

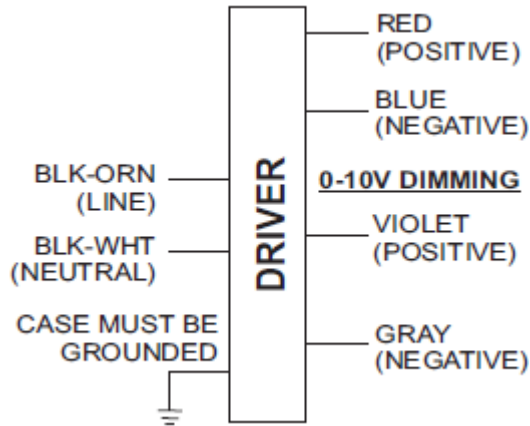
LEDHCNA0024V4IDL0M

Brand Name	XITANIUM
Description	Xtanium 100W 24V 4.1A 0-10V HCN-F sXt
Input Voltage	347~480
Input Frequency	50/60Hz
RoHS	Yes
Status	Active

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 _{in} /50%- μ s)		THD @ Max Load (%)	Power Factor @ Max Load	Surge Protection Common/Diff (KV)	Weight (Lbs/kgs)	Envir. Protection Rating
			347V	85.0		347V	0.32		347 Vin	60/ 120					
100	15~24	4.1	347V	85.0	85 °C	347V	0.32	112	347 Vin	60/ 120	20	>0.9	3/3	2.8/ 1.27	UL Dry & Damp
			480V	85.5		480Vac	0.23		240 Vin	85 / 115					

Wire Diagram



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

Lead Length

Input: Black-Orange 270mm (\pm 30mm), Black-White 270mm (\pm 30mm)
Output: Red 270mm (\pm 30mm), Blue 270mm (\pm 30mm)
Dimming: Violet 270mm (\pm 30mm), Gray 270mm (\pm 30mm)

Dimming Method	Dimming Range	Minimum Output Current (A)	Min (typ). Output Power(W)	Other Comments
1-10V Isolated	15% ~ 100%	0.615	60	Dimming source current: 150 μ A

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)

Revised 02/02/2012

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Customer Support/Technical Service: 800-372-3331 · OEM Support: 866-915-5886



Electrical Specifications

LEDHCNA0024V41DLOM	
Brand Name	XITANIUM
Description	Xitanium 100W 24V 4.1A 0-10V HCN-F sXt
Input Voltage	347~480
Input Frequency	50/60Hz
RoHS	Yes
Status	Active

Product Data

Order code	LEDHCNA0024V41DLOM
Full product code	LEDHCNA0024V41DLOM
Full product name	Xitanium 100W 24V 4.1A 0-10V HCN-F sXt
Net weight per piece	1.27 KG / 2.8 lbs
Interfaces	0-10V Dimming
Ambient Temp Range	-40C to +55C
Corresponding Tcase	-15C to +85C
Cycling Temperature	-20C to -40C limited to (400cycles max)
Line Voltage	347-480V
Line Current	0.32A @ 347V, 0.23A @ 480V
Line Frequency	50/60Hz
Envir. Protection Rating	UL Dry & Damp
Life @ TC 65C	100000 hr [nom] refer to graph below
Life @ TC 75C	50000 hr [nom] refer to graph below
Suitable for Outdoor use?	Yes
Max TC	85C
Inrush current Width	Refer to table
Maximum ballast number on MCB 16A	12 [max]
LED Current Tolerance	+/- 125mA
Earth leakage current	0.7 mA [max]
Mains voltage safety (AC)	+/-10%
Mains voltage performance (AC)	+/-10%
Min. Mains voltage operational	300 V [min]
Output peak voltage	24V [max]
Output Current ripple	30% @ 4.10 A (ripple = pk-pk/avg)
THD total	< 20%
THD 3 rd Harmonic	< 15%
PF @ Max Load	>0.90
Wire Isolation	All wires are Double isolated to ground
Protections	Short Circuit and Open Circuit Protection for LED + and LED-
Standby power	NA

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Electrical Specifications

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 ≤75C.
- 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.
- 2.5 LED Driver complies with the requirements of CE, ENEC, CISPR 15 Ed 7.2.

Section III - Conditions of Acceptability - When installed in the end product, consideration shall be given to the following:

- 3.1 The LED Driver has been evaluated to comply with Class 2 output criteria.
- 3.2 The LED Driver is only suitable for use in Dry and Damp Locations.
- 3.3 The LED driver should be used within the recognized electrical ratings.
- 3.4 The LED driver case must be grounded in the end-use application.
- 3.5 In the end product, power supply spacing to other heat producing components shall be minimum 4 inches spacing to sidewalls, and minimum 3 inches spacing to top of enclosure and mounted not closure than 1 in. end to end or 4 in. side to side from adjacent LED power supplies.
- 3.6 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 in. end to end or 4 in. 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)*
LEDHCNA0024V4IFLO	347-480,60	85	52/53
LEDHCNA0024V4IDIO	347-480,60	85	57.8/58.2

- 3.7 The 0-10V dimming output for Model LEDHCNA0024V4IDLO is part of the Class 2 secondary circuit.

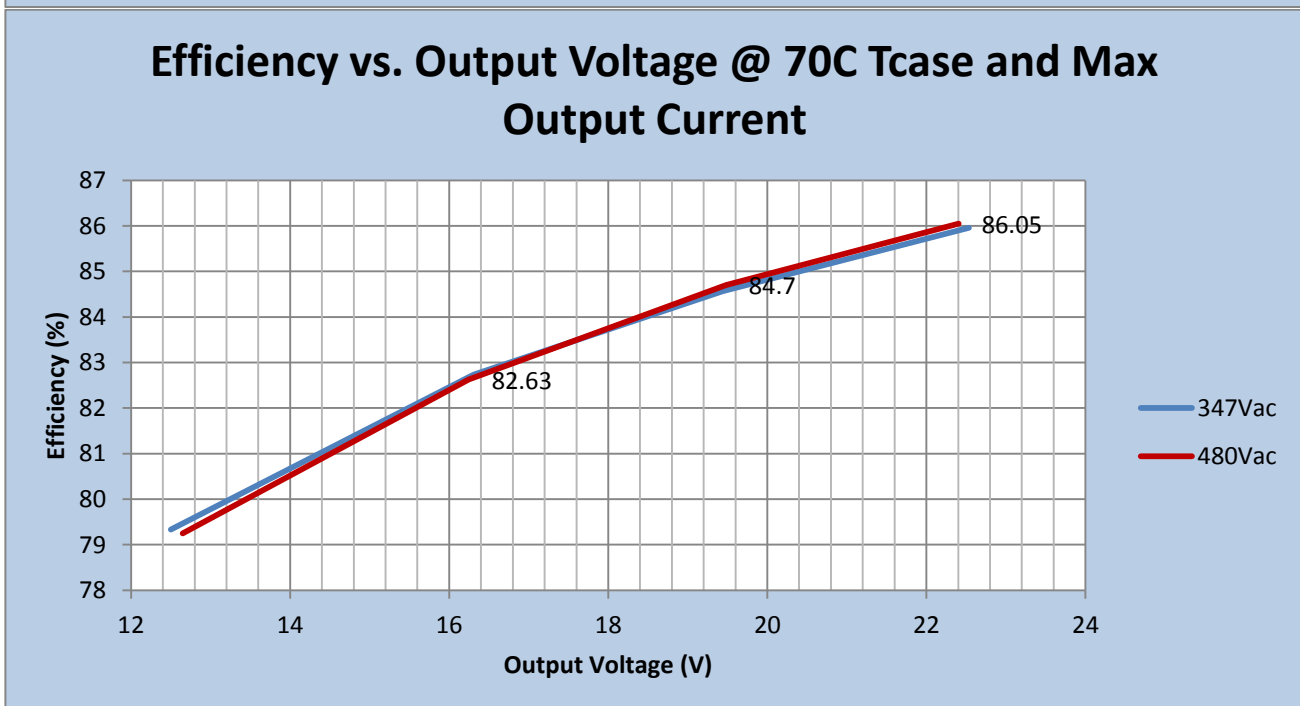
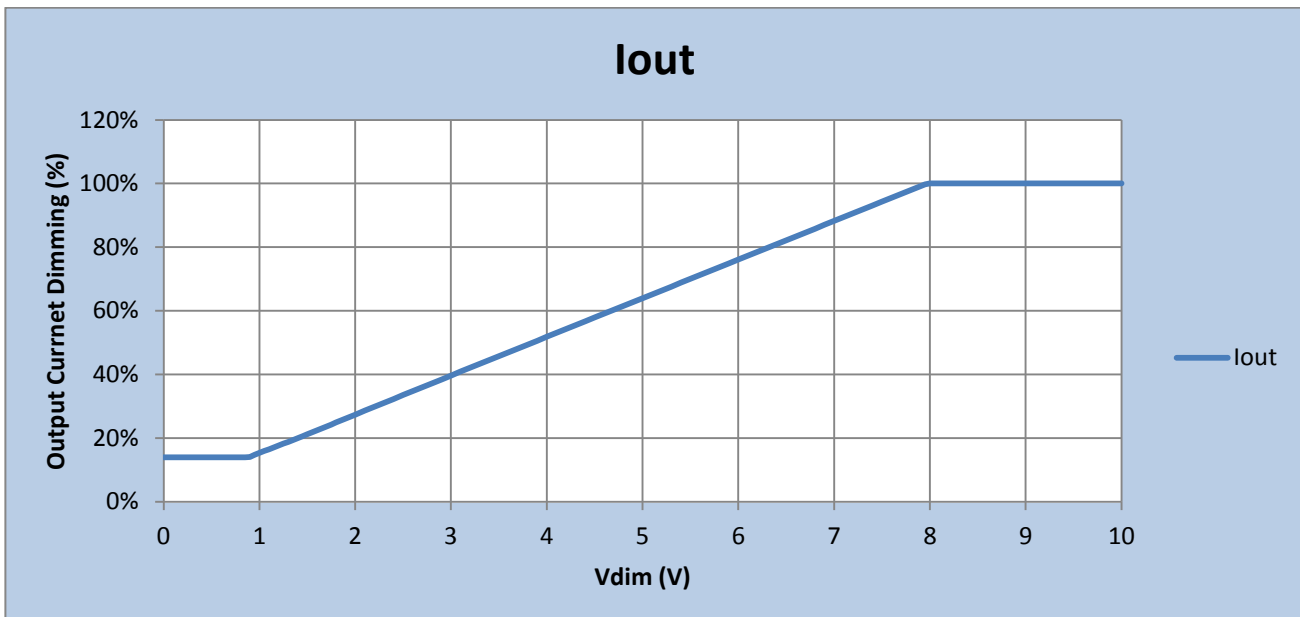
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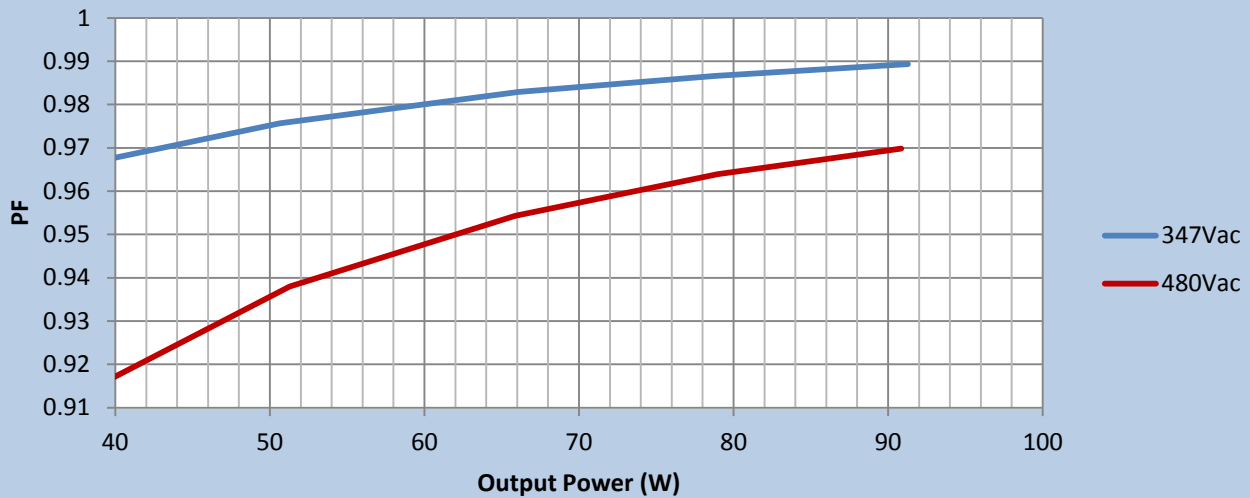


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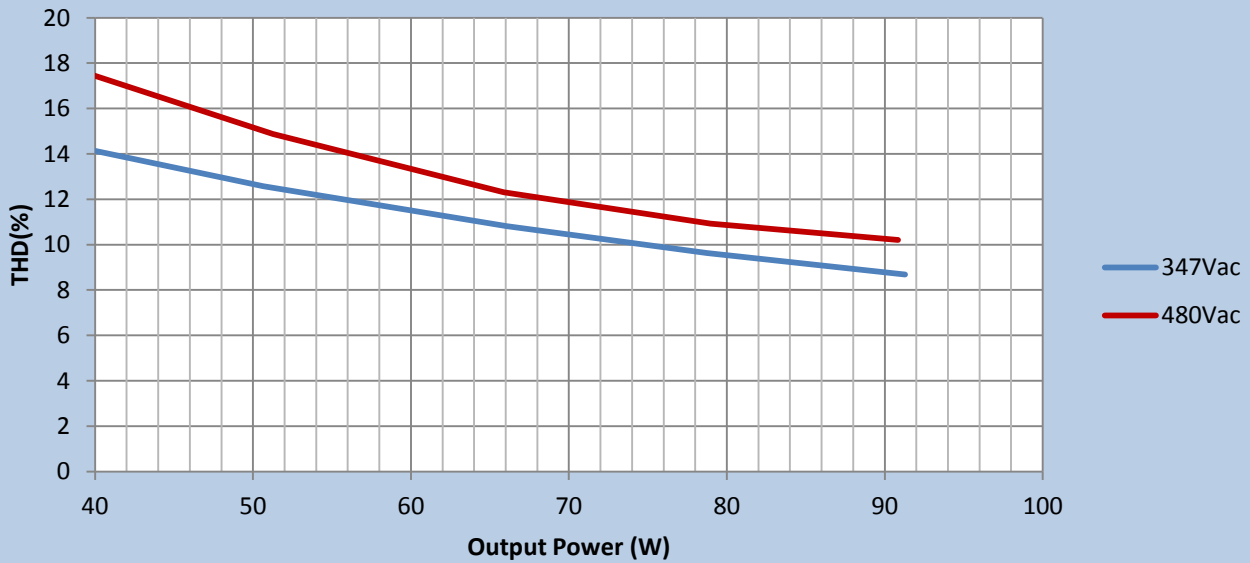
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Power Factor vs. Output Power @ 70C Tcase



THD vs. Output Power @ 70C Tcase



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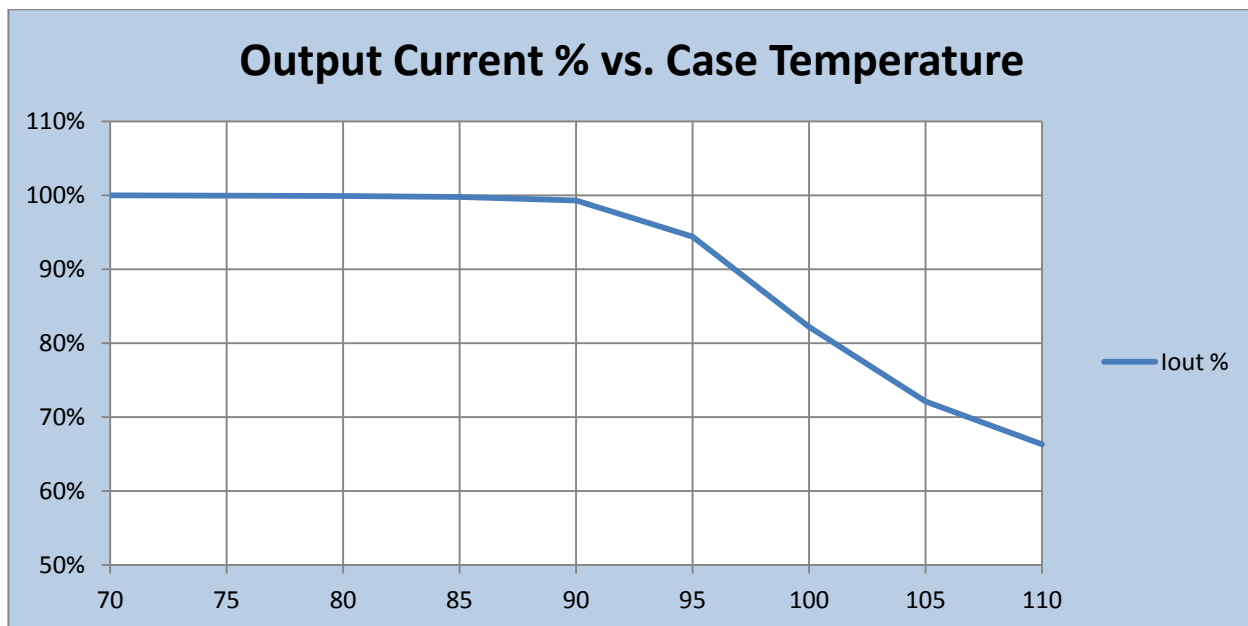
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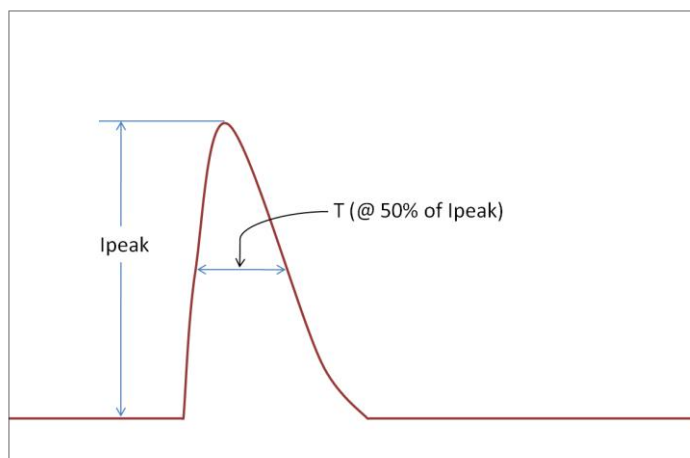
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Electrical Specifications

I_{out} vs. T_{case} of Driver:



Inrush Current Info:



V _{in}	I _{peak}	T (@ 50% of I _{peak})
347 V _{rms}	60 A	120 μs
480 V _{rms}	85 A	115 μs

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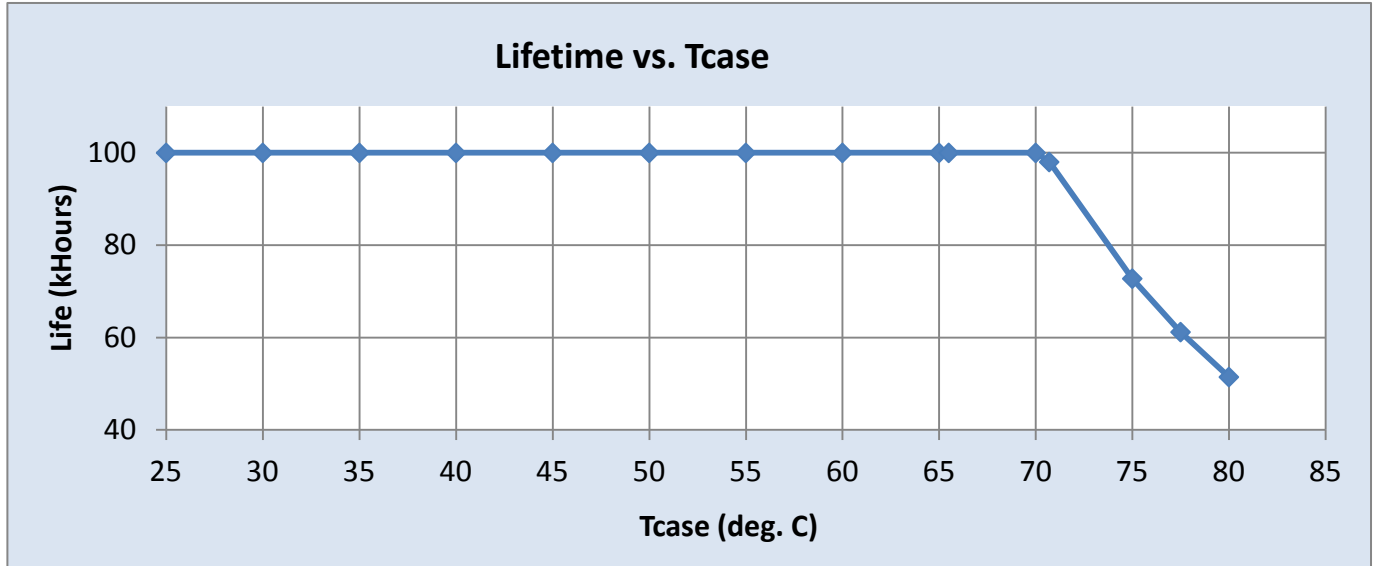


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Lifetime vs. Tcase of Driver:



Failure Rate Info:

- <0.01% per 1 kHr @ ≤ Tcase 70 C

Isolation:

Isolation	Input Wires	Output Wires	0-10V Wires	Chassis
Input Wires	NA	1750	1750	3750
0-10V Wires	1750	1750	NA	3750
Chassis	3750	3750	3750	NA

Revision History:

Rev No.	Date	Description	Approval	Remarks
1.1	02/02/2012	* Add Envir. Protecting Rating	N.T	
1.2	02/02/2012	*Add Cycling Temperature	N.T	
1.3	02/02/2012	*Add COA	N.T	

Revised 02/02/2012