

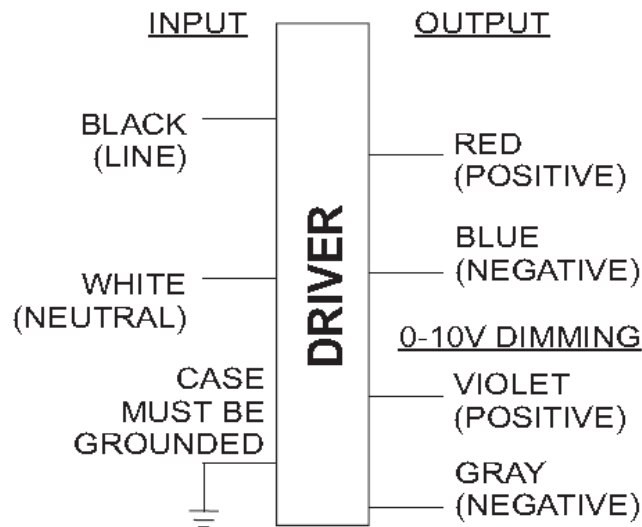
LEDINTA1050C140DOM

Electrical Specifications

Brand Name	XITANIUM
Description	XITANIUM 150W 1.05A 0-10V INT
Input Voltage	120~277
Input Frequency	50/60Hz
RoHS	Yes
Status	Active

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%-µs)		THD @ Max Load (%)	Power Factor @ Max Load	Surge Protection Common/Diff (KV)	Weight (Lbs/kgs)	Envir. Protection Rating
			120V	240V	277V		120V	230V	277V		120 Vin	55/160					
150	40 ~ 140	1.050	91.5	93.0	93.5	80 °C	1.37A	0.71A	0.59A	165	230 Vin	105/160	20	>0.9	3/3	2.8/ 1.27	UL Dry & Damp

Wire Diagram



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

Lead Length

Input: Black 270mm (±30mm), White 270mm (±30mm)
Output: Red 270mm (±30mm), Blue 270mm (±30mm)
Dimming: Violet 270mm (±30mm), Gray 270mm (±30mm)

Dimming Method	Dimming Range	Minimum Output Current (A)	Min (typ). Output Power(W)	Other Comments
1-10V Isolated	10% ~ 100%	0.105	42	Dimming source current: 150 µA

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)



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Product Data

Order code	LEDINTA1050C140DOM
Full product code	LEDINTA1050C140DOM
Full product name	Xitanium150W 1.05A 1-10V Dimming
Net weight per piece	1.27 KG / 2.8 lbs
Interfaces	1-10V Dimming
Ambient Temp Range	-40C to +55C
Corresponding Tcase	-15C to +80C
Cycling Temperature	-20C to -40C limited to (400cycles max)
Line Voltage	120-277V
Line Current	1.37A @ 120V, 0.59A @ 277V
Line Frequency	50/60Hz
Envir. Protection Rating	UL Dry & Damp
Life @ TC 65C	100000 hr [nom] refer to graph below
Life @ TC 75 C	50000 hr [nom] refer to graph below
Suitable for Outdoor use?	Yes
Max TC	80C
Inrush current Width	Refer to table
Maximum ballast number on MCB 16A	11 [max]
Input Over-voltage	Can survive input over-voltage stress of 320VAC for 48 hours and 350VAC for 2 hours
LED Current Tolerance	+/- 50mA
Earth leakage current	0.7 mA [max]
Mains voltage safety (AC)	+/-10%
Mains voltage performance (AC)	+/-10%
Min. Mains voltage operational	108 V [min]
Output peak voltage	155V [max]
Output Current ripple	30% @ 1050 mA (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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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 UL, CSA, FCC47 subpart 15 and CQC (TBD).

Section III – UL Conditions of Acceptability (File E321253)

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

- 3.1 The equipment shall be installed in compliance with the enclosure, enclosure, mounting, spacing, casualty and the segregation requirements of the ultimate application.
- 3.2 Consideration should be given to measuring the temperatures on electronic components of power circuits and transformer windings when the unit is installed in the end-use equipment based upon mounting orientation, operating ambient and ventilation. Magnetic components L2, T3, L5 and T2 employ Class 130(B) insulation.
- 3.3 These drivers should be used within the recognized ratings.
- 3.4 The driver is suitable for use in “DAMP” and “DRY” locations.
- 3.5 The maximum available output parameters from the (0-10 V) dimming circuit provided on LED driver were tested in accordance with supplement (SB) of UL935 and was found permissible for connection via Class 2 wiring.
- 3.6 When the drivers are installed in the end-use application, the case temperature should not exceed the temperature limits specified in the following table:

Model No.	Input Voltage, Hz	Max. Case @ Tc, °C
LEDINTA1050C140DO	120-277, 60 Horizontal	80

- 3.7 The maximum measured leakage current was 0.230 MIU while was connected to a 120 V branch source and 0.58 MIU while connected to a 277 V source of supply.

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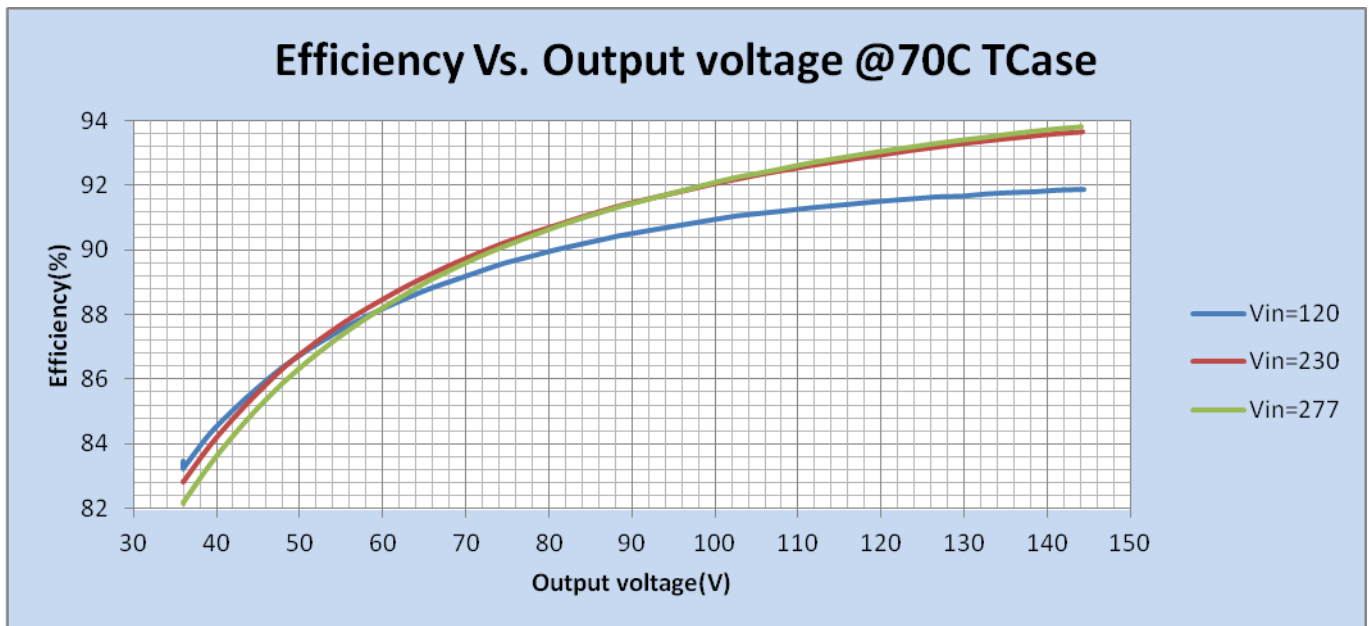
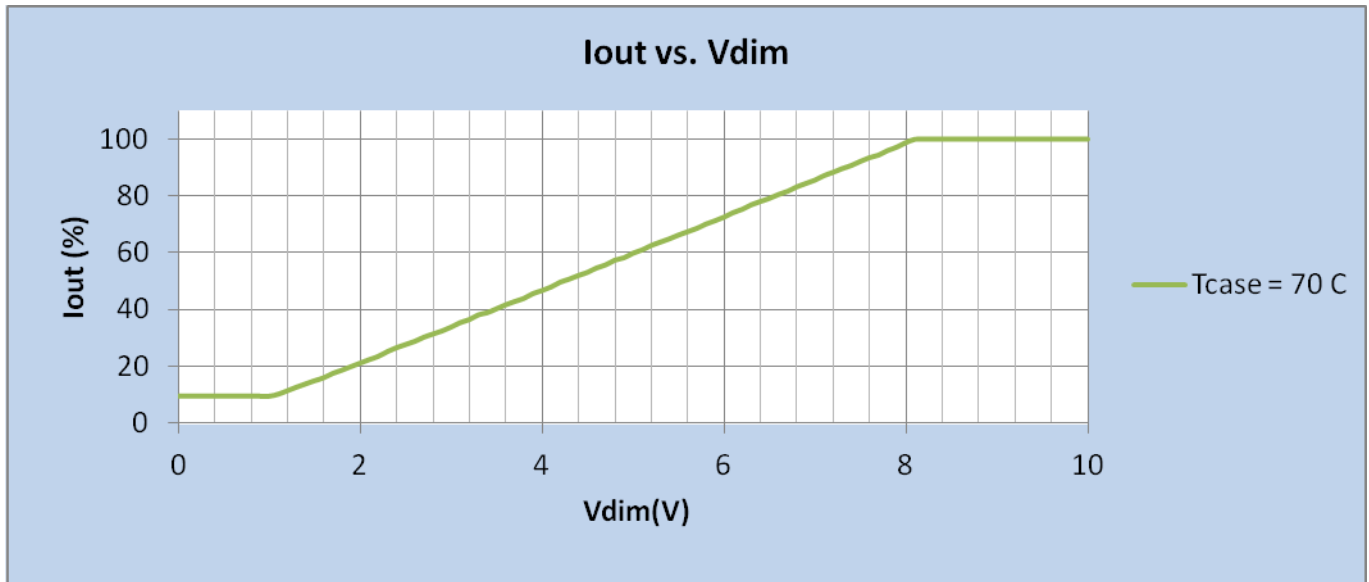
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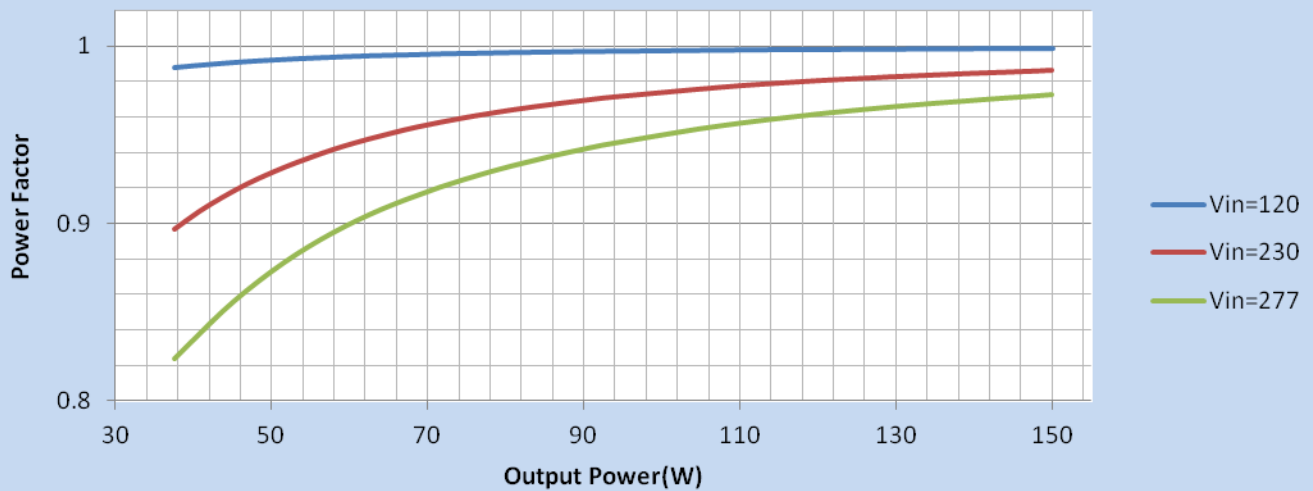


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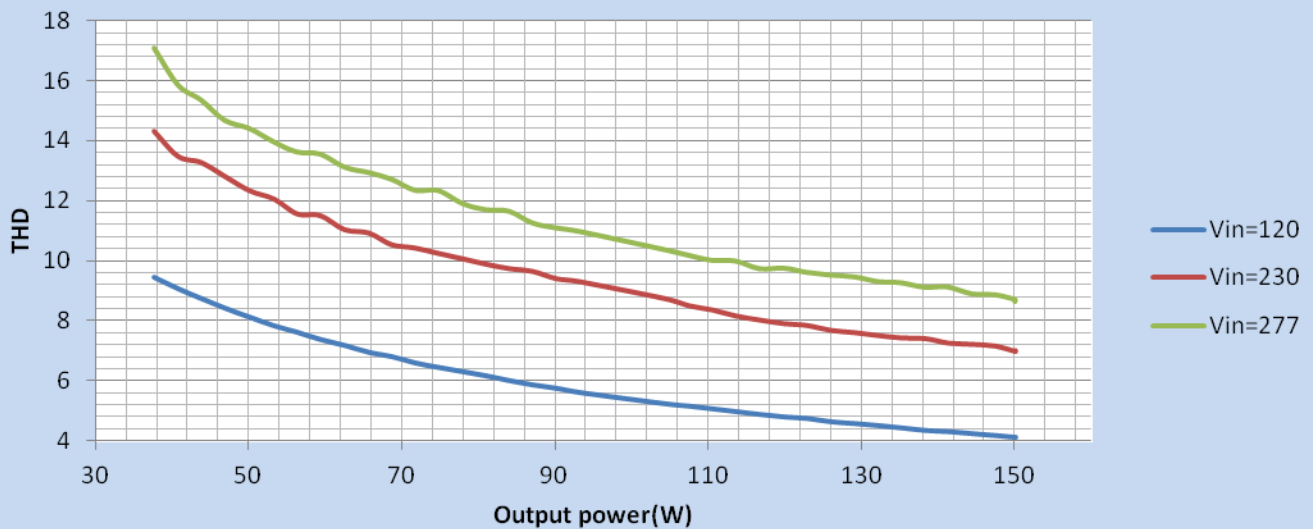
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Power factor Vs. Output Power @70C TCcase



THD Vs Output Power @70C TCcase



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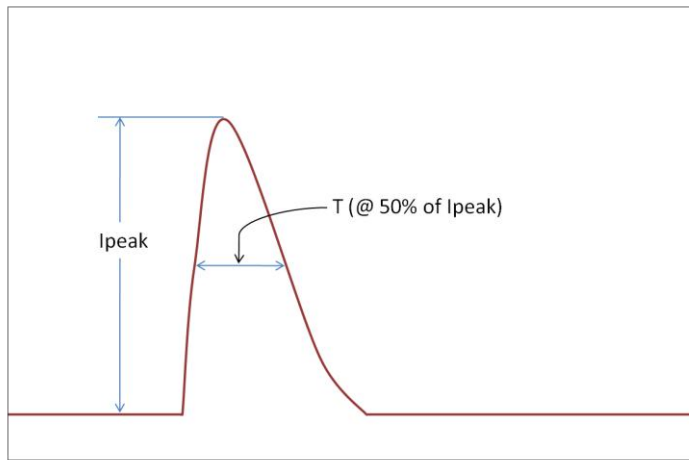
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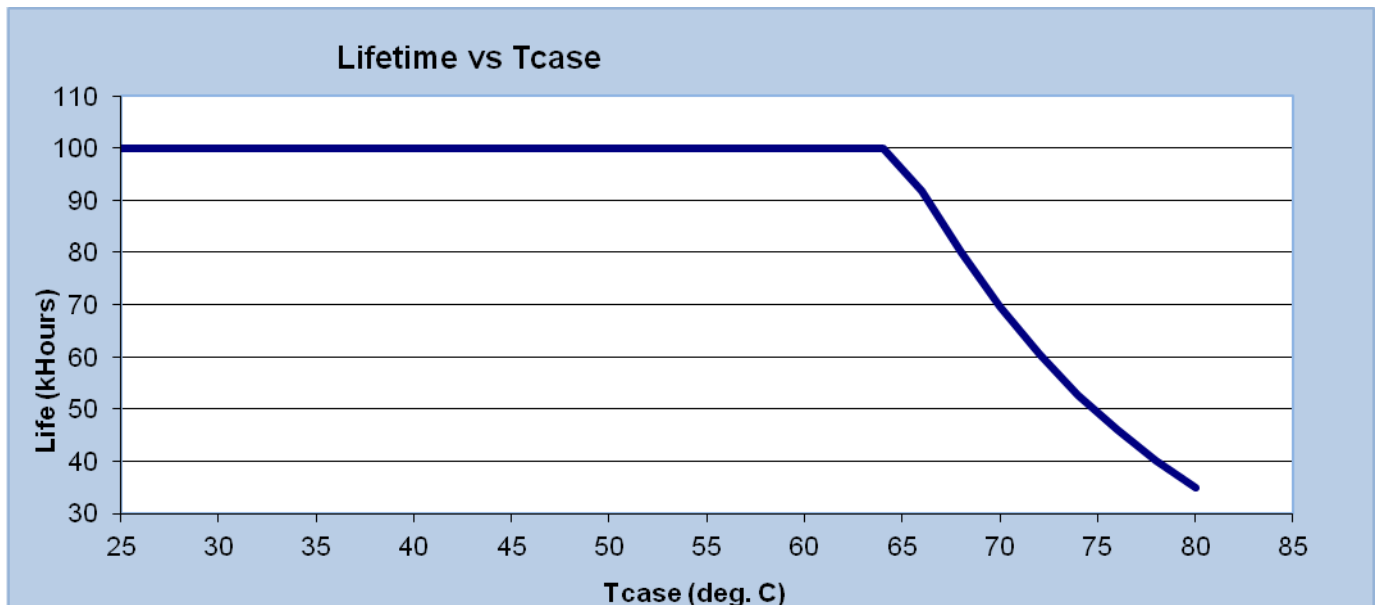
I_{out} vs. T_{case} of Driver:

Inrush Current Info:



V _{in}	I _{peak}	T (@ 50% of I _{peak})
120 Vrms	55 A	160 μs
230 Vrms	105 A	160 μs
277 Vrms	125 A	160 μs

Lifetime vs. T_{case} of Driver:



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Failure Rate Info:

1. <0.01% per 1 kWh @ \leq Tcase 80 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	11/17/2011	*Remove graph "Failure rate vs. Tcase	N.T.	
1.2	01/13/2012	* Add Envir. Protection Rating	N.T.	
1.3	02/27/2012	*Add Cycling Temperature to Product Data Table	N.T.	

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