

PHILIPS

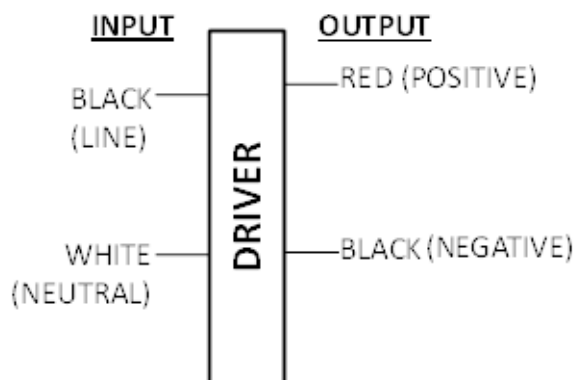
Product Overview

XR013C033V042RNO1

Brand Name	XITANIUM
Description	XITANIUM 13W 0.33A 42V LE+TE 120V
Input Voltage	120V
Input Freq.	50/60Hz
RoHS	Yes
Status	Preliminary

Input Voltage (Vac)	Output Power (W)	Output Voltage Range (V)	Output Current (A)	Efficiency@ Max Load and 70°C Case	Max Case Temp. (°C)	Input Current (Arms)	Max. Input Power (W)	Inrush Current (Apl/50%-µs)	THD @ Max Load (%)	Power Factor @ Max Load	Surge Protection (Ring wave, KV)	Weight (Lbs/kgs)	Envir. Protection Rating
120	13	25 - 42	0.33	80.0%	85°C	0.14	19	5.6 / 3.15	<30%	>0.90	>2.5	0.24 / 0.11	UL damp and dry

Wire Diagram



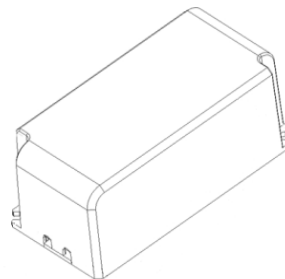
Product Data:

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

Lead Length
Standard lead length is 150mm (±10mm) on all wires outside the can.
All wires have tinned ends.

Dimming	Dimming Range (with specified dimmers)	Minimum Output Current (A)
LE and TE dimming	10% ~ 100%	0.03

Enclosure



	in.	mm
Case Length	2.78	70.5
Case Width	1.36	34.5
Case Height	1.08	27.5
Mounting Length	2.54	64.5
Mounting Width	1.14	28.9
Overall Length	2.78	70.5



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10275 WEST HIGGINS ROAD · ROSEMONT, IL 60018

Tel: 800-322-2086 · Fax: 888-423-1882 · www.philips.com/advance

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



Electrical Specifications

All the specifications are typical and at 25°C Tcase unless specified otherwise.

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Order code	XR013C033V042RNO1
Full product code	XR013C033V042RNO1M (Mid-pack – 48pcs/box)
Full product name	Xitanium 13W 0.33A 42V LE+TE 120V
Line Voltage	120Vac rms
Line Current	0.14A
Line Frequency	50/60Hz
Min. Mains voltage operational	108 V [min]
Max. Mains voltage operational	132V [max]
Inrush Current	Per NEMA 410
Output voltage range	25V to 42Vdc
Maximum open circuit voltage	60V
Output Current Ripple (ripple = peak / average)	30% max @ max lout
Output current tolerance	<10%
Protections	Short Circuit and Open Circuit Protection for LED + and LED-
Ambient Temp Range	0C to +50C (Just for reference only. Use Tcase temperature as the guiding factor)
Max Case Temperature (Tcase)	85°C
Interfaces	Leading Edge dimming
LE + TE Dimming Specifications	Refer to information provided below
Environmental Protection Rating	UL damp and dry
Agency Approbations	UL8750, UL1310
Electromagnetic Compliance	FCC Title 47 Part 15 Class B
Isolation	Refer to table
Audible noise	<24dB

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RoHS	Yes
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Approved Dimmer List

Manufacturer	Manufacturer Part Number	Additional Considerations
Lutron	FALV-600-XX	Dimmers can be loaded up to 80% of their max power rating The minimum number of drivers per dimmer is 1
	S-600X	
	SLV-600X	
	S2-LX	
	DVSCCL-153P	
	DV600PR	
Leviton	IPI06-XXX	
	6602-X	
	6681-X	
	6683-X	
	6684-X	
	700-X	
	705-X	
	6633	
	6674	
	IPL06	
Cooper	9530XXX	
Lightolier	MP600X	

Notes:

1. The start-up time on all drivers is <1s
2. Min dim level is dimmer dependent
3. For dimmers not on this list, please contact the dimmer manufacturer for further instructions

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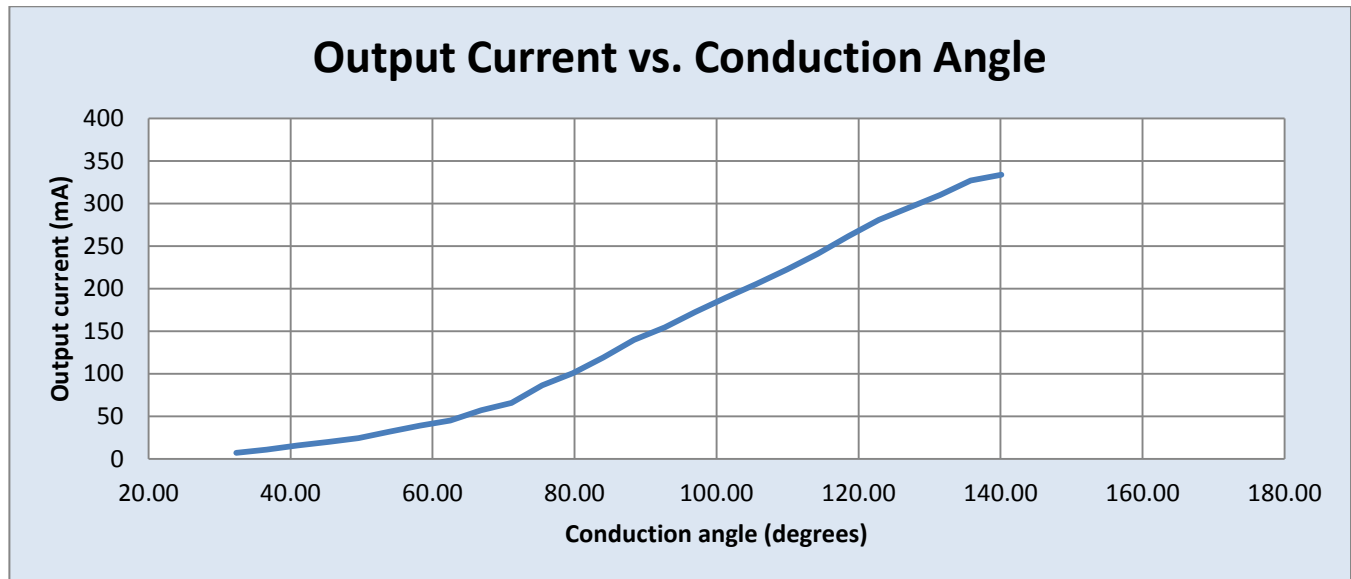
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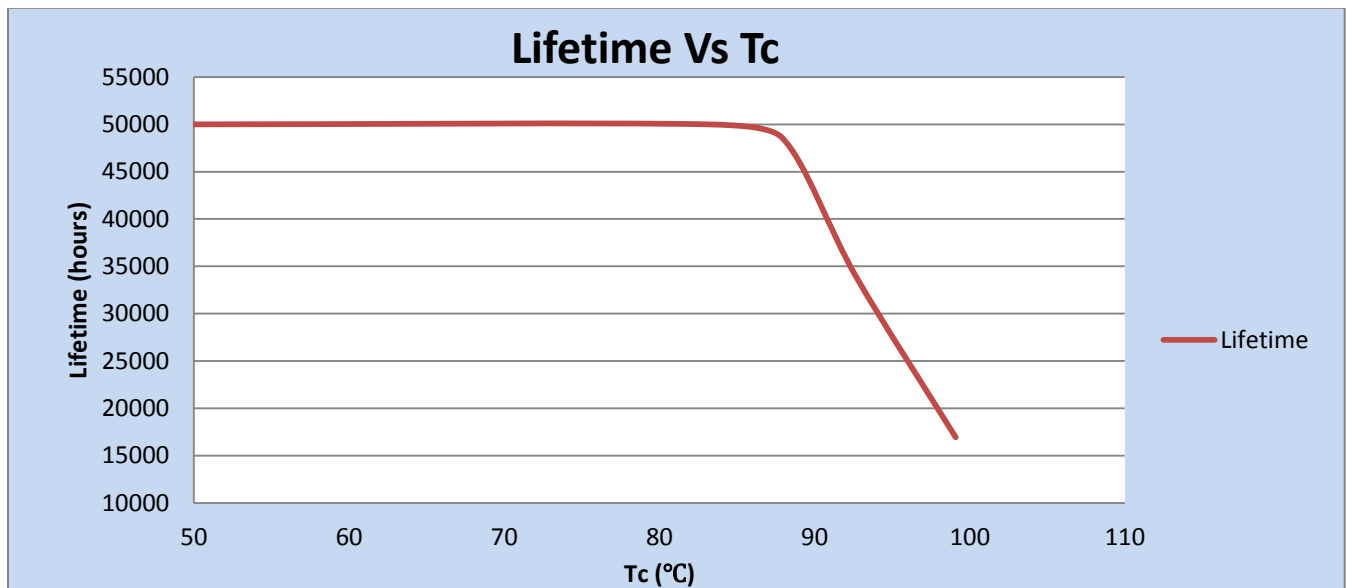
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Dimming Curve



Lifetime vs. Tcase of Driver:



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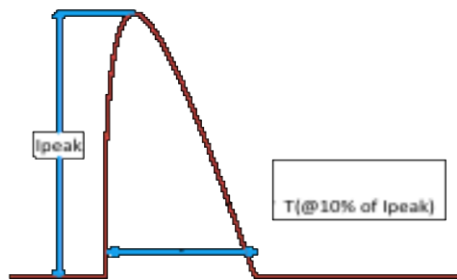
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Inrush Current Info:



Vin	Ipeak	T (@ 10% of Ipeak)
120 Vrms	5.7A	3.15us

Inrush current is measured at peak of the corresponding line voltage, source impedance per NEMA 410.

Lightning Surge Info:

ANSI Surge Type	Differential Mode (L-N)
100 kHz Ring Wave (w/t 30Ω)	>2.5kV

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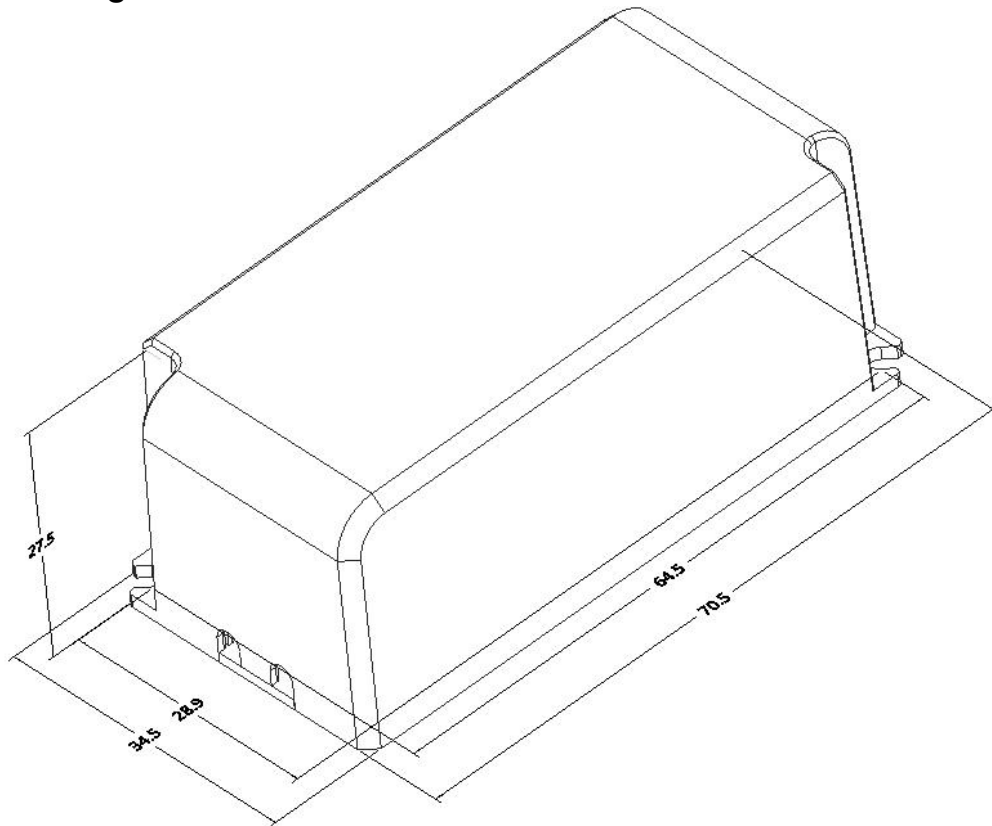
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Mechanical Specifications

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Mechanical Drawing:



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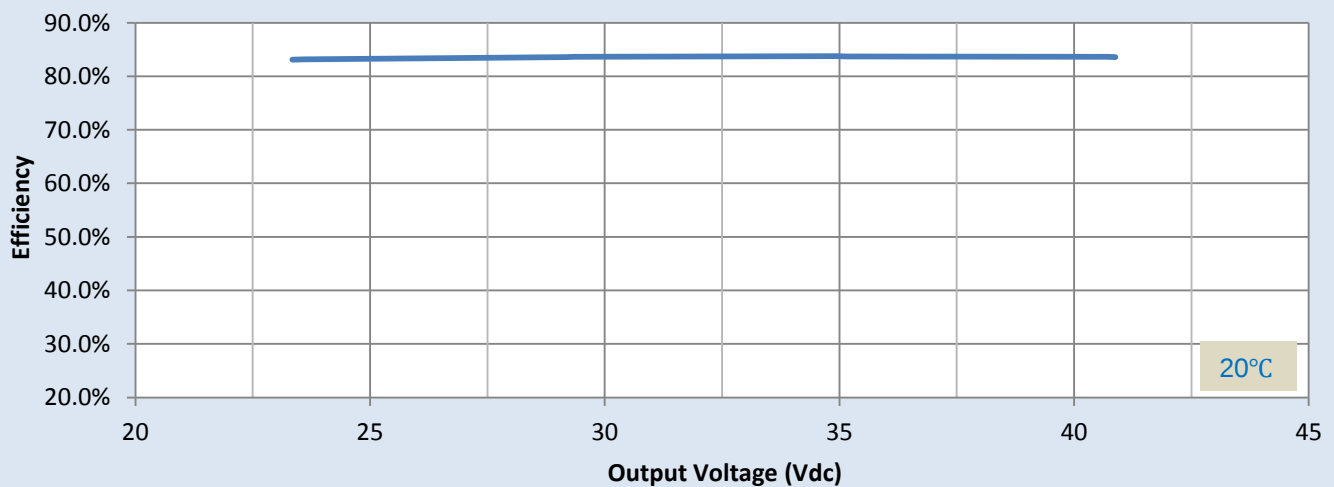
Performance Characteristics

Based on measurements on a typical sample. The accuracy of the measurements is within the tolerance of the measurement instruments. The graphs are meant to be a guideline and not a specification.

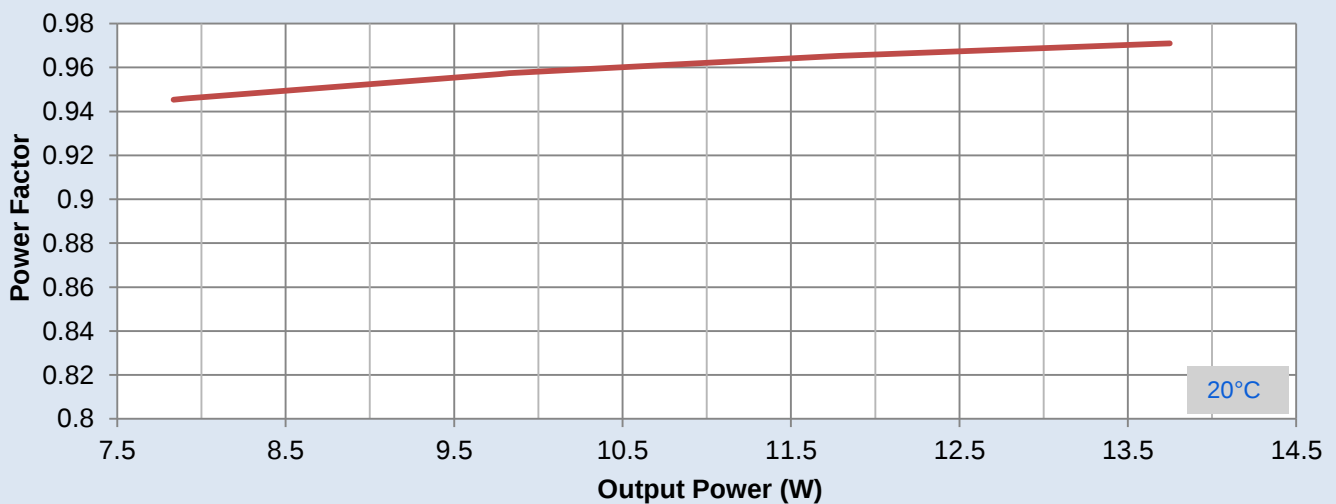
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Performance Characteristics

Efficiency vs. Output Voltage



Power Factor vs. Output Power



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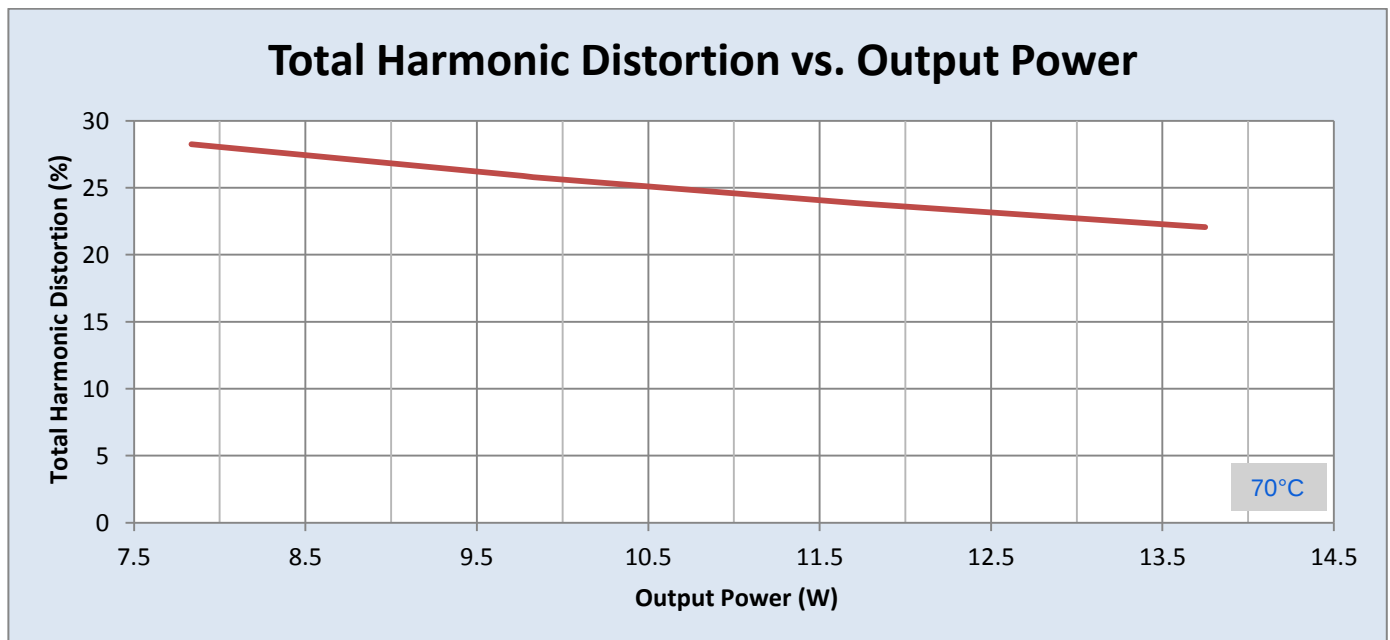
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Application Notes:

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Isolation:

Isolation	Input	Output	Enclosure
Input	Not applicable	2xU+1KV	2xU+1KV
Output	2xU+1KV	Not applicable	500V
Enclosure	2xU+1KV	500V	Not applicable

UL Conditions of Acceptability:

Please contact your Philips representative for a copy of the latest UL Conditions Of Acceptability (COA).

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