

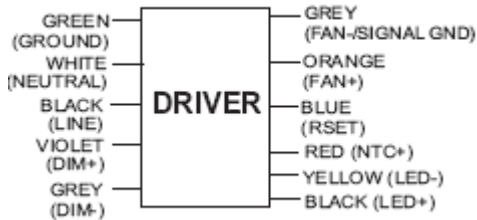
913701213402

Brand Name	XITANIUM
Description	Xitanium .2-.7A 56V 0-10V Dim
Input Voltage	120-277V
Input Frequency	50/60Hz
RoHS	Yes
Approbations	UL,CSA
Status	Active

Electrical Specifications

Max. Output Power (W)	Output Voltage (V)	Output Current (A)	Tcase Max	Max Input Current at 120V (A)	Max. Input Power (W)	Inrush Current (A _{pk} .50% μs)	Max. THD (%)	Min. Power Factor	Surge Protection (KV)	Weight (Lbs)	Envir. Protection Rating
39	20-56	200-700mA	75°C	0.34	44	74/120	20	>0.9	2.5	0.7	UL Dry & Damp

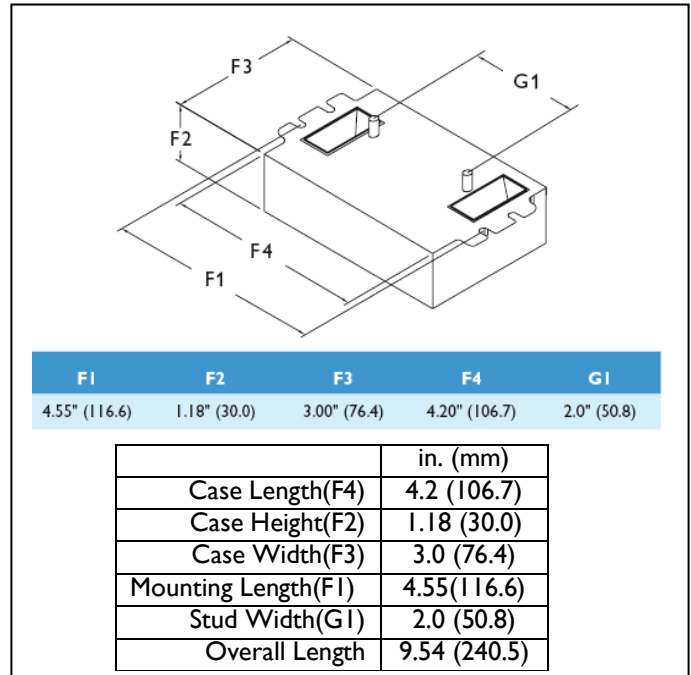
Wiring/Connection Diagram



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



Dimming Method	Dimming Range (%)
0-10V	10% ~ 100%



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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)

Conditions of Acceptability -

- 3.1 The maximum available output parameters of the driver met the Class 2 Inherently limited parameters.
- 3.2 Deleted
- 3.3 The primary and the secondary terminal blocks are R/C (XCFR2/XCFR8) suitable for field wiring.
- 3.4 The Driver is suitable for use in “Dry” and “Damp” locations.
- 3.5 When the driver is installed in the end-use application, the measured case temperature at the (Tc) location specified on the marking label must not exceed 77.6 °C.
- 3.6 For Cat. No. 9137 012 13402 temperature test was conducted at a Tc of 90 °C and is in compliance with UL 8750 requirements.
- 3.7 The driver shall be installed in compliance with the requirements of the end product standard.
- 3.8 The maximum measured leakage current using leakage current tester by Simpson Model 229-2 was 0.62 mA for model 913701213402. The maximum measured leakage current was 0.45 MIU using a Simpson 228 on model LED-INTA-0520C-60DB.
- 3.9 The “Fan” and the “Dimming” circuits are part of the Class 2 output circuit.
- 3.10 The case of the driver must be connected to Earth ground when installed in the end-use application.

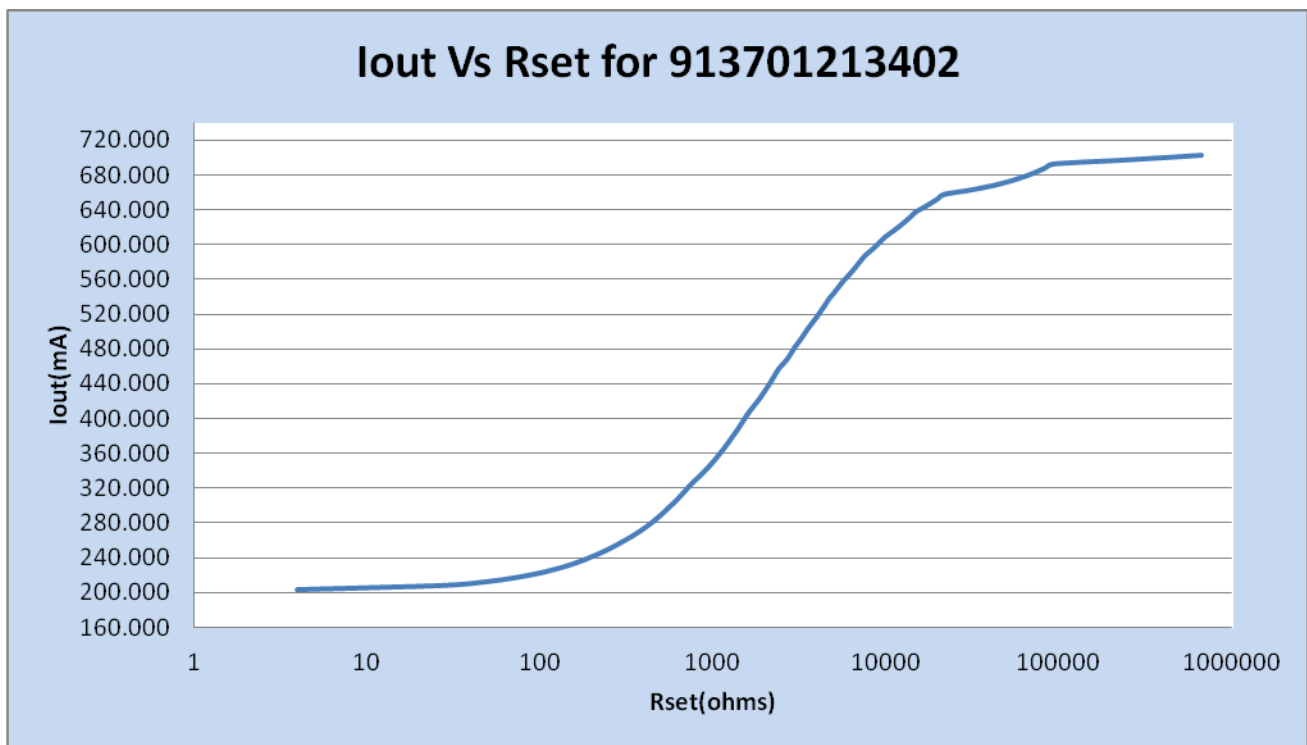
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Adjustable Output Current Info (200mA-700mA):



Relation between output current and Rset (+/- 10% variation)



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Rset1 (Ω)	Iout (mA)	Rset1 (Ω)	Iout (mA)	Rset1 (Ω)	Iout (mA)	Rset1 (Ω)	Iout (mA)	Rset1 (Ω)	Iout (mA)
0	190.797	16	194.735	300	255.740	5100	554.546	91000	690.074
1	191.045	18	195.223	330	261.337	5600	564.131	100000	691.070
1.1	191.070	20	195.710	360	266.796	6200	574.102	110000	691.989
1.2	191.095	22	196.196	390	272.120	6800	582.722	120000	692.757
1.3	191.120	24	196.681	430	279.020	7500	591.410	130000	693.409
1.5	191.169	27	197.407	470	285.701	8200	598.913	150000	694.456
1.6	191.194	30	198.131	510	292.174	9100	607.177	160000	694.883
1.8	191.243	33	198.853	560	299.987	10000	614.207	180000	695.595
2	191.293	36	199.573	620	308.978	11000	620.882	200000	696.166
2.2	191.342	39	200.290	680	317.575	12000	626.607	220000	696.635
2.4	191.392	43	201.244	750	327.141	13000	631.571	240000	697.026
2.7	191.466	47	202.194	820	336.241	15000	639.755	270000	697.505
3	191.540	51	203.141	910	347.311	16000	643.167	300000	697.888
3.3	191.615	56	204.319	1000	357.730	18000	648.970	330000	698.203
3.6	191.689	62	205.725	1100	368.609	20000	653.721	360000	698.465
3.9	191.763	68	207.124	1200	378.821	22000	657.681	390000	698.687
4.3	191.862	75	208.745	1300	388.425	24000	661.034	430000	698.935
4.7	191.960	82	210.356	1500	406.013	27000	665.198	470000	699.142
5.1	192.059	91	212.412	1600	414.086	30000	668.583	510000	699.315
5.6	192.183	100	214.451	1800	428.977	33000	671.389	560000	699.498
6.2	192.331	110	216.696	2000	442.400	36000	673.752	620000	699.678
6.8	192.478	120	218.921	2200	454.562	39000	675.770	680000	699.827
7.5	192.651	130	221.125	2400	465.633	43000	678.042	750000	699.971
8.2	192.823	150	225.474	2700	480.495	47000	679.944	820000	700.090
9.1	193.044	160	227.619	3000	493.594	51000	681.559	910000	700.216
10	193.266	180	231.852	3300	505.226	56000	683.265	1000000	700.319
11	193.511	200	236.010	3600	515.625	62000	684.961		
12	193.756	220	240.094	3900	524.977	68000	686.366		
13	194.001	240	244.108	4300	536.073	75000	687.729		
15	194.491	270	249.999	4700	545.856	82000	688.864		

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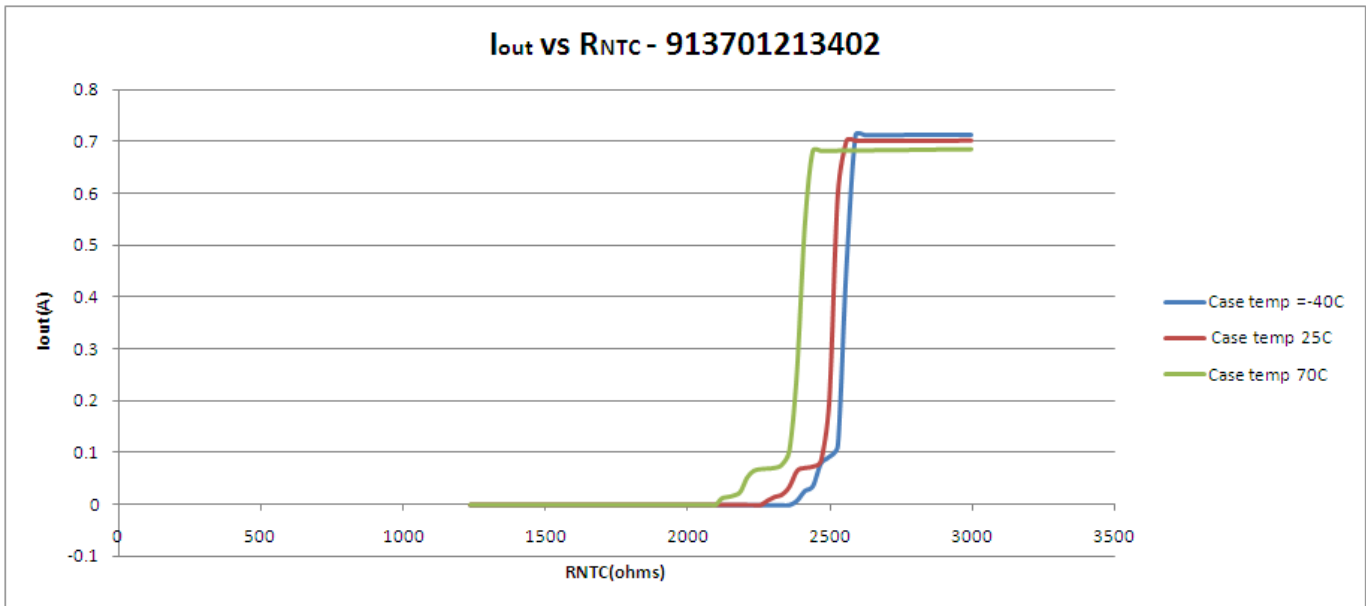
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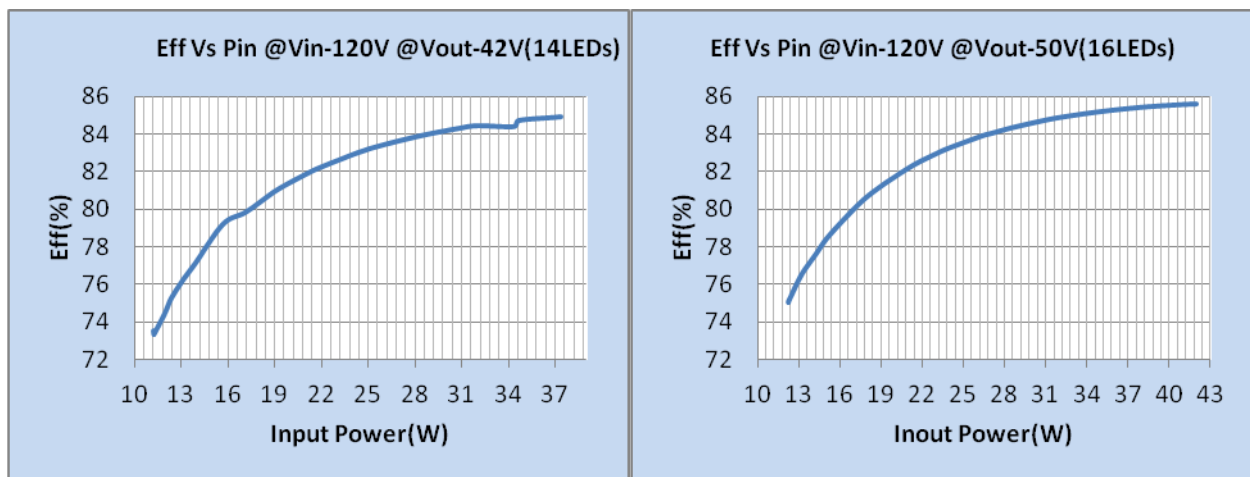


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Variation of output current level with R_{NTC} :



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

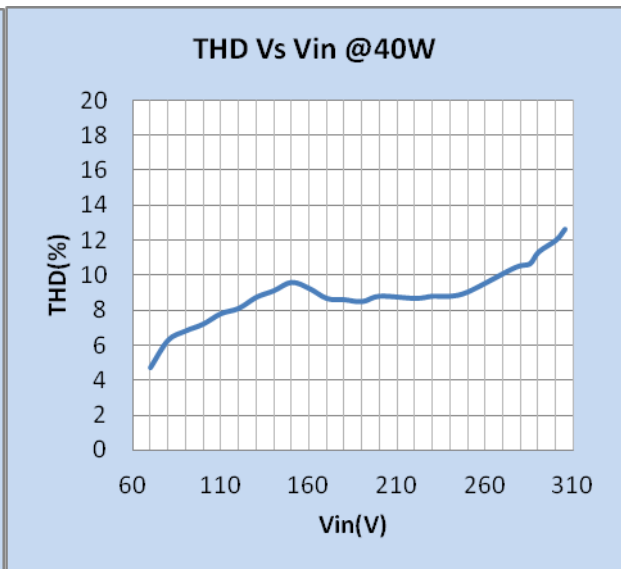
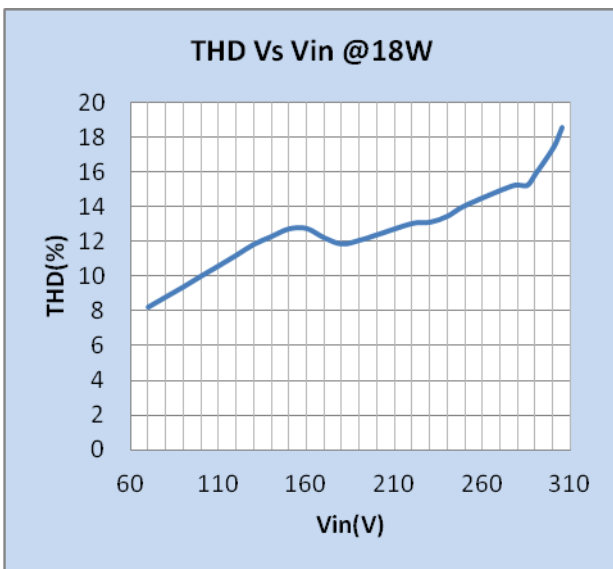
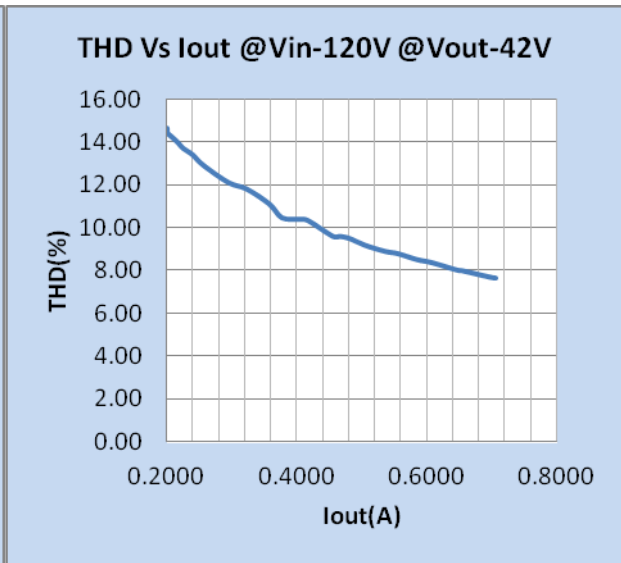
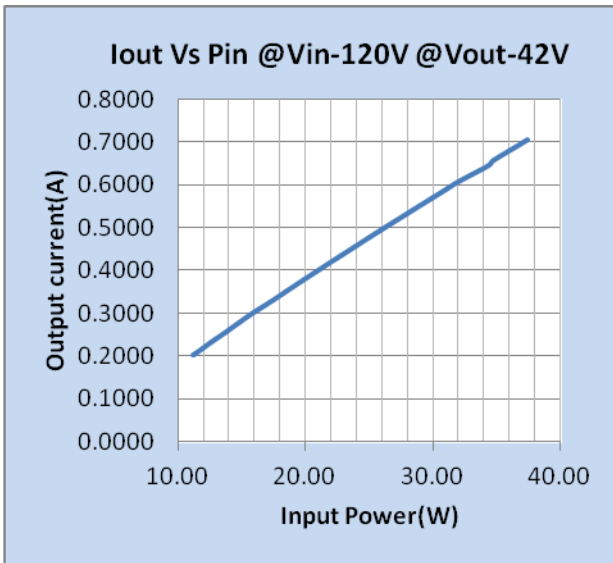


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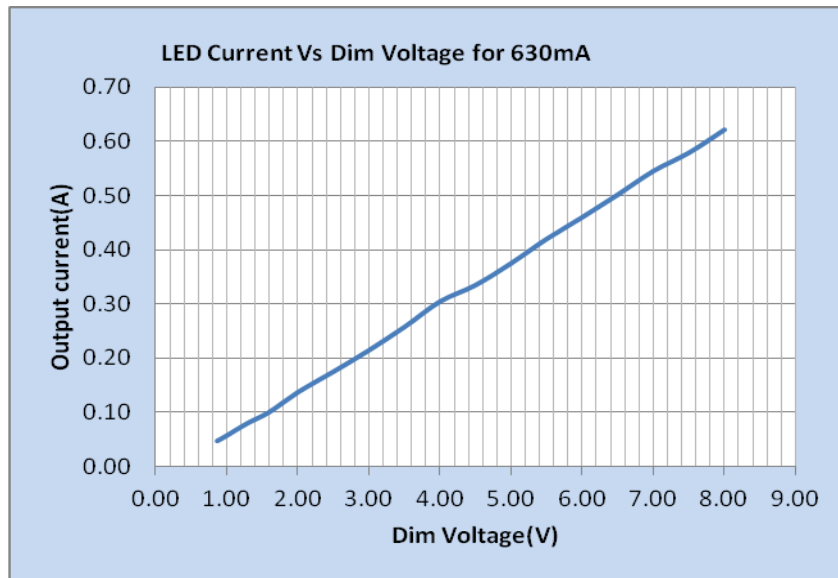
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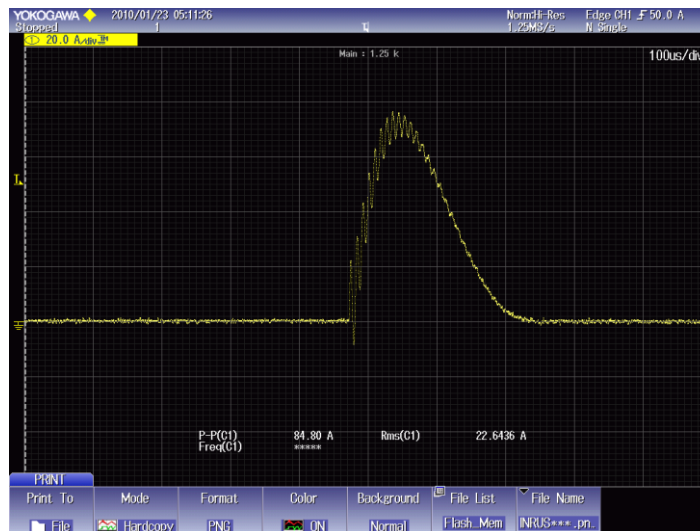
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0-10V Dimming Info:



Inrush Current Info:

Measured @400VDC



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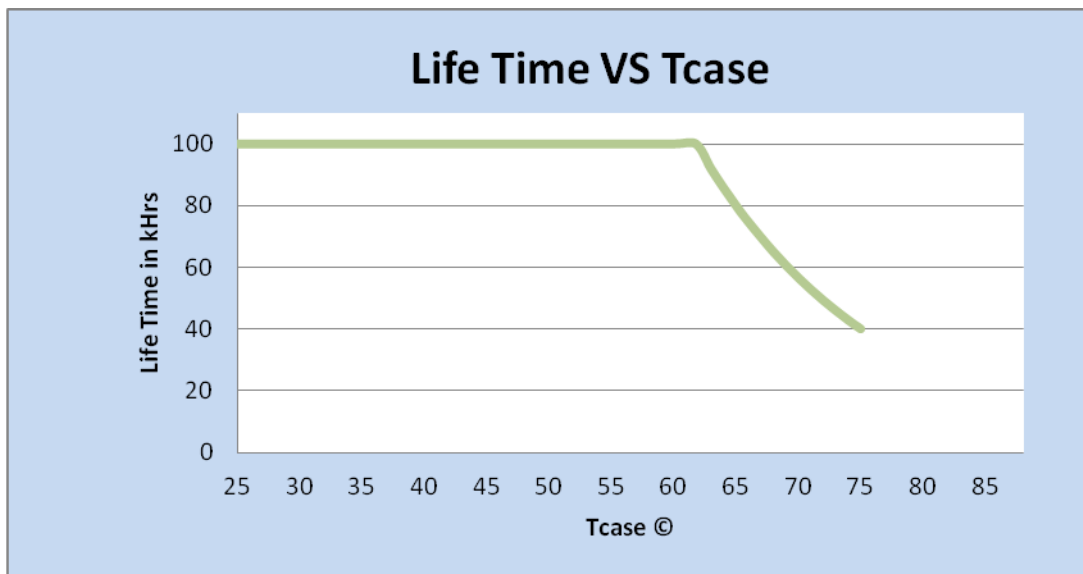


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Compatible Dimmers (Please verify with vendors):

Wallbox Dimmer - Mark 7 0-10V

Control Manufacturer	Wallbox Dimmer	Power Booster Available
Douglas Lighting Controls	WPC-6721	
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 (CEO BC)	RDM FC
Lutron Electronics Co., Inc.	Visit www.lutron.com/advance for the latest control information and selection	
PDM Electrical Products	WPC-6721	
Starfield Controls	TR61 with DALI interface port	RT03 DALInet Router
The Watt Stopper, Inc.	LS-4 used with LCD-101 and LCD-103	



Failure Rate Info:

1. <0.01% per 1kHr @ <= Tcase 60°C

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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.	
2.1	01/24/2012	* Add Envir. Protection Rating	N.T.	
3.1	05/03/2012	*Remove Min .Output Power (W)	N.T.	
4.1	05/03/2012	* Add Approbations: UL,CSA	N.T.	
5.1	06/02/2012	*Update COA	N.T.	

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