

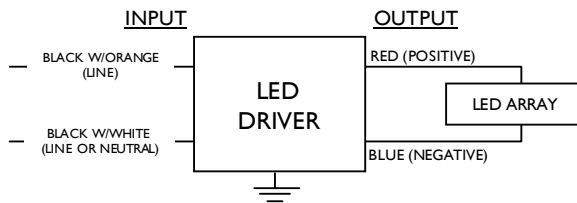
LEDHCNA0024V41FLO	
Brand Name	XITANIUM
Description	100W 24V 4.1A
Input Voltage	347~480
Input Frequency	50/60Hz
RoHS	Yes
Status	Active

Electrical Specifications

Output Power (W)	Output Voltage (V)	Output Current (A)	Tcase Max	Input Current (A)	Max. Input Power (W)	Inrush Current (A _{pk} /μs)	Max. THD (%)	Min. Power Factor	Surge Protection (KV)	Weight (Lbs)	Envir. Protection Rating
100	24 cv 3.5~24 cc	0.10~4.16 cv 4.16 cc	85°C	0.32@347V 0.23@480V	117	85/115	20	0.90	3.0	2.84/1270	UL Dry & Damp

cv = constant voltage mode, cc = constant current mode

Wiring Diagram



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

Standard Lead Length

	in.	cm.
Black w/ orange stripe	9	23
Black w/ white stripe	9	23
Blue	9	23
Red	9	23
Gray		
Violet		

Maximum Wiring Distance (at full load)

Wire Size (AWG)	Distance (feet)
26	3
24	4
22	7
20	11
18	18
16	29
14	46
12	71
10	120

Enclosure



	in. (mm)
Case Length	8.34 (211.8)
Case Width	2.35 (59.1)
Case Height	1.47 (37.1)
Mounting Length	9.0 (228.4)
Mounting Width	1.7 (42.9)
Overall Length	9.54 (242.3)



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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 is UL Class 2 power unit as per UL1310. It is also listed in the UL Sign Accessory Manual (UL SAM).
- 2.2 LED Driver has Class A sound rating.
- 2.3 LED Driver has a minimum operating ambient temperature of -40°C.
- 2.4 LED Driver has a life expectancy of 50,000 hours at Tcase of ≤ 75°C.
- 2.5 LED Driver has a life expectancy of 100,000 hours at Tcase of ≤ 65°C.
- 2.6 LED Driver has a typical self rise of 25°C at maximum load in open air without heat sink.
- 2.7 LED Driver is certified by UL for use in a dry or damp location (Outdoor Type I).
- 2.8 LED Driver tolerates sustained open circuit and short circuit output conditions without damage.
- 2.9 LED Driver maximum allowable case temperature is 85°C – see product label for measurement location.
- 2.10 LED Driver has a failure rate of ≤ 0.01% per 1,000 hours
- 2.11 LED Driver reduces output power to LEDs if maximum allowable case temperature is exceeded.
- 2.12 LED Driver complies with FCC rules and regulations, as per Title 47 CFR Part 15 Non-Consumer (Class A).

Section III – UL Conditions of Acceptability (File E220165)

When installed in the end product, consideration shall be given to the following:

- 3.1 These LED Drivers have been evaluated to comply with Class 2 output criteria.
- 3.2 These LED Drivers are only suitable for use in Dry and Damp locations.
- 3.3 These products are rated as follows:

Model	Input, 60 Hz.			OUTPUT V and Amperes DC
	Volt/V	Amp/A	Power/W	
LEDHCNA0024V41FLO	347-480	0.95-0.40	100	24V and 4.1 A(*)

(*) – For connection to LED array consisting of 100 Watt maximum.

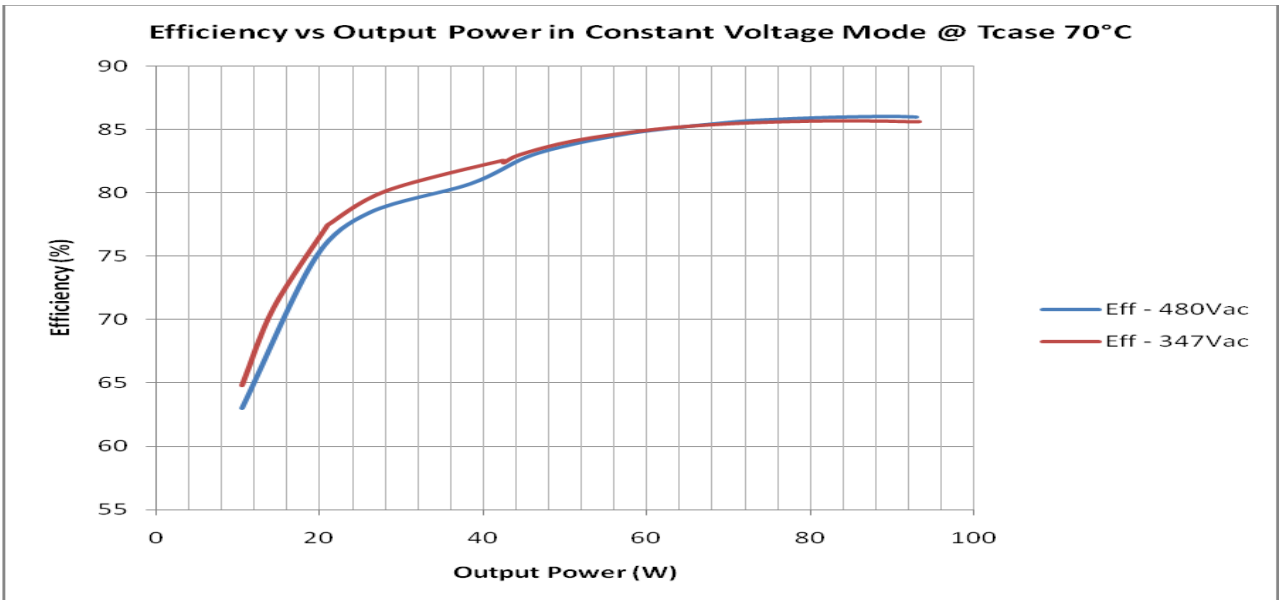
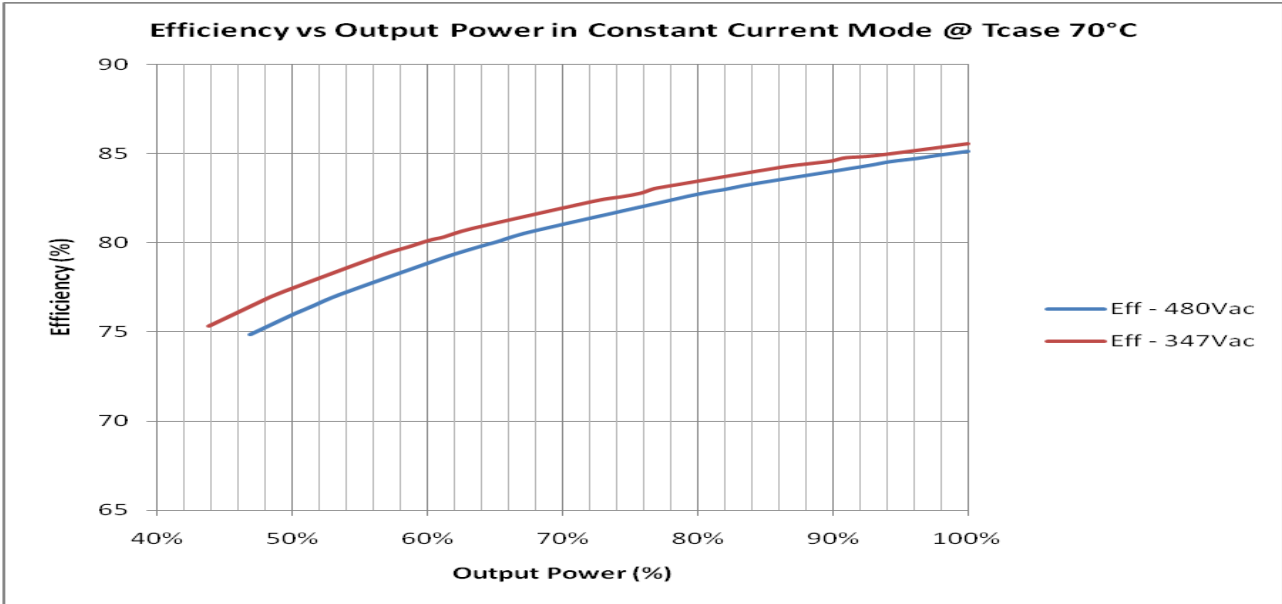
- 3.4 In the end product, power supply spacing to other heat producing components shall be minimum 4 inches spacing to sidewalls, and minimum 2 inches spacing to top of enclosure and mounted not closer than 1 inch end to end or 4 inches side to side from adjacent LED power supplies.
- 3.5 The units were submitted and tested for a maximum manufacturer’s recommended Tc point described in the table below. If adjacent LED power supplies are spaced closer than 1 inch end to end or 4 inches side to side, a temperature test shall be conducted in the end use product.

Model No.	Input Voltage, Hz	Max. Case @ Tc, °C	Ambient °C (Reference only)*
LEDHCNA0024V41FLO	347-480, 60	85	52.1 / 52.6

* - 347V / 480V

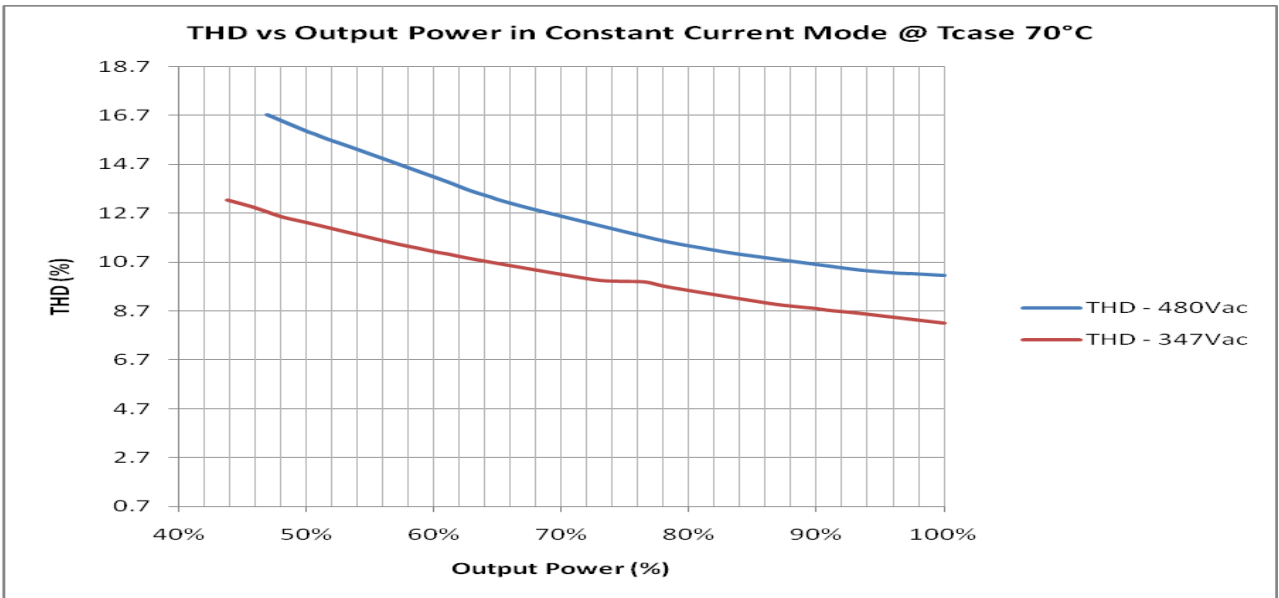
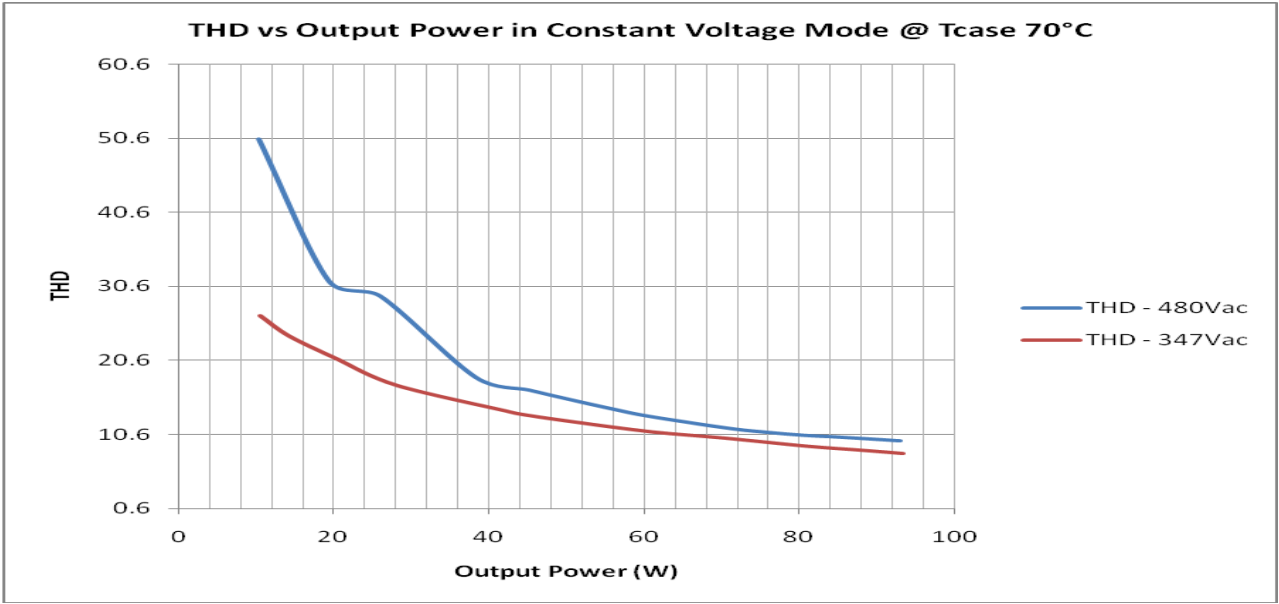
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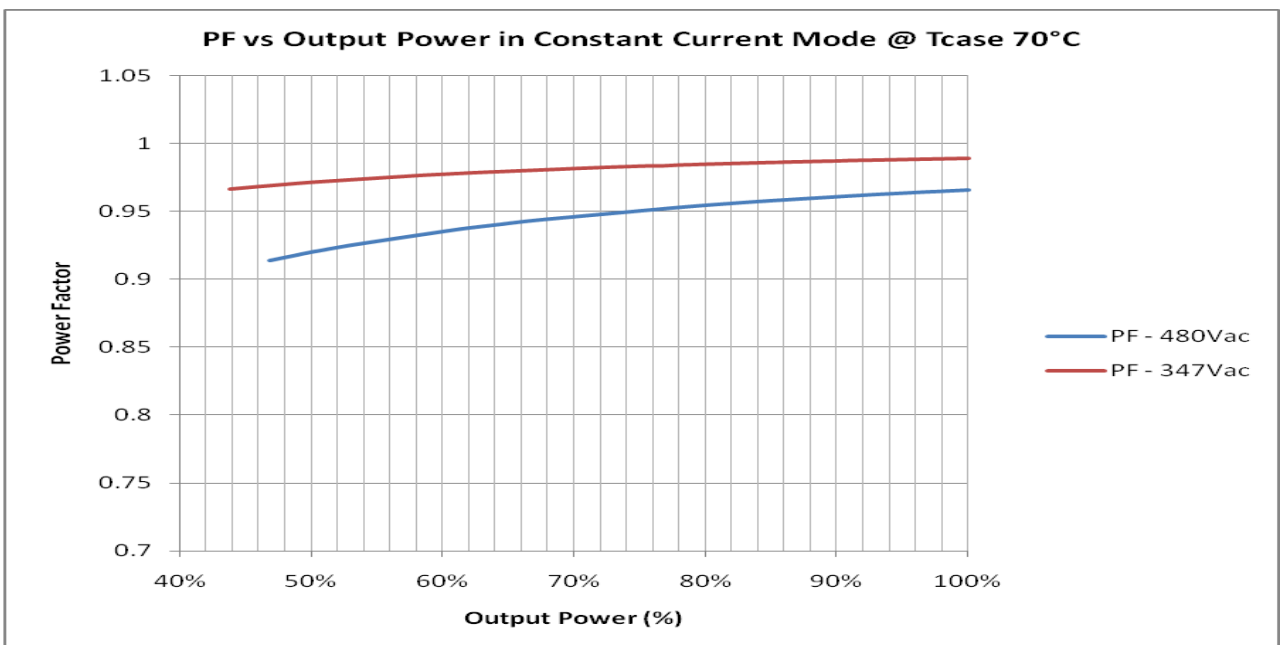
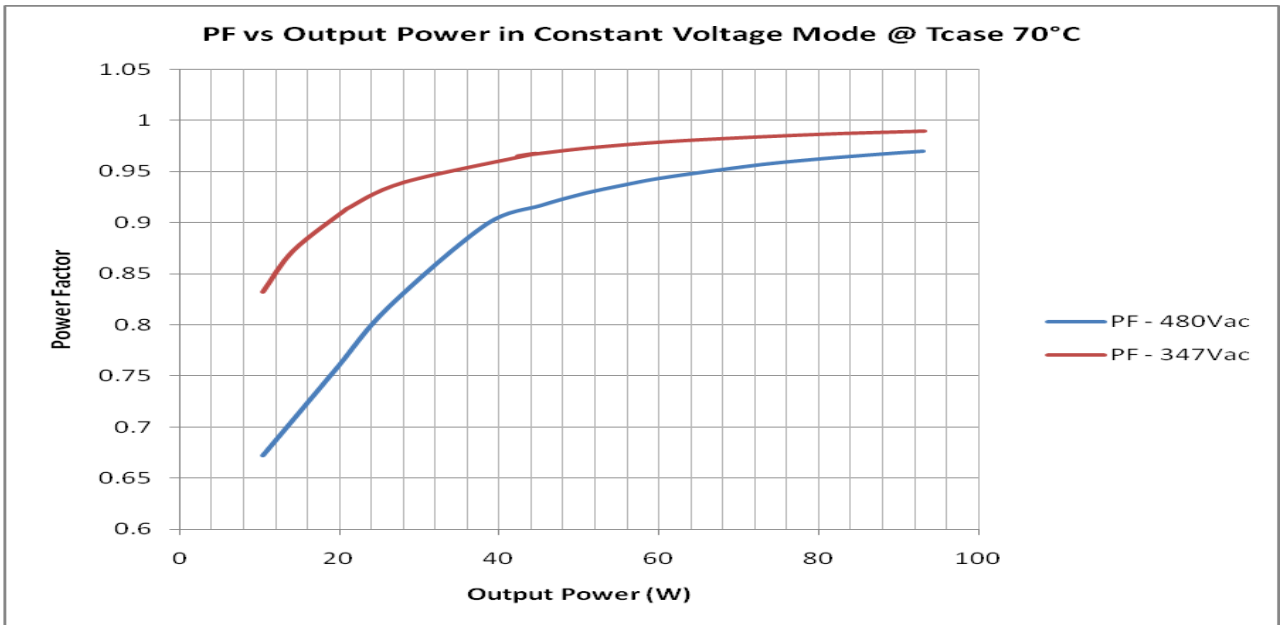


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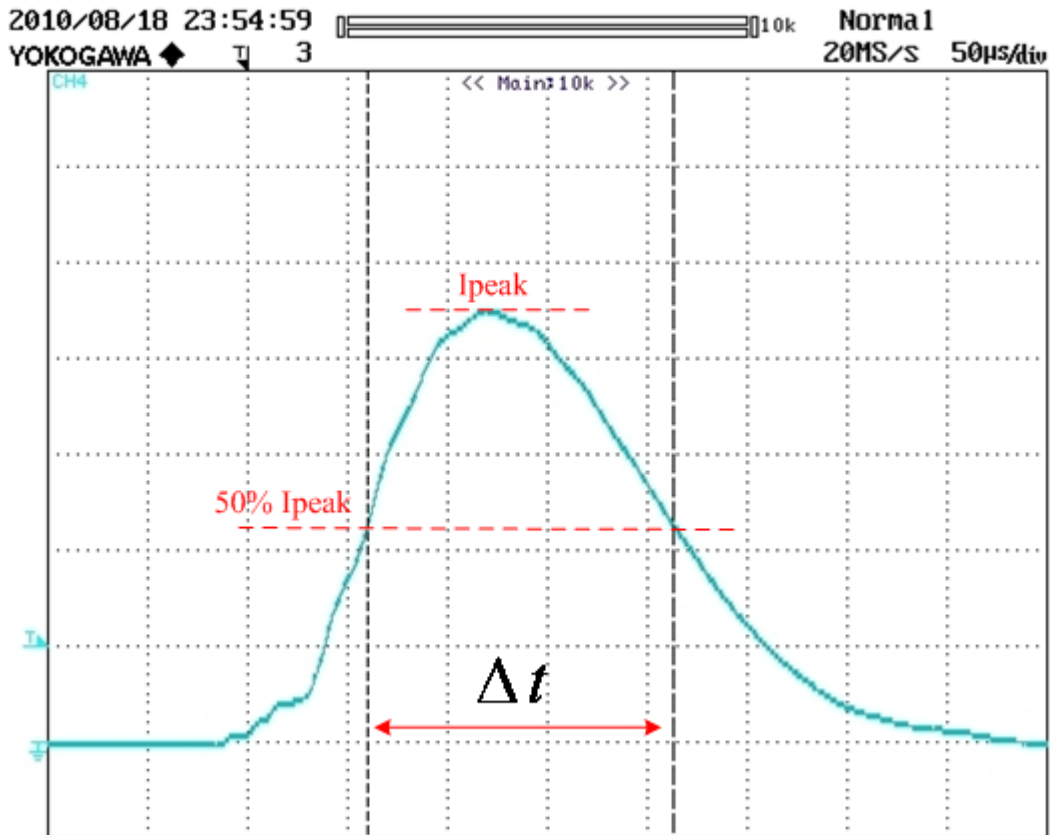
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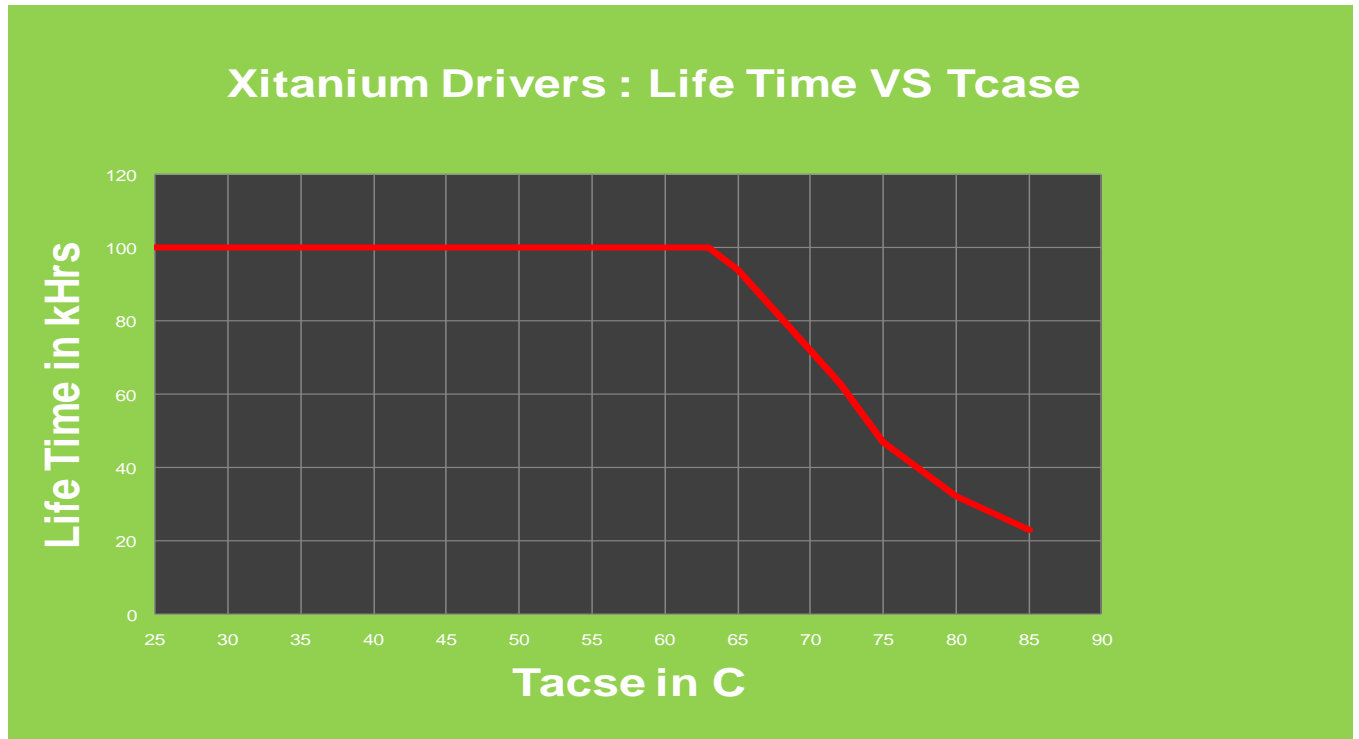
Inrush Current Info:



Test Voltage	Ipeak [A]	50% Ipeak [A]	Δt [uSec]
347	60	30	120
480	85	42.5	115

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Failure Rate Info:

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

Revision History:

Rev No.	Date	Description	Approval	Remarks
1.1	11/17/2011	*Remove graph "Failure rate vs. Tcase	N.T.	
1.2	01/16/2012	* Add Envir. Protection Rating	N.T.	
1.3	03/02/2012	*Modify Part #(Remove Dashes)	N.T.	

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