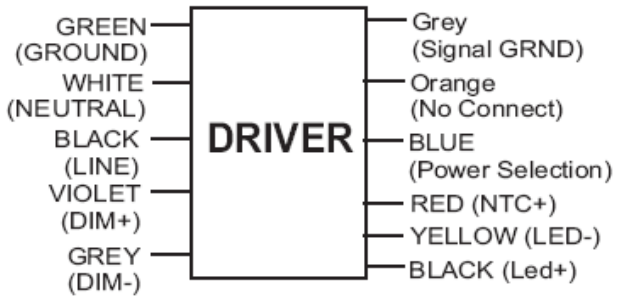
PHILIPS

LEDINTA1000C60DBM	
Brand Name	XITANIUM
Description	**Xitanium .7-1.05A 60V 0-10V Dim**
Input Voltage	120-277V
Input Frequency	50/60Hz
RoHS	Yes
Status	Active

Electrical Specifications

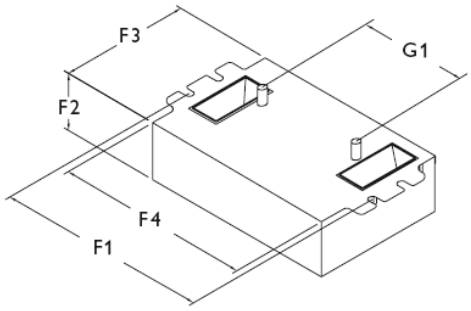
Max. Output Power (W)	Output Voltage (V)	Output Current (A)	Tcase Max	MaxInput Current at 120V (A)	Max. Input Power (W)	Inrush Current (A_{pk} .µs)	Max. THD (%)	Min. Power Factor	Surge Protection (KV)	Weight (Lbs)	Envir. Protection Rating
50	25-48	700-1050mA	75°C	0.5	59	74-120	20	0.9	2.5	1.5	UL Dry & Damp

Wiring/Connection Diagram



Input, Output and for 1-10V Dimming, please use lead-wires18AWG (0.78mm²) 105C/600V solid copper.

Dimming Method	Dimming Range (%)	Min. Output Power (W)
0-10V	10% ~ 100%	25



F1	F2	F3	F4	G1
4.55" (116.6)	1.18" (30.0)	3.00" (76.4)	4.20" (106.7)	2.0" (50.8)

	in. (mm)
Case Length(F4)	4.2 (106.7)
Case Height(F2)	1.18 (30.0)
Case Width(F3)	3.0 (76.4)
Mounting Length(F1)	4.55(116.6)
Width(G1)	2.0 (50.8)
Overall Length	9.54 (240.5)

C US Power Unit Dry & Damp location

RoHS COMPLIANT 2002/95/EC

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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 certified by UL Class2 for use in a dry or damp location..
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 ≤ 70°C.
2.5 LED Driver has a life expectancy of 100,000 hours at Tcase of ≤ 62°C.
2.6 LED Driver has a maximum self rise of 25°C in open air without heat sink.
2.7 LED Driver maximum allowable case temperature is 75°C – see product label for measurement location
2.8 LED Driver reduces output power to LEDs if maximum allowable case temperature is exceeded.
2.9 LED Driver has a failure rate ≤ 0.01% per 1,000 hours at Tcase ≤ 70°C.
2.10 LED Driver has a failure rate of 0.01% - 0.02% per 1,000 hours at Tcase of 70°C - 80°C.
2.11 LED Driver tolerates sustained open circuit and short circuit output conditions without damage.
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)

3.1 The maximum available output parameters of the driver met the limitation for Class 2 Inherently limited parameters as specified in Table 30.1 of the UL1310 standard for Class 2 Power Units
3.2 The maximum available output current and power parameters of the driver met the limitation for Class 2 inherently limited in accordance with the Canadian Standard CSA C22.2 No. 223. However, the rated output voltage exceeds the specified limit of 42.4V DC/Peak limit specified in the CSA standard. Therefore, for end products intended for sale in Canada CSA TIL No. O-18 construction requirement will need to be applied.
3.3 Primary wiring to be 18-AWG-Solid-Copper wire rated 600V minimum, 105°C. Strip wire 3/8 in. prior to inserting into primary terminal blocks.
3.4 The primary and secondary terminal blocks are R/C (XCFR2/XCFR8) suitable for field wiring.
3.5 The Driver is suitable for use in “Dry” and “Damp” locations.
3.6 The driver enclosure temperature in the end-use application should not exceed 86.1°C at the (Tc) location specified on the marking label.
3.7 The need for a leakage current test must be determined in the end-use product. The maximum measured and recorded leakage current using leakage current tester by Simpson model 229-2 was 0.34mA.
3.8 The enclosure must be connected to earth ground in the end-use application.
3.9 Enclosure considered a suitable electrical enclosure when Input / Output connection side of the enclosure of the driver is provided with a suitable electrical enclosure in the end use product.

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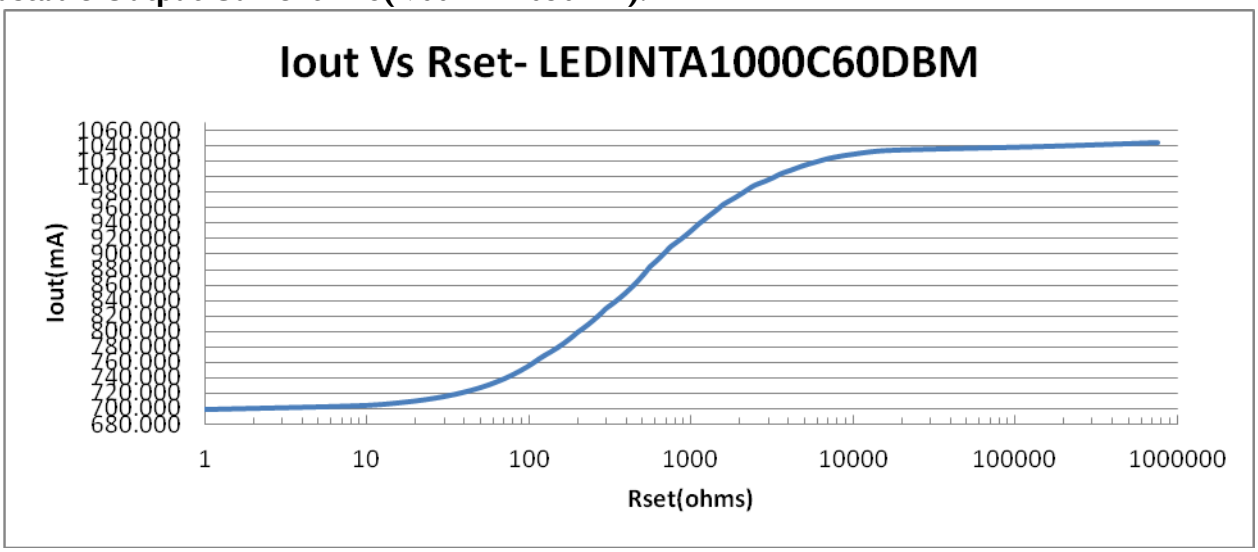
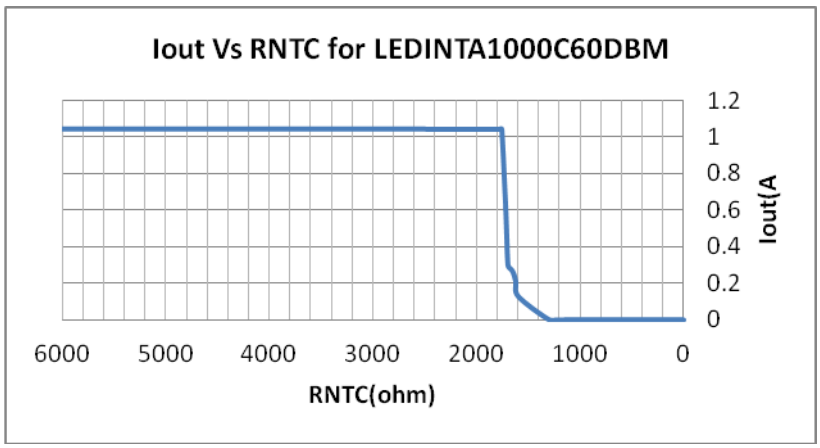
Adjustable Output Current Info(700mA-1050mA):



RSET(kohms)	0-0.001	0.088	0.2	0.391	0.67	1.283	3.225	7.229	755.5
Iout(mA)	699	750	800	850	900	950	1000	1025	1044

Variation of output current level with R_{NTC}:



Here, if RNTC<1800Ω, then Iout is reduced to 100mA.

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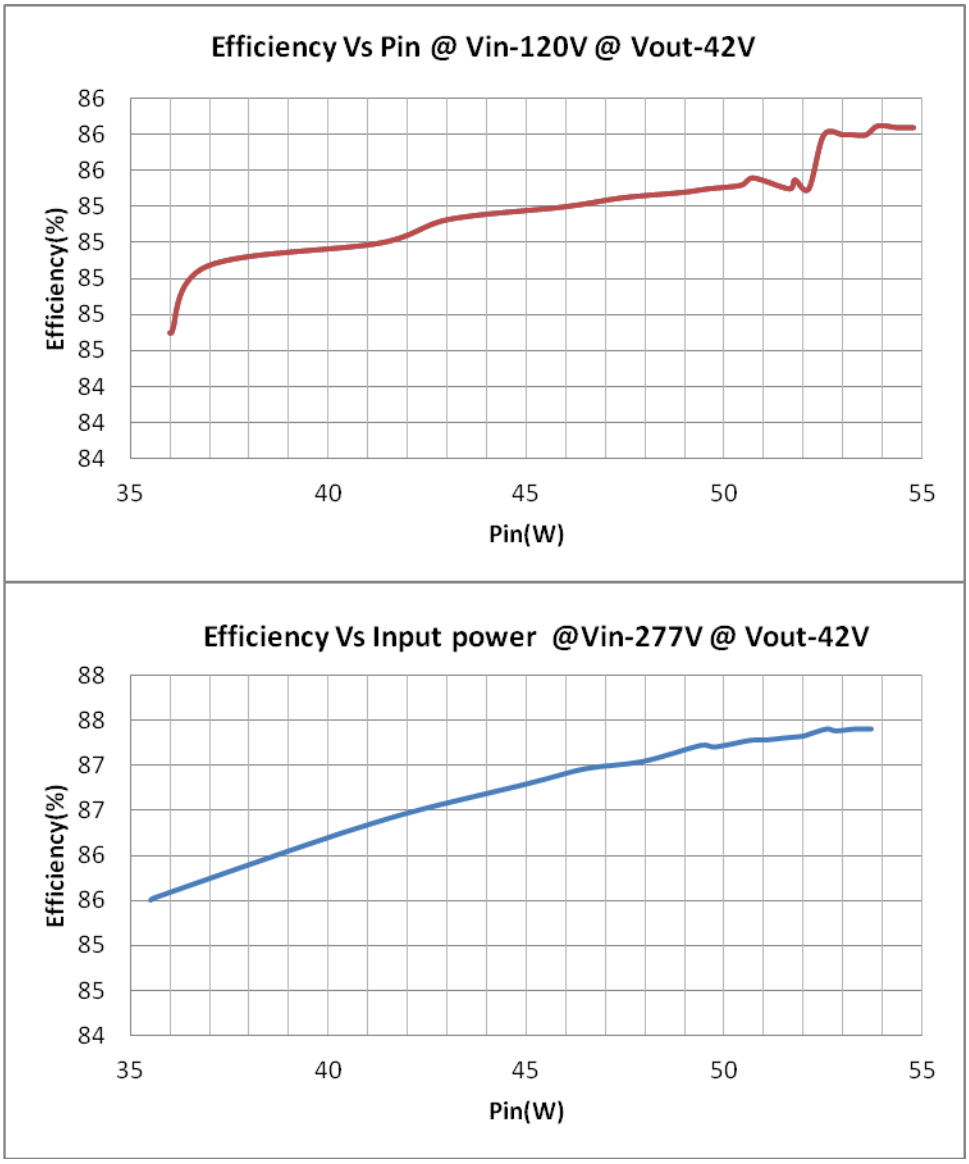
Efficiency of the driver VS Input Power@ Constant LED Voltage 42V:



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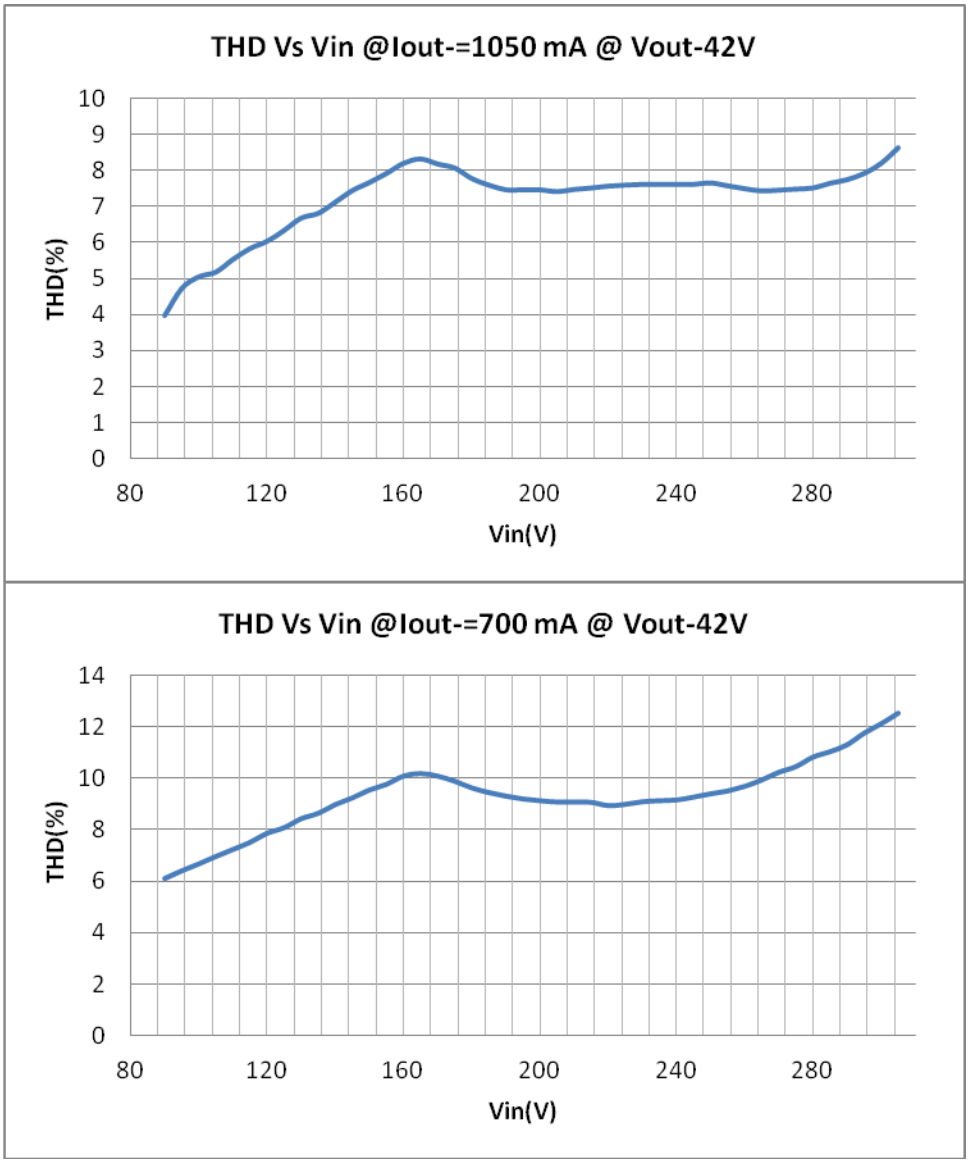
THD of the driver VS Input Voltage@ Constant LED Voltage 42V:



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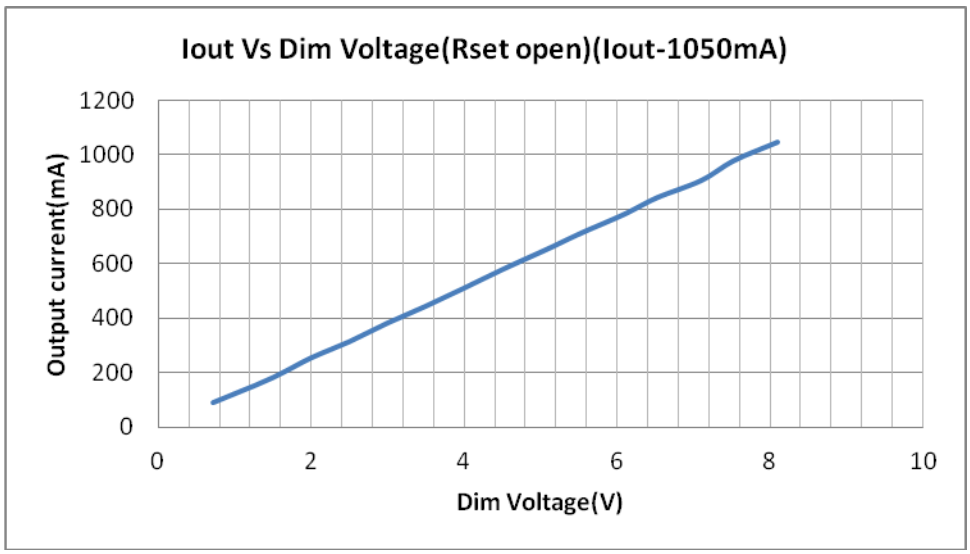
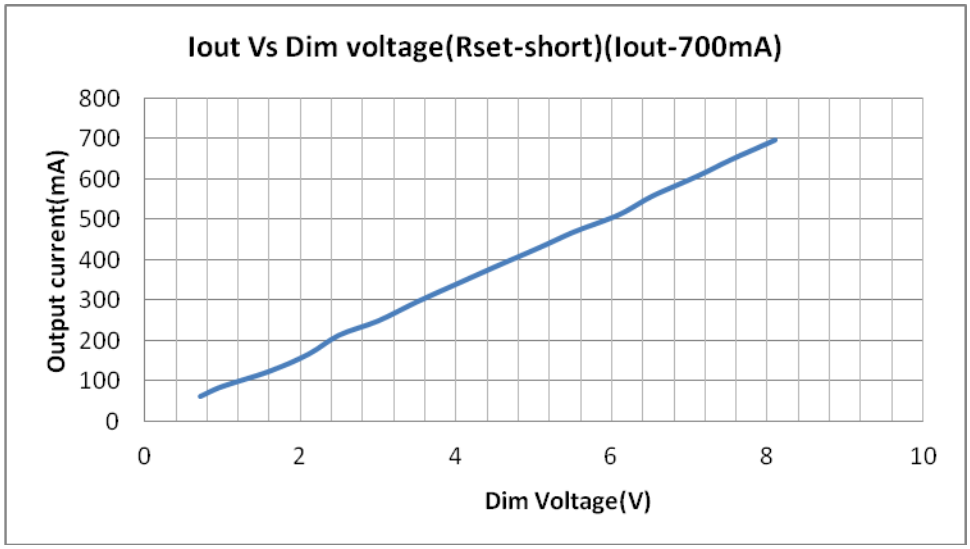
0-10V Dimming Info:





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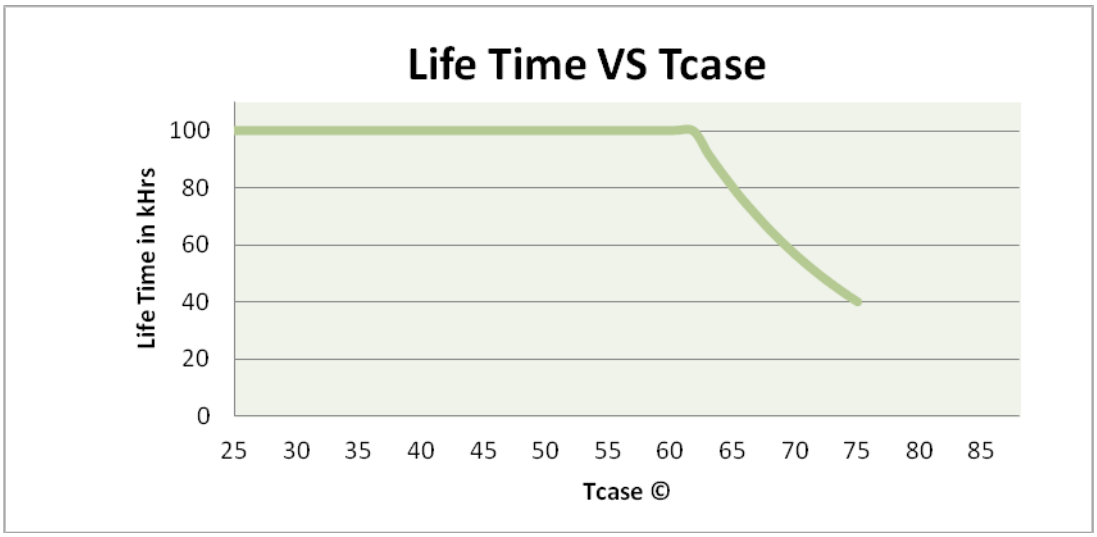
Compatible Dimmers (Please verify with vendors):

Wallbox Dimmer - Mark 7 *0-10V*

Control Manufacturer	Wallbox Dimmer	Power Booster Available
Douglas Lighting Controls	WPC-5721	
Entertainment Technology	Tap Glide TG600FAM120 (120V) Tap Glide Heatsink TGH1500FAM120 (120V) Oasis OA2000FAMU (120/277V)	
Honeywell, Inc.	EL7315A1019 and EL7315A1009	EL7305A1010 (optional)
HUNT Dimming	Preset slide: PS-010-IV-120V and PS-010-WH-120V Preset slide: PS-010-3W-IV-120V and PS-010-3W-WH-120V Preset slide: PS-010-IV-277V and PS-010-WH-277V Preset slide: PS-010-3W-IV-277V and PS-010-3W-WH-277V Preset slide, controls FD-010: PS-IFC-010-IV- and PS-IFC-010-WH-120/277V Preset slide, controls FD-010: PS-IFC-010-3W-IV- and PS-IFC-010-3W-WH-120/277V Remote mounted unit: FD-010-120V and FD-010-277V	
Lehigh Electric Products Co.	Solitaire	PBX
Leviton Lighting Controls Div.	Leviton Centura Fluorescent Control System IllumaTech™ IP7 Series	CN100 PE300
Lightolier Controls	Sunrise Preset slider ZP600FAM120 (120V) Momentum Preset slider MP1500FAM120 (120V) Vega Slider V2000FAMU (120/277)	
Lithonia Controls	ISD BC SLD LPCS Digital Equinox (DEQ BC)	 RDM FC
Lutron Electronics Co., Inc.	Visit www.lutron.com/advance for the latest control information and selection	
PDM Electrical Products	WPC-5721	
Starfield Controls	TR61 with DALI interface port	RT03 DALInet Router
The Watt Stopper, Inc.	LS-4 used with LCD-101 and LCD-103	



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Revision History:

Rev No.	Date	Description	Approval	Remarks
1.1	11/17/2011	*Remove graph "Failure rate vs. Tcase	N.T.	
1.2	01/24/2012	* Add Envir. Protection Rating	N.T.	

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