

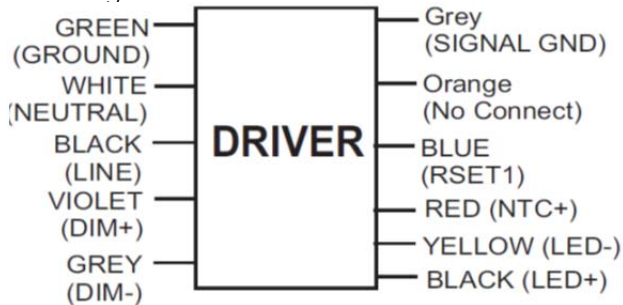
XI025C070V036DNM1

Brand Name	XITANIUM
Description	25W 0.7A 36V 0-10V INT –M SXT
Input Voltage	120 ~ 277V
Input Frequency	50/60Hz
RoHS	Yes
Status	Released

Electrical Specifications

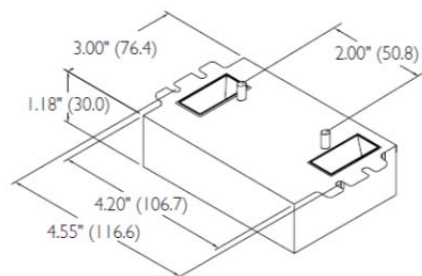
Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency@ Max Load		Max Case Temp. (°C)	Input Current (Arms)		Max. Input Power (W)	Inrush Current (A _{peak} /50%-μs)		THD @ Max Load (%)	Power Factor @ Max Load	Surge Protection Common/Diff (KV)	Weight (Lbs/kgs)	Envir. Protection Rating
			120V	277V		120 V	277V		120 Vin	277 Vin					
25	18 ~ 36	0.20 – 0.70	120V	277V	75 °C	120 V	277V	30	120 Vin	277 Vin	<20 See graph	>0.90 See graph	2.5/2.5	0.6/0.27	UL damp and dry
			86	88		0.25	0.11		27/ 120	57 / 120					

Wire Diagram



Dimming Method	Dimming Range	Minimum Output Current (A)	Other Comments
1-10V Isolated	7% ~ 100%	0.047	Dimming source current: 0.15 - 1 mA

Enclosure



	In. (mm)
Case Length	4.2 (106.7)
Case Width	3.0 (76.4)
Case Height	1.18 (30.00)
Mounting Length	4.55 (116.6)
Mounting Width	2.0 (50.8)

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Product Data

Order code	XI025C070V036DNM
Full product code	XI025C070V036DNM
Full product name	XITANIUM 25W 0.7A 36V 0-10V INT -M SXT
Net weight per piece	0.27 KG / 0.6 lbs
Interfaces	1-10V, AOC (via Rset), MTP (via RNTC)
Ambient Temp Range	-20C to +55C
Corresponding Tcase	-0C to +75C
0-10V Dimming Specifications	0.15 – 1mA source current from driver
Line Voltage	120-277V
Line Current	0.25A @ 120V, 0.11A @ 277V
Line Frequency	50/60Hz
Min. Mains voltage operational	108 V [min]
Max. Mains voltage operational	305V [max]
Envir. Protection Rating	UL damp and dry
Life @ TC 70C	refer to graph below
Life @ TC 80C	refer to graph below
Suitable for Outdoor use?	No
Max TC	75C
Input Over-voltage	Can survive input over-voltage stress of 320VAC for 48 hours and 350VAC for 2 hours
Earth leakage current	<=0.75mArms
Output Current ripple	30% @ 700 mA (ripple = pk-pk/avg)
THD total	Refer to graph
PF @ Max Load	Refer to graph
Wire Isolation	Refer to Isolation Table
Isolation between input and output	Refer to Isolation Table
Isolation towards housing	Refer to Isolation Table
Protections	Short Circuit and Open Circuit Protection for LED + and LED-
Standby power	NA

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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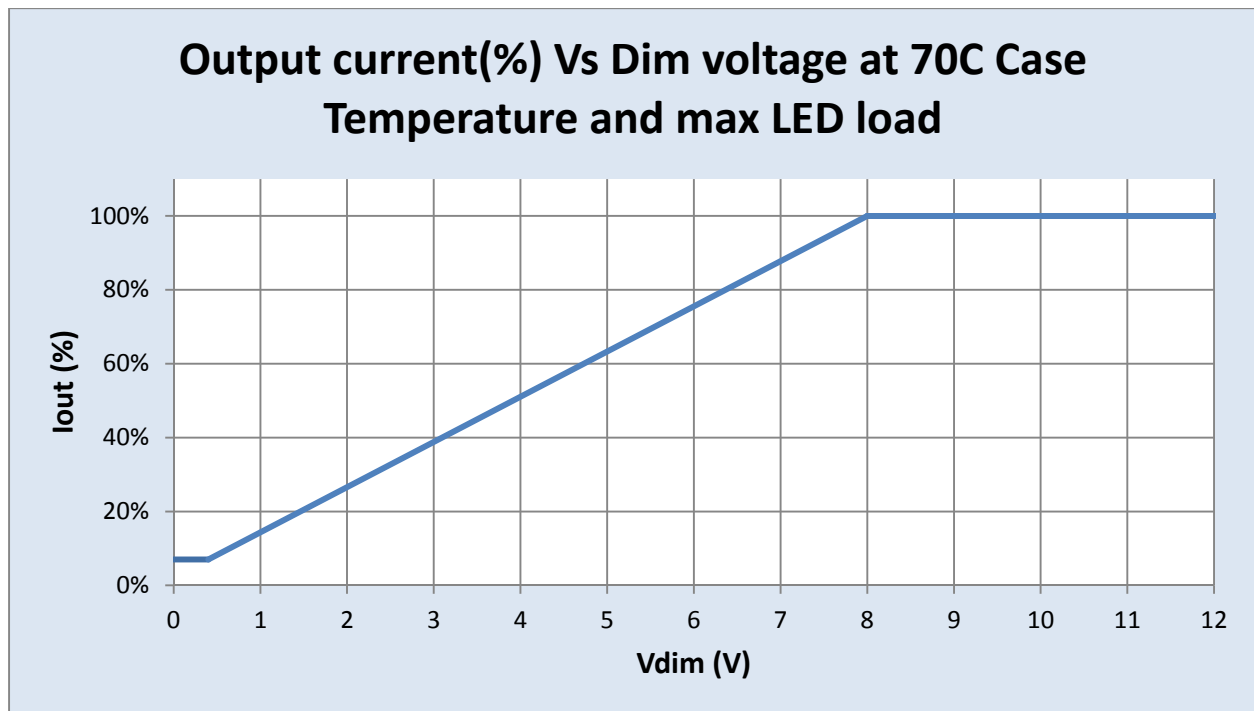
Electrical Specifications

I-10V Dimming Curve

Dimming source current from the driver: 0.15 ~ 1mA (@ $0 < V_{dim} < 8V$)

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

Minimum Dim Level: $\approx 7\%$



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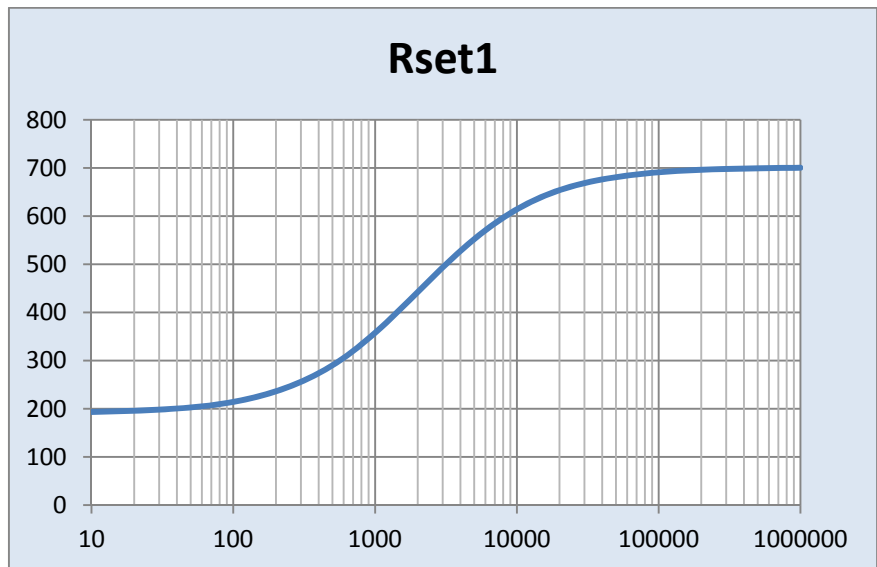
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AOC (Adjustable Output Current) Settings:

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

Rset(Ohms)	Current (mA)
0	190.797
20	195.71
39	200.29
180	231.852
270	249.999
300	255.74
620	308.978
750	327.141
910	347.311
1000	357.73
1100	368.609
3300	505.226
3900	524.977
4300	536.073
4700	545.856
9100	607.177
18000	648.97
22000	657.681
100000	691.07
560000	699.498
820000	700



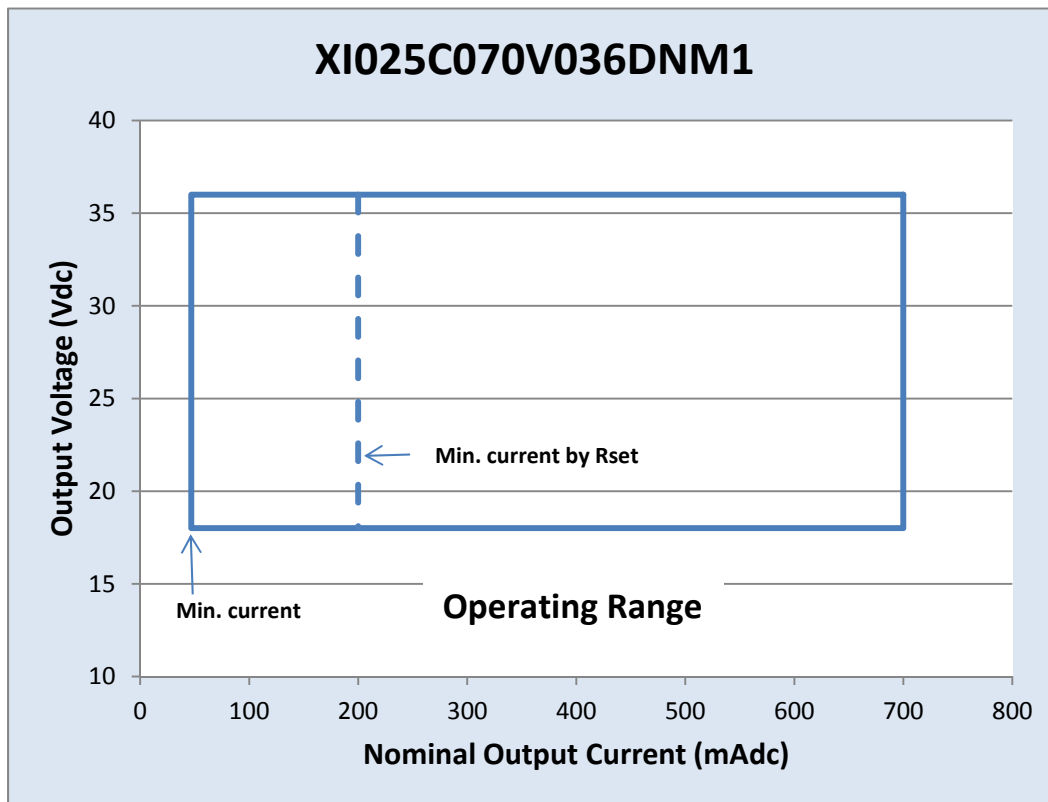
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Operating Window:



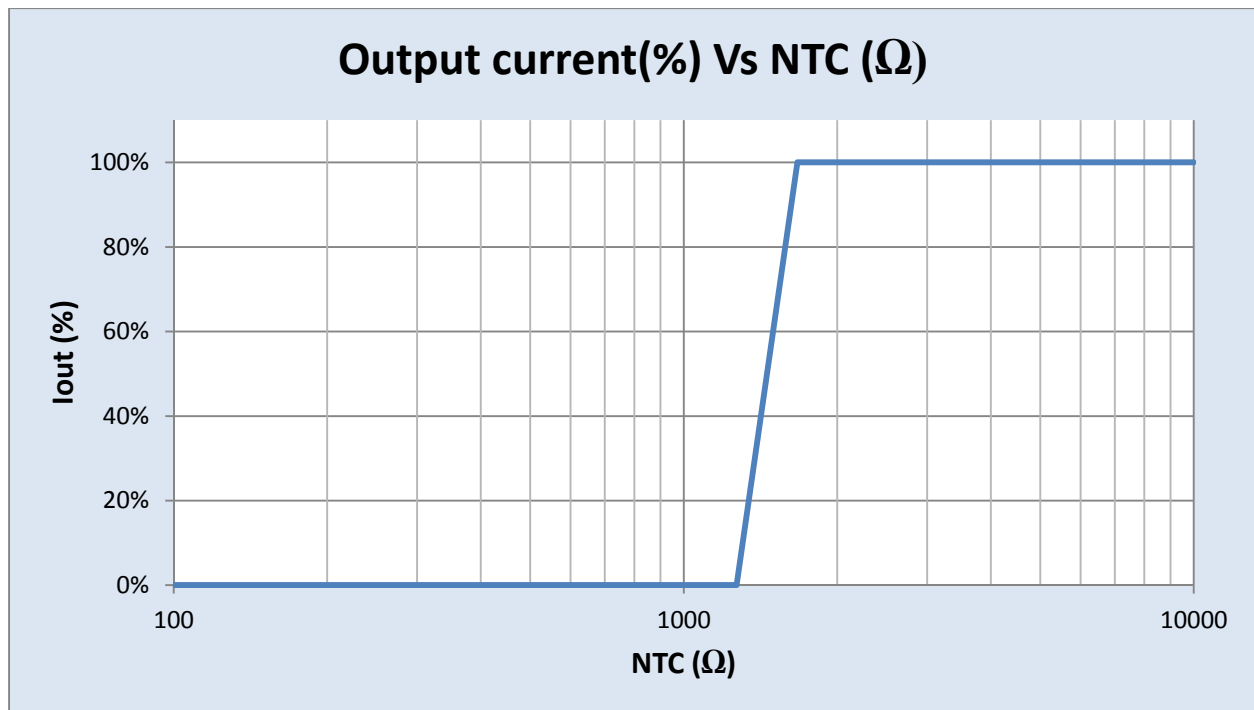
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Module Thermal Protection:



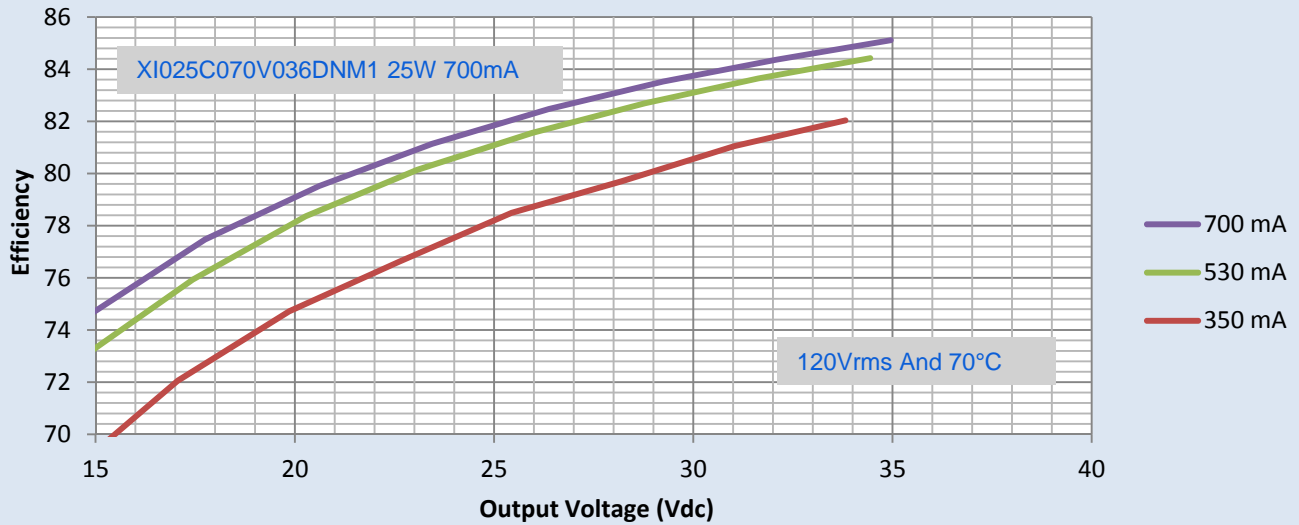
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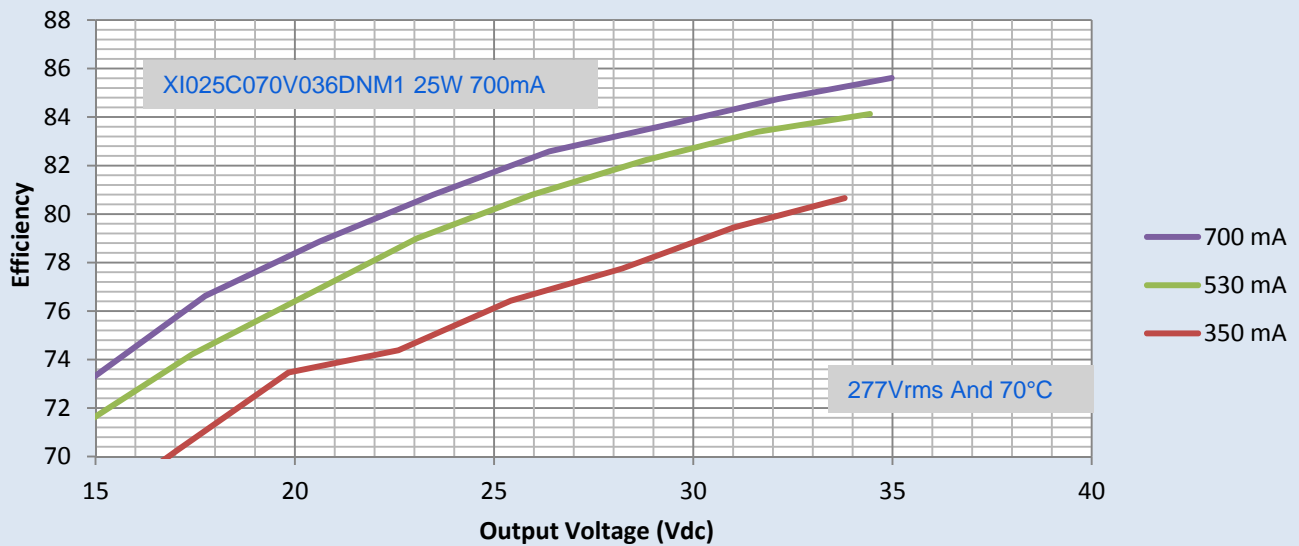
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Efficiency vs. Output Voltage



Efficiency vs. Output Voltage



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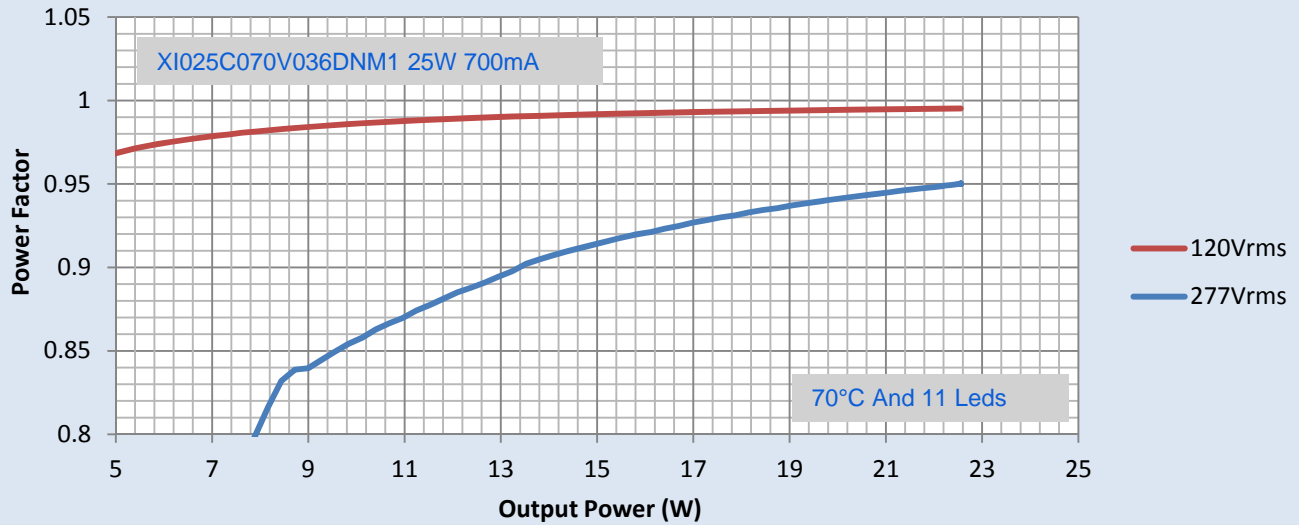


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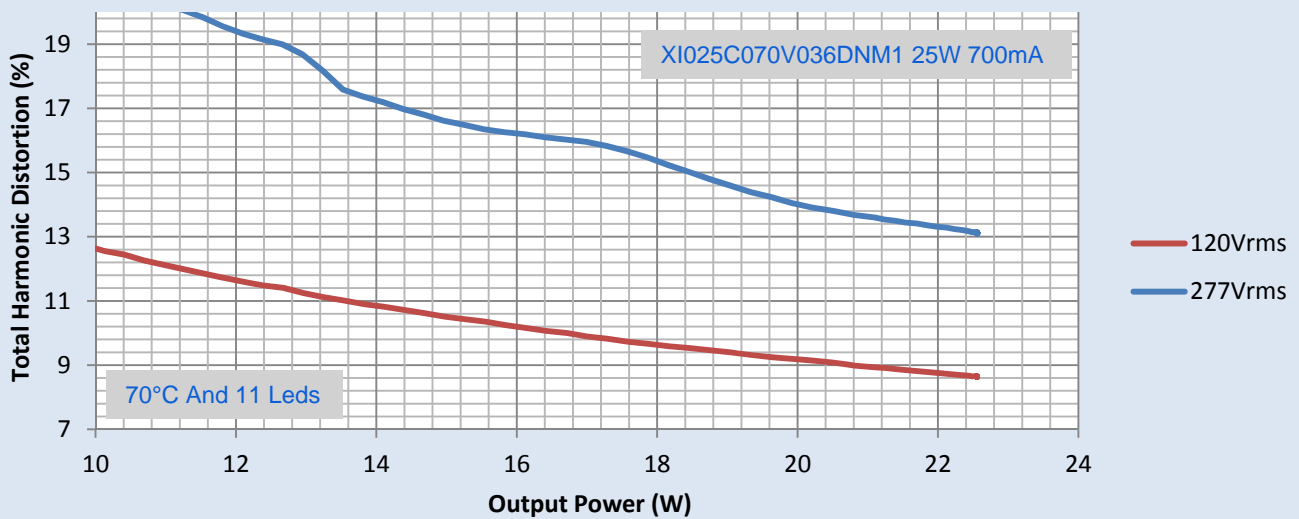
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Power Factor vs. Output Power



Total Harmonic Distortion vs. Output Power



Iout vs. Tcase of Driver:

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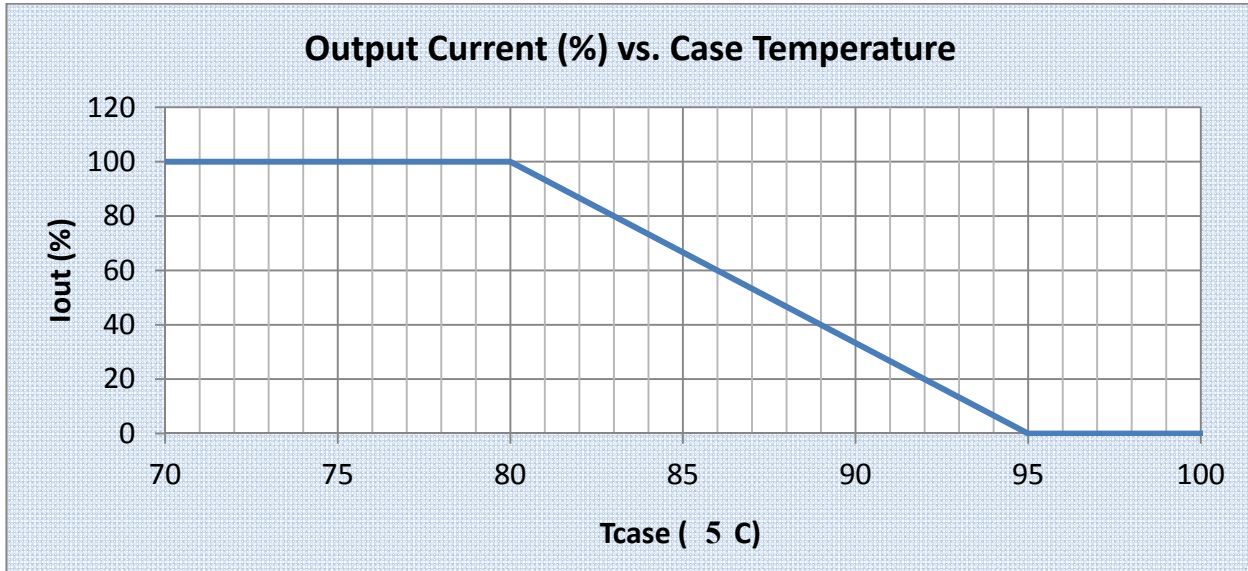
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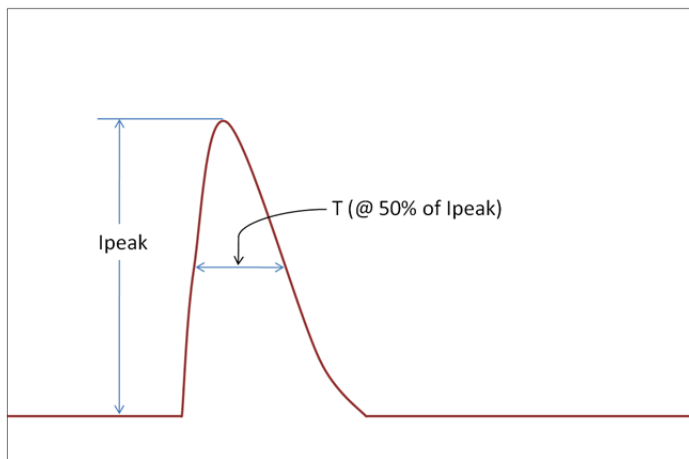
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Inrush Current Info:



Vin	Ipeak	T (@ 50% of Ipeak)
120 Vrms	27 A	120 μ s
277 Vrms	57 A	120 μ s

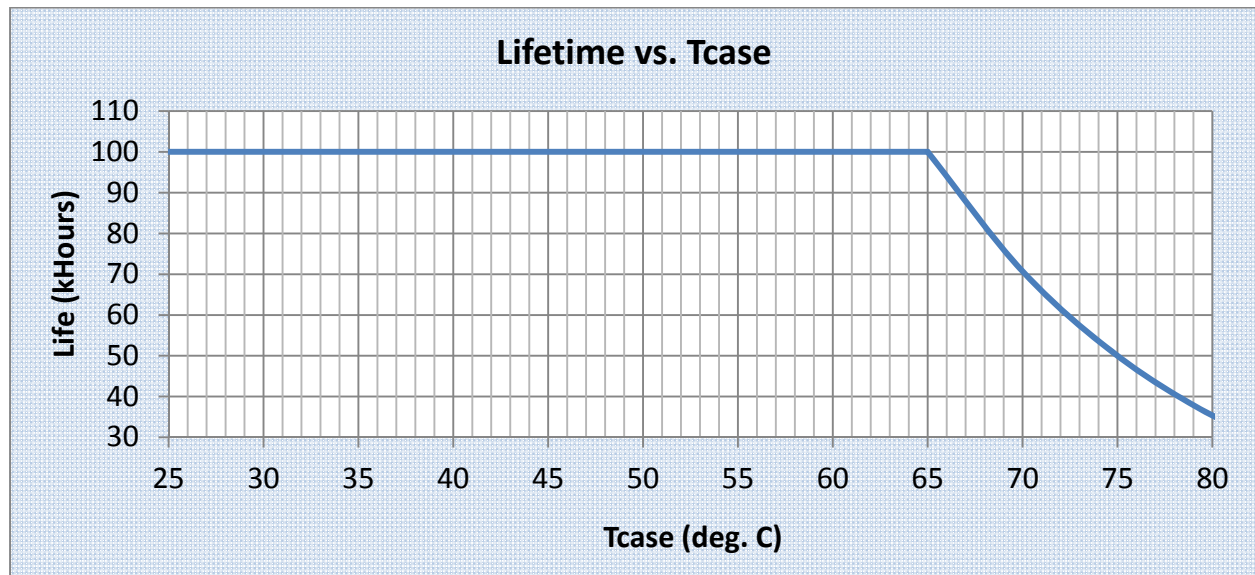
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Lifetime vs. Tcase of Driver:



Failure Rate Info based upon field call rate data:

- <0.01% per 1 kHr @<= Tcase 70 C



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UL isolation

Isolation	Input Wires	Output Wires , 0-10V Wires (Class 2)	Chassis
Input Wires	NA	2xU+1KVac	2xU+1KVac
Output Wires, 0-10V Wires (Class 2)	2xU+1KVac	NA	500Vac
Chassis	2xU+1KVac	500Vac	NA

U = Maximum rated voltage between primary and secondary circuit

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