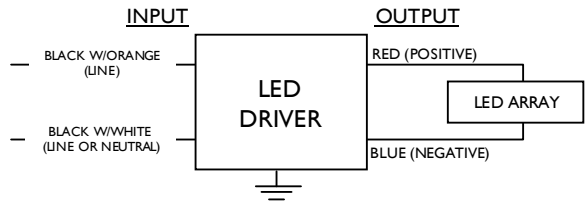
PHILIPS
ADVANCE

LEDHCNA0700C210FO	
Brand Name	XITANIUM
Description	150W 0.70A
Input Voltage	347~480V (+/- 10%)
Input Frequency	50/60Hz
RoHS	Yes
Approbations	UL,CSA
Status	Active

Electrical Specifications

Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency	Tcase Max	Input Current at 347V (A)	Max. Input Power (W)	Inrush Current ($A_{pk}/\mu s$)	Max. THD (%)	Min. Power Factor	Surge Protection (KV)	Weight (Lbs)	Envir. Protection Rating
150	60~210	0.70	>90%	80°C	0.5	165	120/100	20	0.99	2.5	2.8/1270	UL Dry & Damp

Wiring Diagram



Input and Output: 18AWG 105C/600V solid copper lead wires

Standard Lead Length

	in.	cm.
Black w/orange stripe	10	25
Black w/white stripe	10	25
Blue	10	25
Red	10	25
Gray		
Violet		

Maximum Wiring Distance (at full load)

Wire Size (AWG)	Distance (feet)
26	8
24	13
22	21
20	34
18	54
16	85
14	137
12	210
10	357

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)

c UL us
E321253

C SP US

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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 complies with UL standard UL1012.
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 400 maximum switching cycle between -40°C to -20°C.
2.5 LED Driver has a maximum life expectancy of 50,000 hours at Tcase of ≤ 75°C.
2.6 LED Driver has a maximum life expectancy of 100,000 hours at Tcase of ≤ 65°C.
2.7 LED Driver has a typical self rise of 25°C at maximum load in open air without heat sink.
2.8 LED Driver is certified by UL for use in a dry or damp location (Outdoor Type I).
2.9 LED Driver tolerates sustained open circuit and short circuit output conditions without damage.
2.10 LED Driver maximum allowable case temperature is 80°C – see product label for measurement location.
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 E321253)
When installed in the end-use equipment, the following are among the considerations to be made:
3.1 The drivers shall be installed in compliance with the enclosure, mounting, spacing, casualty and segregation requirements of the ultimate application.
3.2 The driver output is intended to be loaded to maximum 150W except for model LEDHCNA0400C280FO. The output of model LEDHCNA0400C280FO is rated at 115 watts.
3.3 The Normal Temperature test should be performed in the end product and the case temperature is not to exceed the following specified maximum case temperature for each model:

Models: LED-HCNA-0700C-210-FO, LED-HCNA-0700C-210-DN, **LED-HCNA-0530C-280-DN, and LED-HCNA-0530C-280-DN**	
Input Voltage, Hz	Case Temp @ T_C, °C
347, 60 (Horizontal)	80
480, 60 (Horizontal)	80

Models LED-HCNA-0350C-425-FO, LED-HCNA-0350C-425-DN and LED-HCNA-0400C-280-FO	
Input Voltage, Hz	Case Temp @ T_C, °C
347, 60 (Horizontal)	81
480, 60 (Horizontal)	80

3.4 The driver is a "Direct"; "Non-Isolating" type such that the secondary circuit shall be treated as part of the primary circuit in the end-use application.
3.5 The drivers are suitable for use in "DAMP" and "DRY" locations.
*3.6 The dimming circuit provided on model LEDHCNA0350C425DN, model LEDHCNA0700C210DN, and model LEDHCNA0530C280DN is to be considered a primary circuit in the end-use application.
3.7 The enclosure of these drivers must be connected to earth ground with a suitable grounding method when installed in the end-use application.

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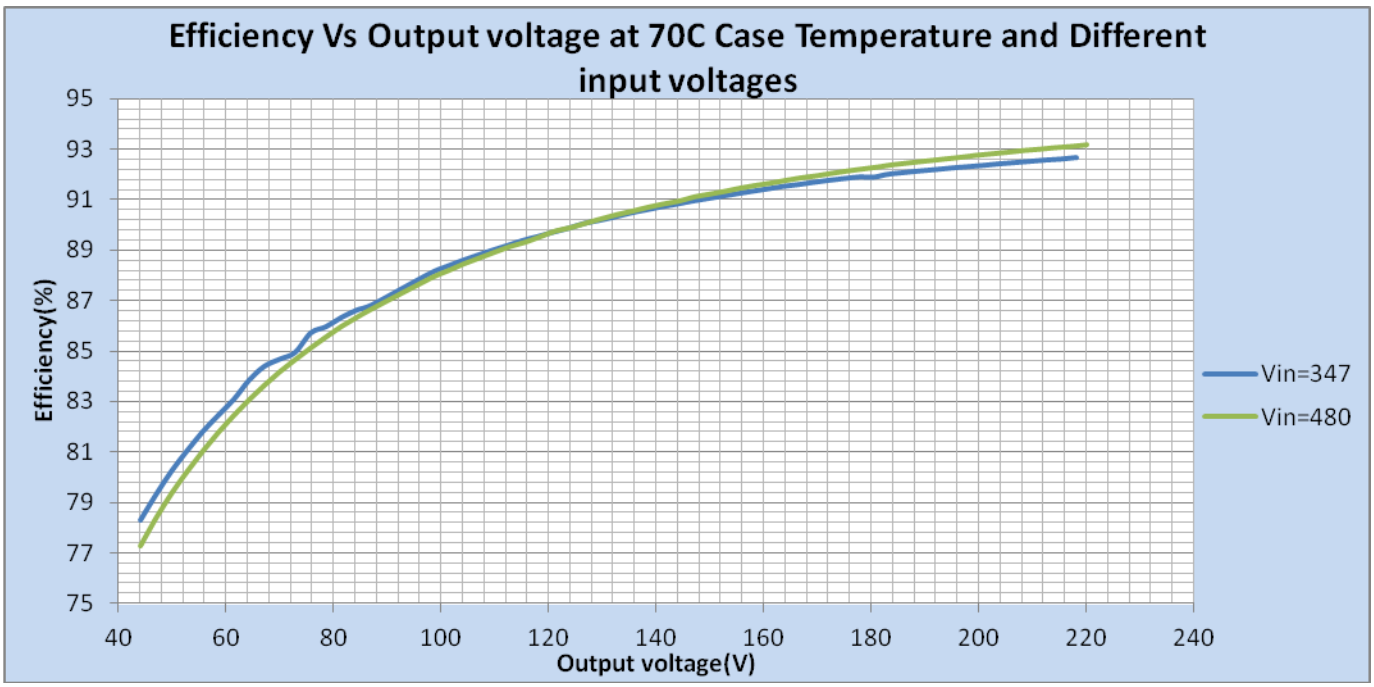

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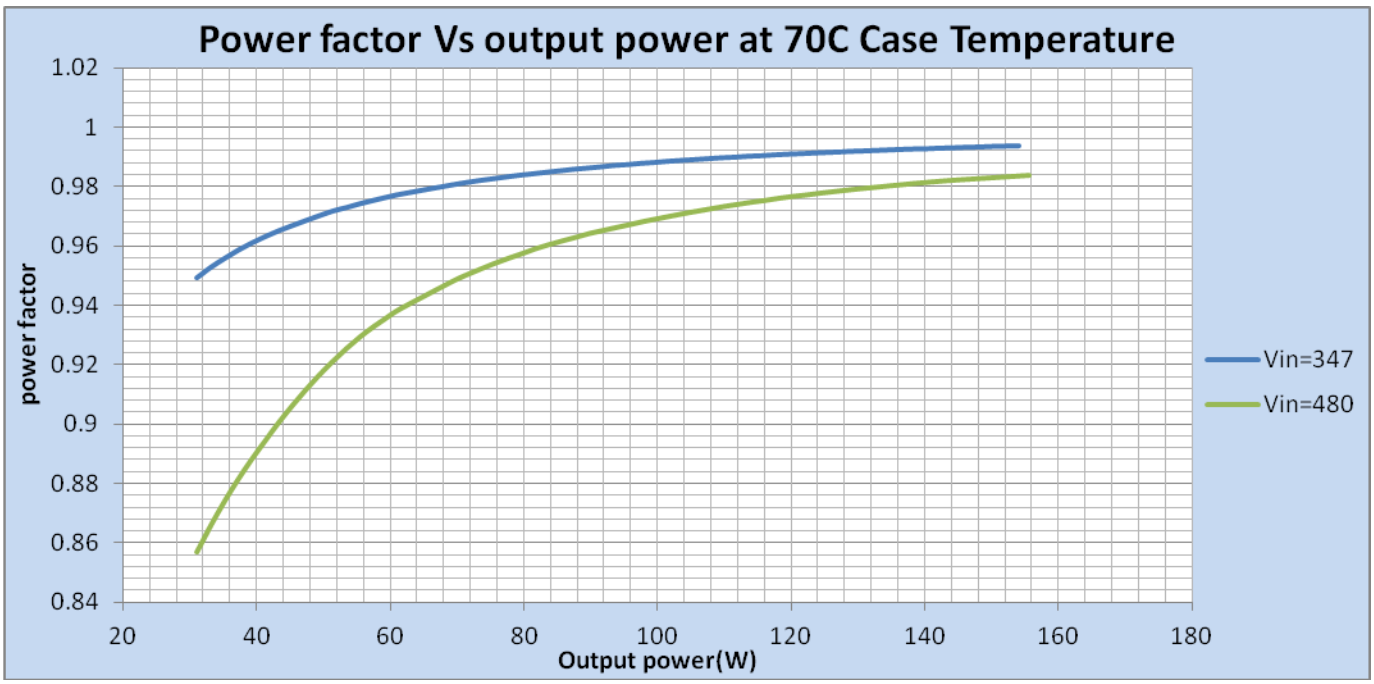

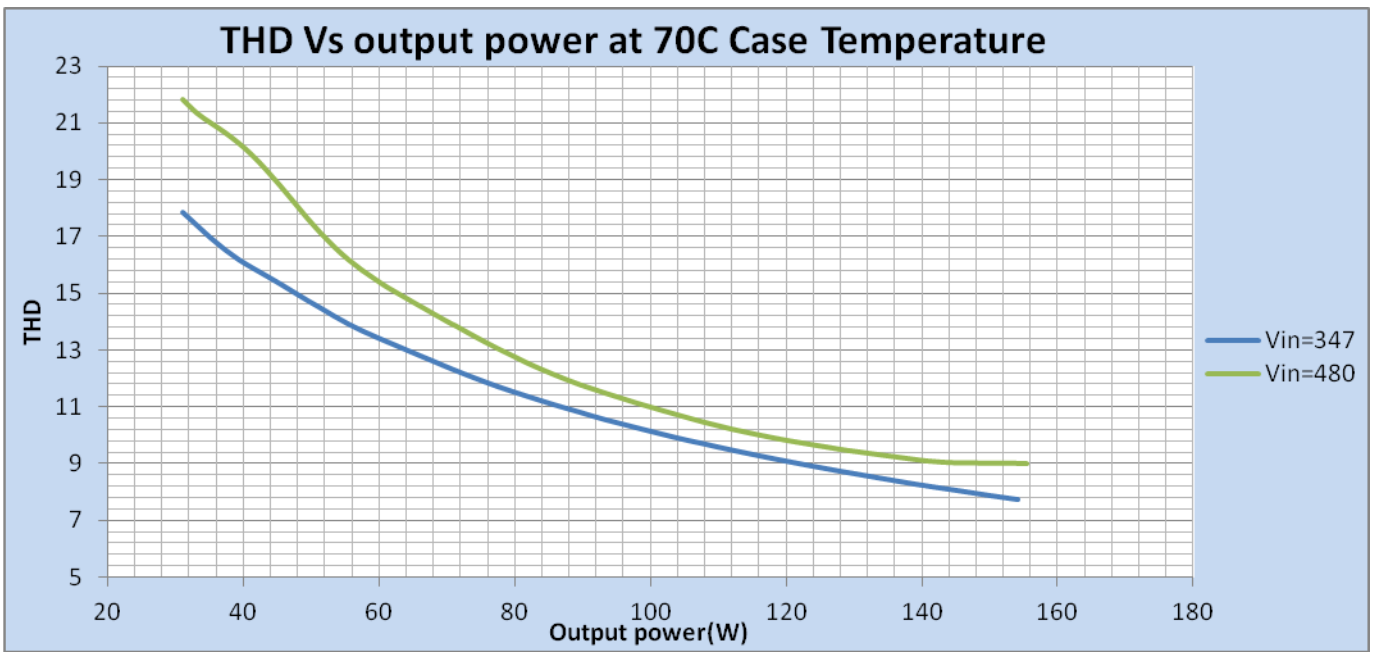

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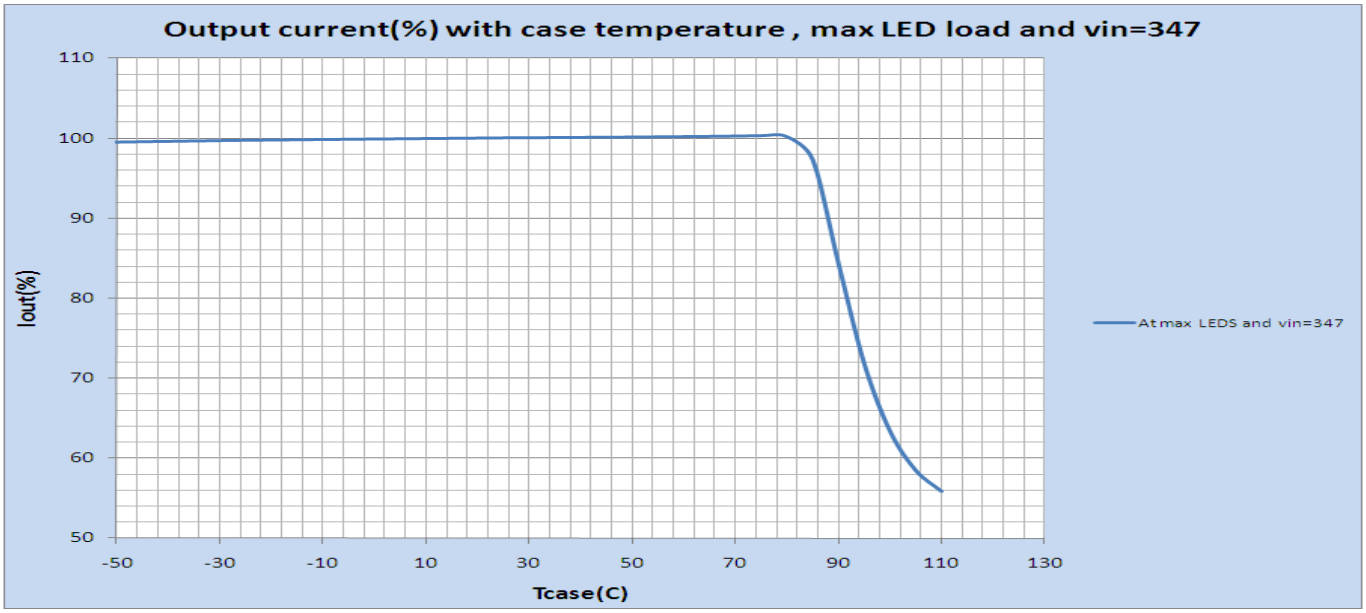

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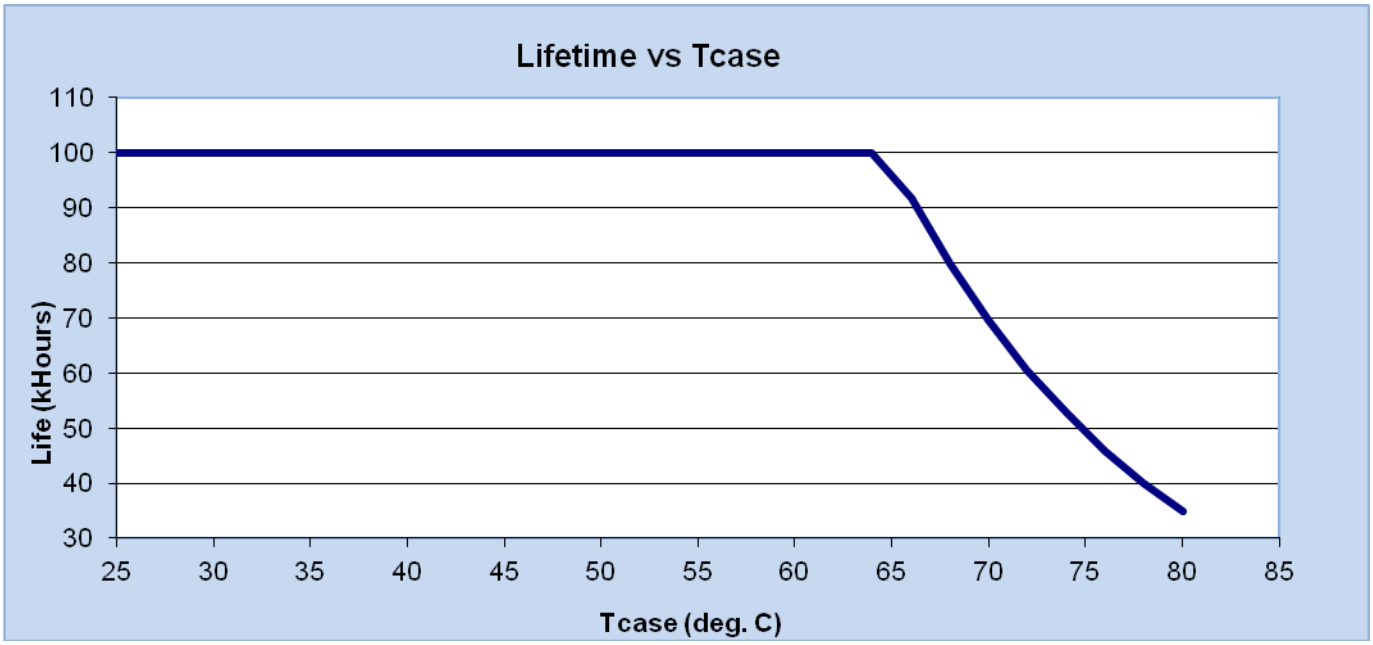

Failure Rate Info based upon field call rate data:

- **<0.01% per 1kHr @<= Tcase 65°C**

Revision History:

Rev No.	Date	Description	Approval	Remarks
1.1	11/17/2011	*Remove graph "Failure rate vs. Tcase	N.T.	
2.1	01/13/2012	* Add Envir. Protection Rating	N.T.	
3.1	02/06/2012	*Update Standard Lead Length	M.A.	
4.1	04/09/2012	*Add Installation & Application Notes: Section II – 2.4: Max Switching Cycles	N.T.	
5.1	04/18/2012	* Add Approbations: UL,CSA	N.T.	

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