

Electrical Specifications

Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency@ Max. Load and 75°C Case		Max. Case Temp. (°C)	Input Current (A)			Max. Input Power (W)	Inrush Current (Apk/ 50%-µs)		THD @ Max. Load (%)	Power Factor @ Max. Load	Weight (Lbs/ kgs)	Envir. Protec-tion Rating	Driver Type
			120 V	277 V		120V		277V		120 Vin	3/700					
75	27 - 54 Class 2 Output	0.7-2	88%	90%	75°C	0.7		0.3	87			20%	>0.9	0.40	UL damp & dry	Con-stant Current

Wire Diagram



- In / Output connector type Wago 250 Push in.
- Wire Type: Solid 0.75...1.5 mm², 24-16 AWG
- Wire strip length: 8...9mm

WARNING:

- Install in accordance with national and local electrical codes.
- The field-wiring leads or push-in terminals shall be fully enclosed

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Dimming Method	Dimming Range	Minimum Output Current (A)	Other Comments
DALI	5% ~ 100%	N/A	OEM programmable via this interface
100K pot-meter	5% ~ 100%	0.035	Dimming source current: 150 µA

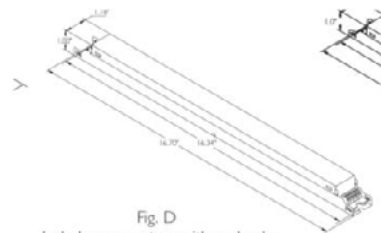


Fig. D
Includes connectors with no leads

Enclosure

	in. (mm)
Case Length	16.6 (424)
Case Width	1.2 (30.0)
Case Height	1.0 (25.0)
Mounting Length	16.3 (415)
Mounting Width	1.2 (30)
Overall Length	16.6 (424)

Xitanium XI075C200V054YPT1

75W 0.7-2A AOCM DALI INT-T

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Input Frequency	50/60Hz
RoHS	Yes
Status	Active

Product Data	
Order code	XI075C200V054YPT1
Full product code	XI075C200V054YPT1
Full product name	Xitanium 75W 0.7- 2A 54V 0-10V/TE Dimming
Net weight per piece	0.4 KG
Interfaces (see foot note)	1-10V Dimming, AOC,CLO, OTL (TE Dimming disabled)
Ambient Temp Range	-20C to +50C
Corresponding Tcase	-15C to +75C
Cycling Temperature	-20C to -40C limited to (400cycles max)
Line Voltage	120-277V
Line Current	0.7A @ 120V, 0.3@ 277V
Line Frequency	50/60Hz
Envir. Protection Rating	UL Dry & Damp
Life @ TC 75 C	50000 hr [nom.]
Suitable for Outdoor use?	No
Max TC	75C
Inrush current Width	Refer to table
Maximum ballast number on MCB 16A	20@120V / 16@277V
Input Over-voltage	Can survive input over-voltage stress of 320VAC for 48 hours and 350VAC for 2 hours
Earth leakage current	0.7 mA [max]
Mains voltage safety (AC)	+/-10%
Mains voltage performance (AC)	+/-10%
Min. Mains voltage operational	108V [min]
Output peak voltage	305V [max]
Output Current ripple	20% @ 2000 mA (ripple = pk-pk/avg)
Output voltage range (applicable at nominal Iout 0.7 – 2A)	27 – 54 V
Output power range	21 – 75 W
LED current Tolerance	+/-5%
Max nominal output current setting (see table 1.1)	Possible by external resistor between Rset 2 and Sgnd connector
THD total	< 20%
PF @ Max Load	>0.9
Connector (input/output)	Wago 250
Protections	Short Circuit and Open Circuit Protection for LED + and LED-

Note:

Driver is programmable via the 0-10V interface. For this function is special PC Tool "light tuner" software required, and a Dali programmer.

Functions:

- AOC (adjustable output current), setting by software of the max output current of the driver.
- Programmable temperature de-rating LED module, setting by software of the output current decrease depending on the measured NTC value to avoid decreased lifetime of the LED module.
- CLO (Constant Lumen over Lifetime), correction of output current over lifetime to compensate the degradation of the LED's.

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1.1 Rset2 table (Valid Range of Current 0.7-2.0A)

Rset [Ω]	Iset [mA]	Rset [Ω]	Iset [mA]
0	100	<=2000	733.3333
100	100	2200	779.7414
110	105.4598	2400	823.4195
120	110.9195	2700	883.477
130	116.3793	3000	940.8046
150	124.569	3300	992.6724
160	130.0287	3600	1041.81
180	138.2184	3900	1085.489
200	146.408	4300	1142.816
220	154.5977	4700	1191.954
240	165.5172	5100	1238.362
270	176.4368	5600	1292.96
300	190.0862	6200	1350.287
330	203.7356	6800	1402.155
360	214.6552	7500	1454.023
390	228.3046	8200	1503.161
430	244.6839	9100	1557.759
470	261.0632	10000	1604.167
510	277.4425	11000	1653.305
560	296.5517	12000	1694.253
620	318.3908	13000	1729.741
680	340.2299	15000	1792.529
750	367.5287	16000	1817.098
820	392.0977	18000	1863.506
910	422.1264	20000	1901.724
1000	452.1552	22000	1934.483
1100	484.9138	24000	1964.511
1200	514.9425	27000	2000
1300	544.9713	>100000	700
1500	602.2989		
1600	632.3276		
1800	684.1954		

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I. Typical OEM programming setup



The programming of the driver can be done via the control interface 0-10V or Dali. To start programming nominal input voltage must be applied. Load connection is not required for programming. Special PC Tool "light tuner" software required to enable the driver programming,

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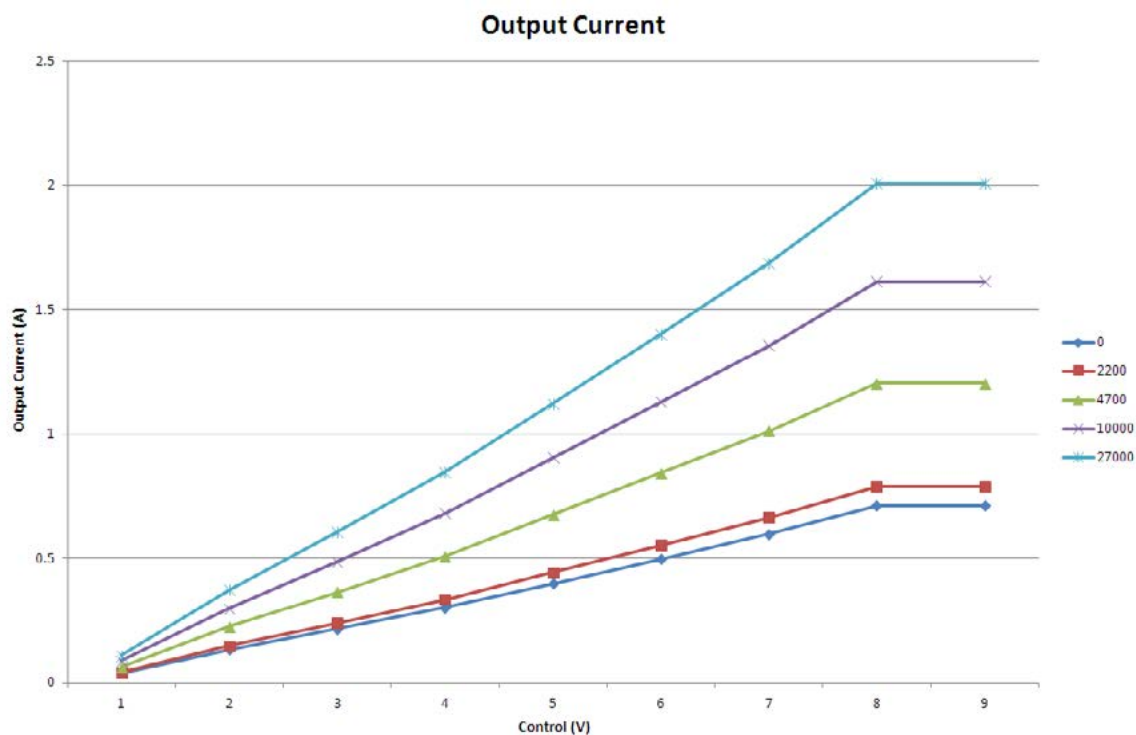
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1-10V Dimming Curve vs Rset (Iout):

Dimming source current from the driver: 150 μ A max.

Dim Level: 5% - 100%



Rset2 not connected = default output current of 700mA

Rset2 = 27000 Ω = max. output current of 2000mA

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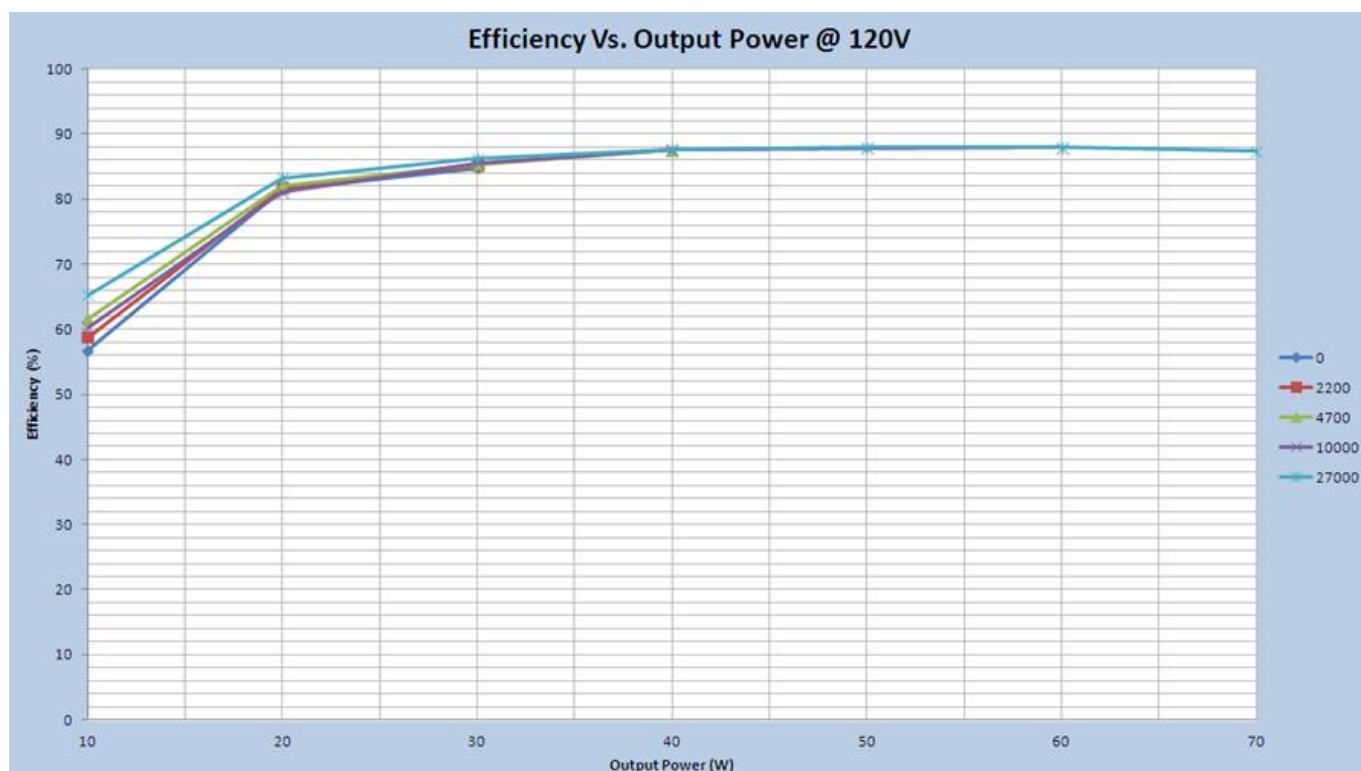
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Efficiency vs. output power @ 120V



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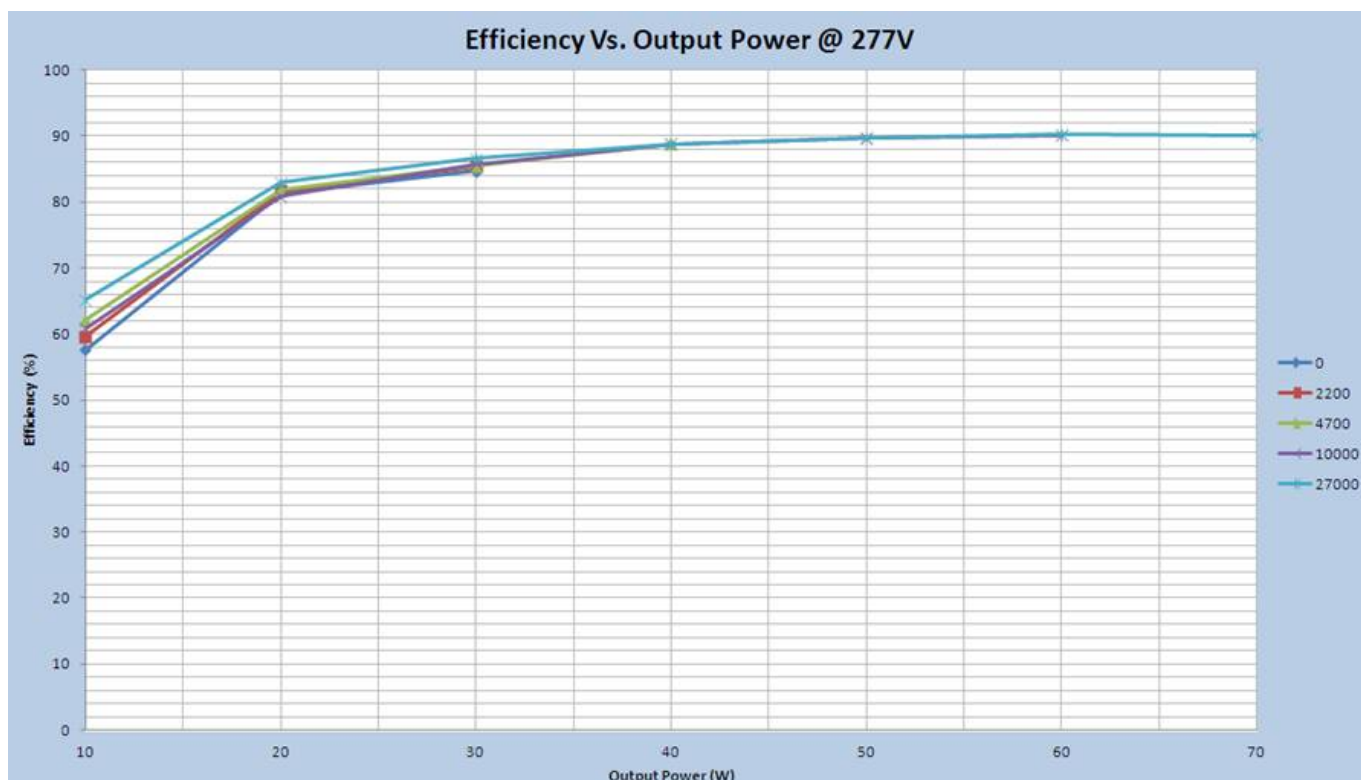
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Efficiency vs. output power @ 277V



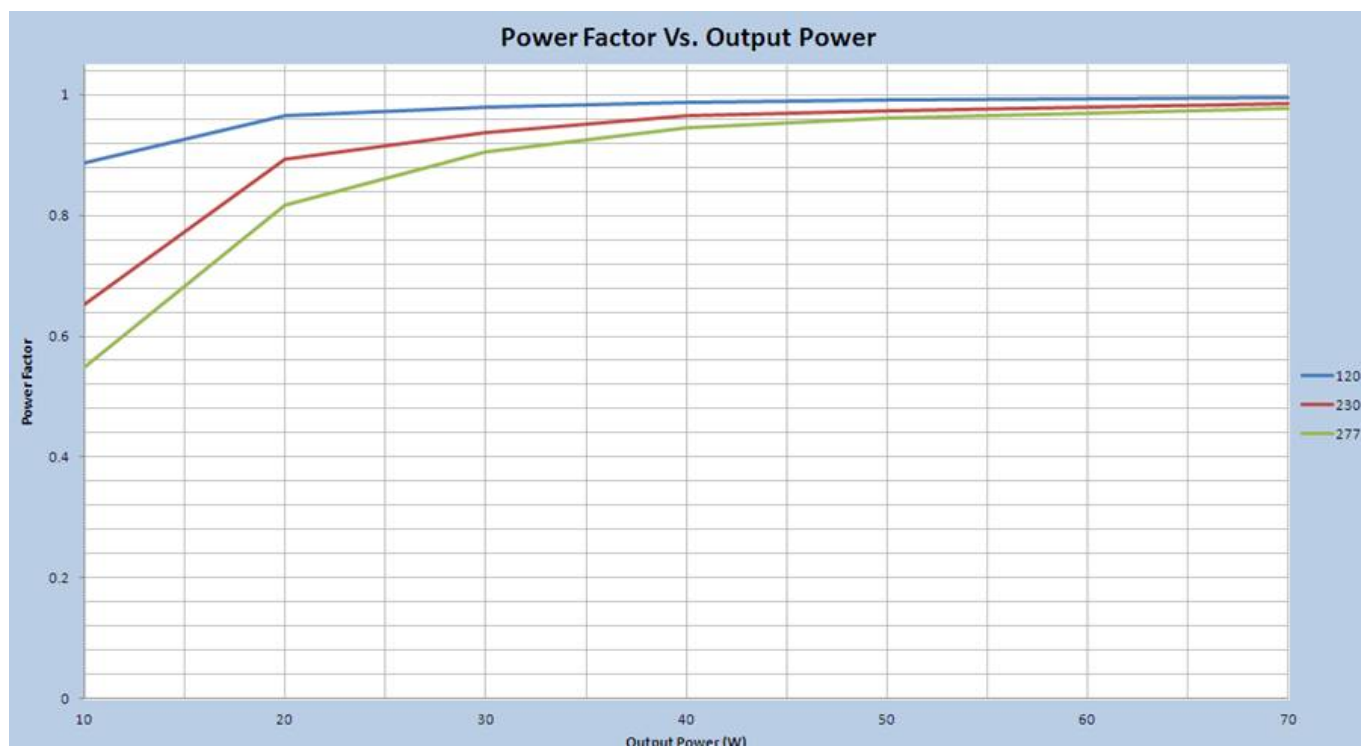
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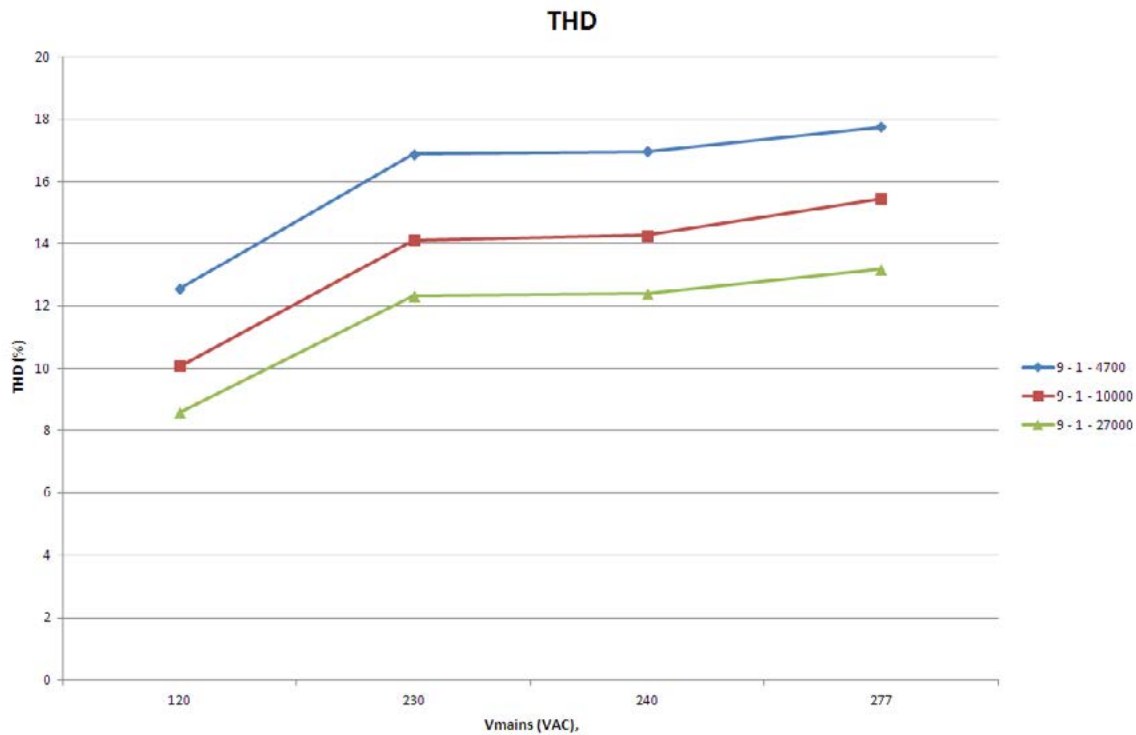
Power factor vs output power measured at 120 – 230 - 277V

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THD vs input voltage measured with different output current settings from 0.7 -1A

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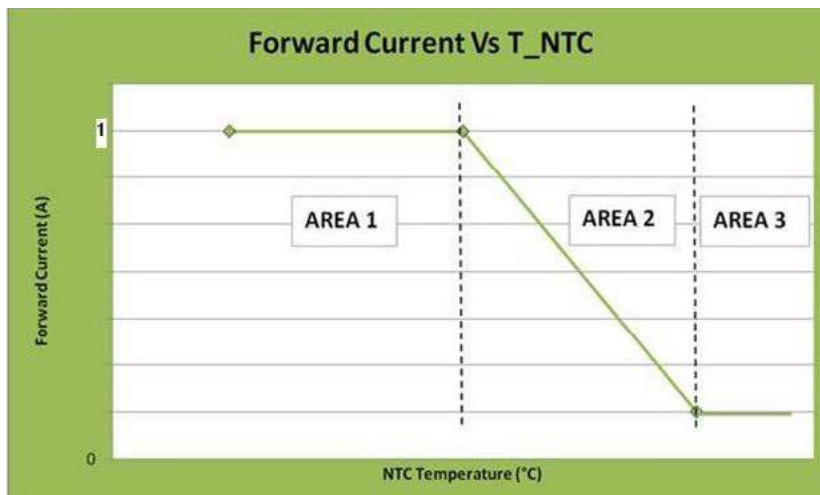
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NTC current control:

Symbol	Parameter	Condition	Values			Unit
			Min	Typ	Max	
	NTC in LED module	15kOhm @ 25°C				
	Advised type	238I 615 54153 (Vishay 15kOhm ± 2% NTC, B25/85=3700)				
	NTC threshold value	Dim to reduce output current		2966		Ohm



REMARKS:

For graphical illustrations only, the I_{MAX} output current is taken 1000mA but I_{MAX} can be set to different values as well

Dimming graph can be changed as shown in picture above. The NTC value on the dotted line can be changed.

- Area 1, driver starts dimming
- Area 2, driver dimming
- Area 3, driver max dimming.

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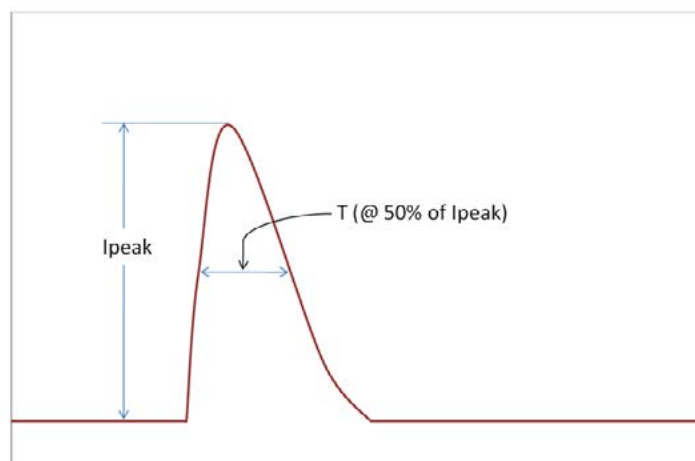
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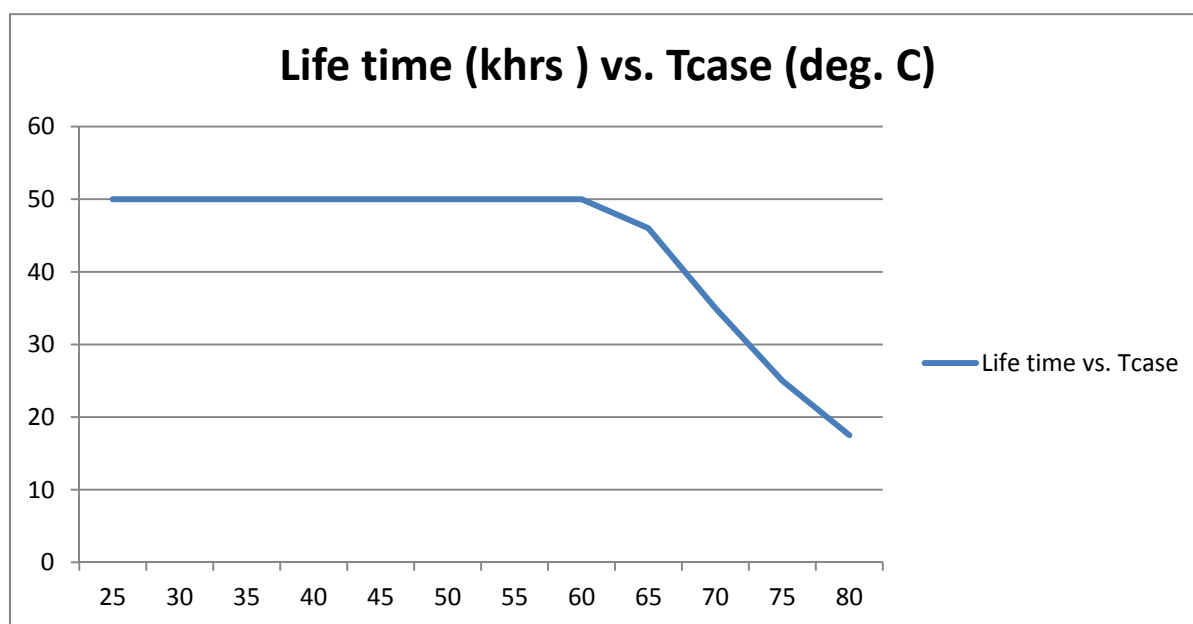
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Inrush Current Info:



Vin	Ipeak	T (@ 50% of Ipeak)
120 Vrms	3 A	700 μ s
277 Vrms	7 A	600 μ s

Lifetime vs. Tcase of Driver:



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Isolation:

Isolation	Input Wires	Output Wires	1-10V Wires	Chassis
Input Wires	NA	1600	1600	1600
Output Wires	1600	NA	1600	1600
1-10V Wires	1600	1600	NA	1600
Chassis	1600	1600	1600	NA

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