

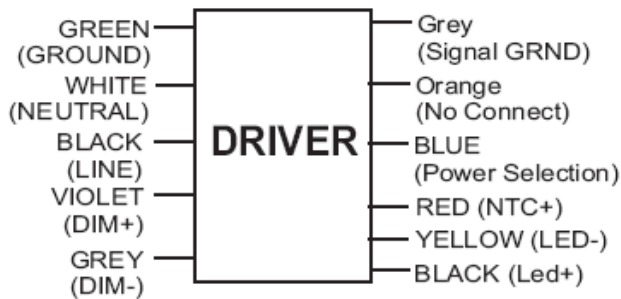
LEDINTA0520C80DB

Brand Name	XITANIUM
Driver Type	Xitanium .35-.52A 80V 0-10V Dim
Input Voltage	120-277V
Input Frequency	50/60Hz
RoHS	Yes
Status	Active

Electrical Specifications

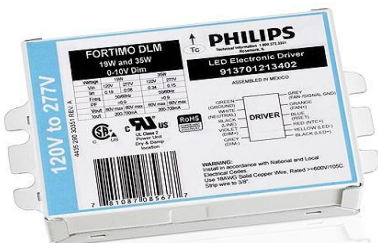
Max. Output Power (W)	Output Voltage (V)	Output Current (A)	Operating Temp. Range (°F/°C)	Max Input Current at 120V (A)	Max. Input Power (W)	Inrush Current (A _{pk} , μs)	Max. THD (%)	Min. Power Factor	Surge Protection (KV)	Weight (Lbs)	Envir. Protection Rating
40	40-77	350-520mA	-20~55°C	0.36	47	74-120	20	0.9	2.5	0.7	UL Dry & Damp

Wiring/Connection Diagram



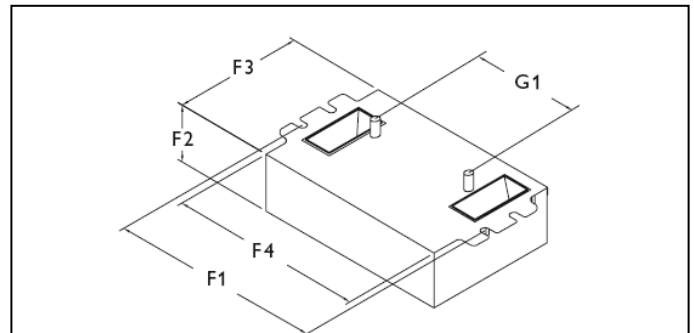
Leave Blue unconnected to Grey for 520mA, Connect Blue to Grey for 350mA.

Input, Output and for 1-10V Dimming, please use lead-wires 18AWG (0.78mm²) 105C/600V solid copper.



To be updated

Dimming Method	Dimming Range (%)	Min. Output Power (W)
0-10V	10% ~ 100%	20



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)
Stud Width(G1)	2.0 (50.8)





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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 Class I for use in a dry or damp location..
- 2.2 LED Driver has Class A sound rating.
- 2.3 LED Driver has an operating ambient temperature range of -20°C to 55°C.
- 2.4 LED Driver has a maximum life expectancy of 50,000 hours at Tcase of ≤ 70°C.
- 2.5 LED Driver has a maximum life expectancy of 100,000 hours at Tcase of ≤ 62°C.
- 2.6 LED Driver has a typical 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 its 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 driver shall be installed in compliance with the enclosure, mounting, spacing, casualty and segregation requirements of the end product.
- 3.2 The driver enclosure temperature in the end-use application should not exceed 74°C at the (Tc) location specified on the marking label.
- 3.3 The driver is suitable for use in “DRY” and also suitable for “DAMP LOCATION”.
- 3.4 Primary and Secondary wiring to be 18 AWG solid copper wire, rated 600V minimum, 105°C. Strip wire 3/8 in prior to inserting into primary/secondary terminal blocks.
- 3.5 The dimming circuit is not isolated and shall be considered as a primary circuit in the end-use application.
- 3.6 The leakage current test must be performed in the end-use application. However, the leakage current was measured using leakage current tester by Simpson model 229-2 and the maximum measured current was 0.301mA.
- 3.7 The driver was evaluated as a “Direct”; “Non-Isolating” type despite the use of isolating transformers in the circuit design. Therefore, the output circuit shall be considered as a primary circuit in the end-use application.
- 3.8 The enclosure must be connected to earth ground in the end-use application.
- 3.9 The construction of the enclosure of the drivers is considered a suitable electrical enclosure only when the Input/Output terminal block side of the enclosure is installed and provided with a suitable electrical enclosure in the end use product.

Revised 01/24/2012

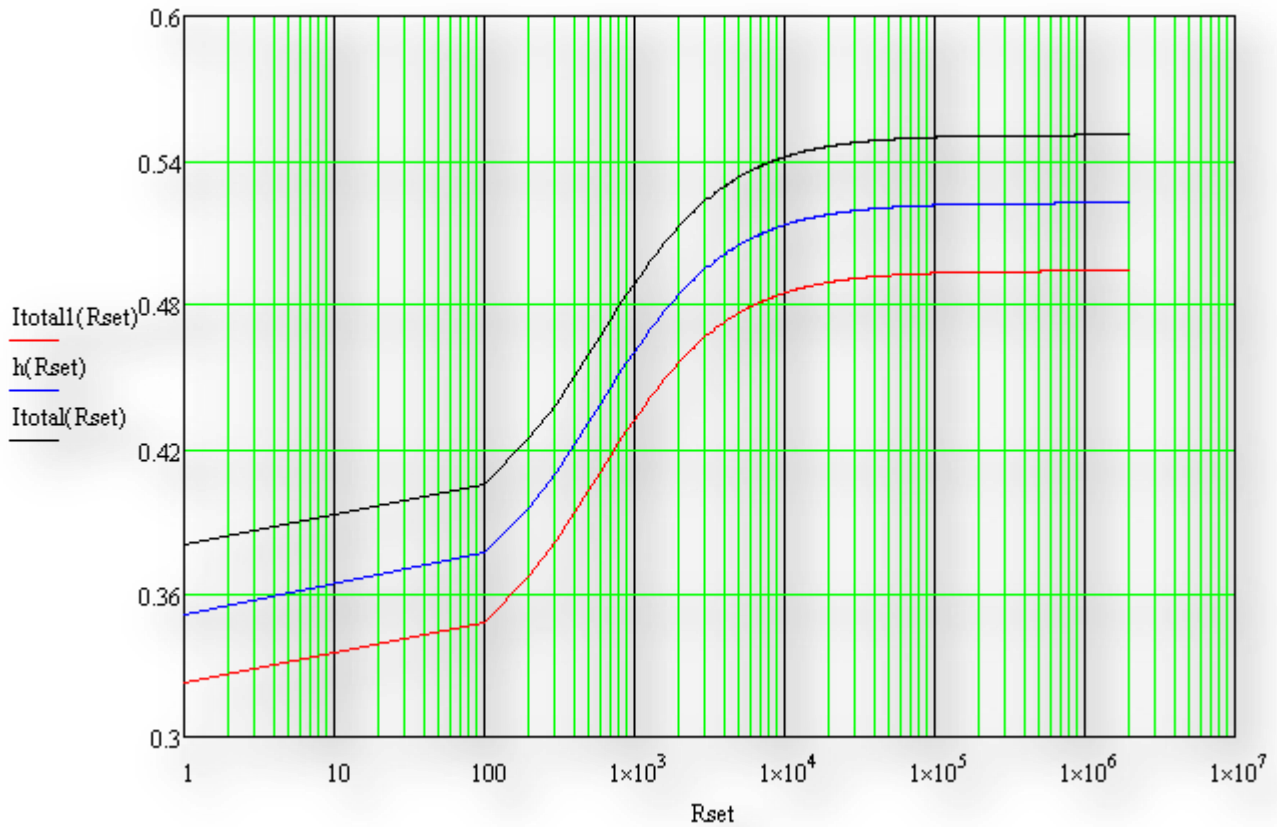
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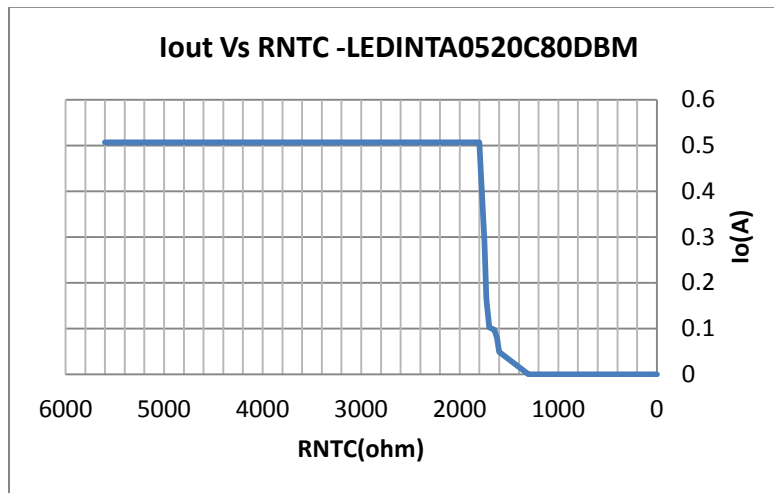
Adjustable Output Current Info (350mA-520mA):



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Variation of output current level with R_{NTC} :

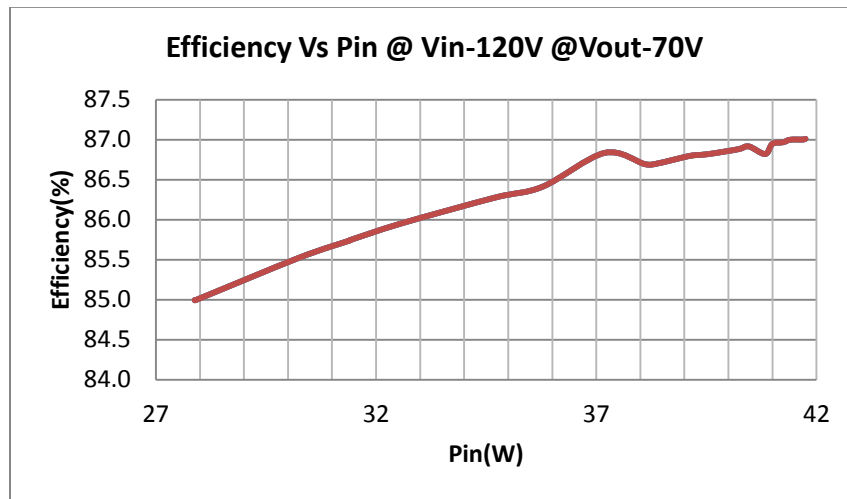


Here, if $R_{NTC} < 1800\Omega$, then I_{out} is reduced to 90Ma.

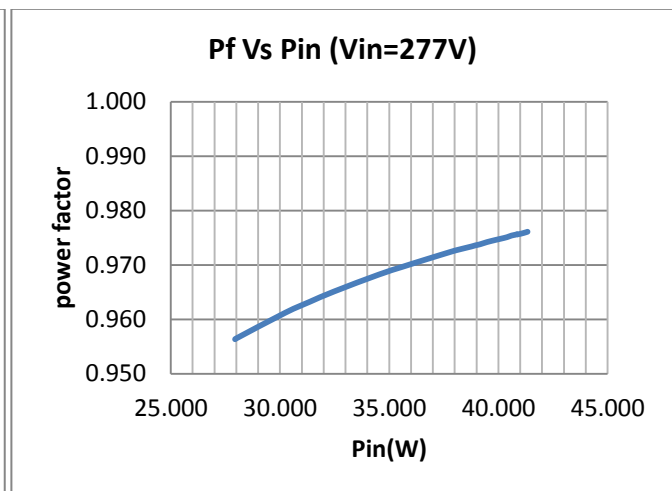
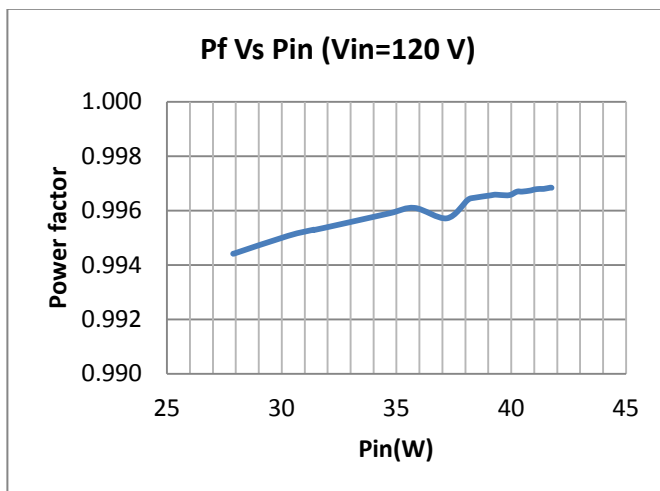


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Efficiency of the driver VS Input Power@ Constant LED Voltage 70V



PF(Power Factor) VS Pin @120V and 277V:



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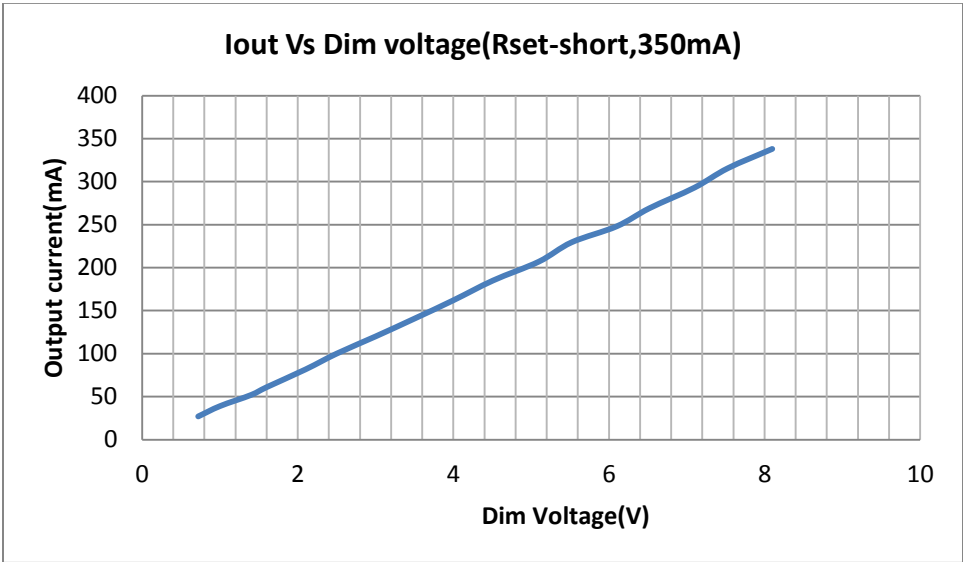
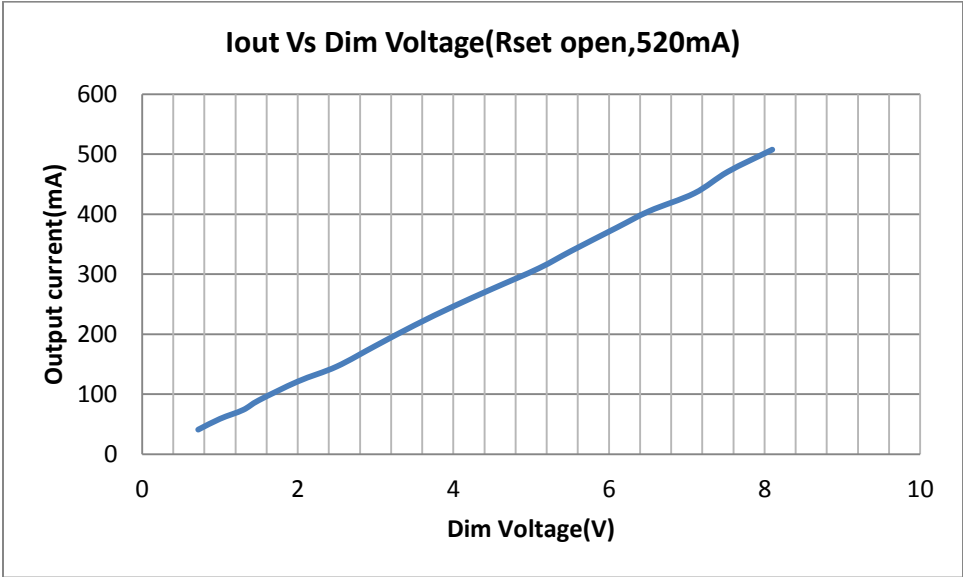
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0-10V Dimming Info:



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Compatible Dimmers(Please verify with vendors):

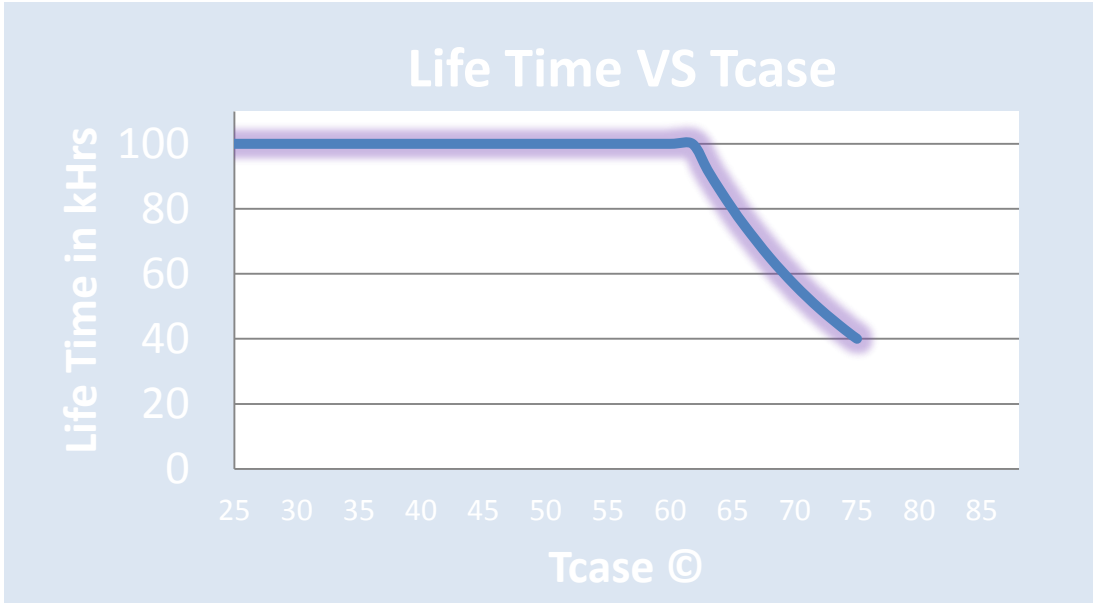
Wallbox Dimmer - Mark 7 0-10V

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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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	01/24/2012	* Add Envir. Protection Rating	N.T.	

Revised 01/24/2012