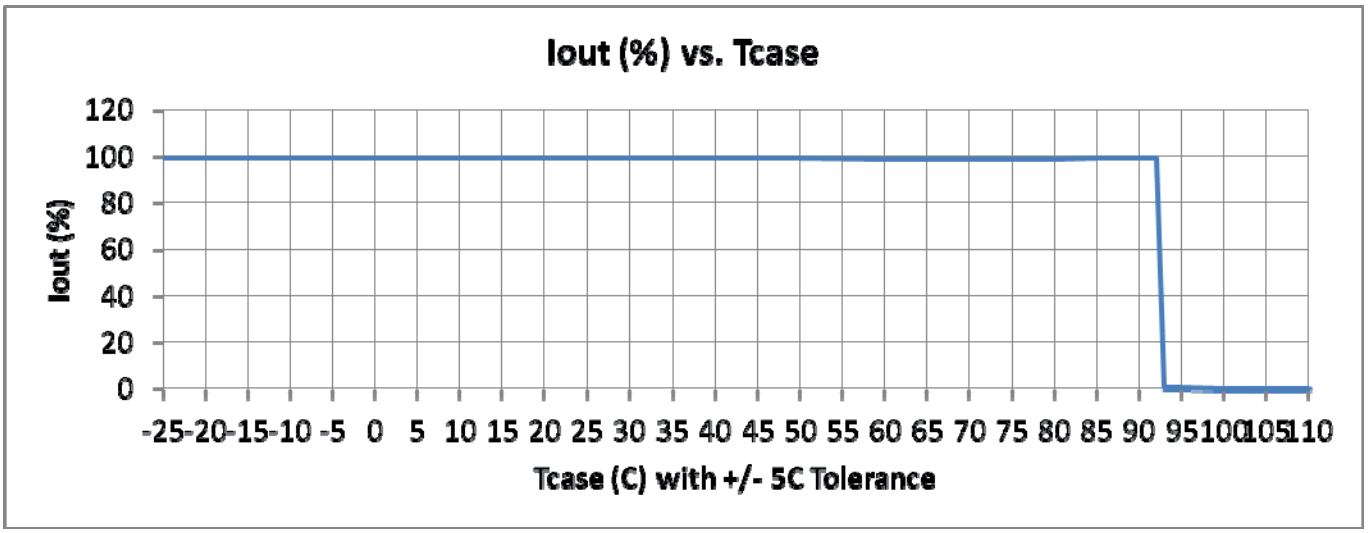
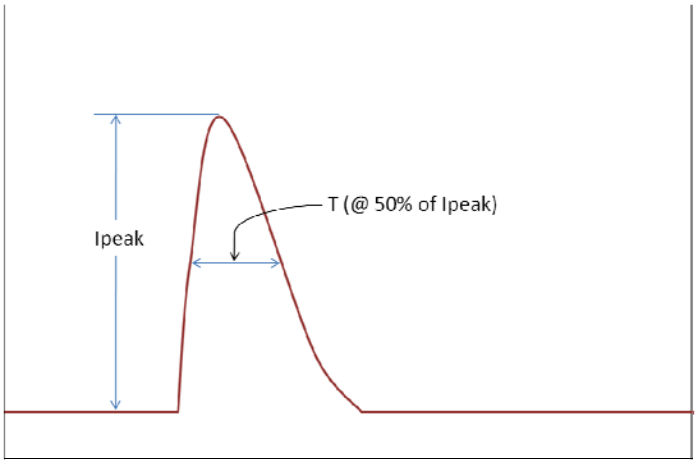


Inrush Current Info:



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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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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