

Philips Advance Xitanium LED Driver

PHILIPS ADVANCE XITANIUM LED DRIVER SPEC SHEET



XITANIUM 40W 0.70A 0-10V INT-J
XI040C070V056CNJ1

Features

- 3 drive current options available – 700mA, 1050mA, 1200mA, with UL Class 2 output
- 0-10V dimming
- Compact housing

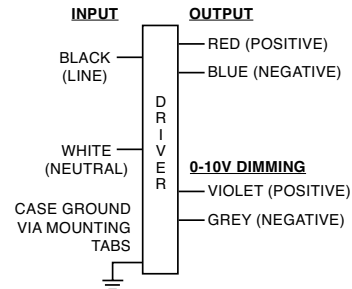
Benefits

- Flexibility of design via multiple drive currents and low voltage
- Helps to maximize energy savings and allows application specific light levels
- Enables design of low profile and compact fixtures

Dimensions

	in.	mm
Case Length	5.58	139.50
Case Width	1.83	45.75
Case Height	1.13	28.32
Mounting Length	5.77	144.25
Mounting Width	1.10	27.50
Overall Length	5.93	148.25

Wire Diagram



Dimming	Dimming Range	Minimum Output Current (A)	Other Comments
0-10V Analog Class 2 Wiring	10% ~ 100%	0.070	Dimming source current: 150 μ A (\pm 3%)

Product Data

Input and output use lead-wires.

Lead-wires are 18AWG 105C/600V solid copper per UL1452.

Lead Length outside enclosure: 270 mm (\pm 30mm) on all wires.

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 (Apk/50%- μ s)	THD @ Max Load (%)	Power Factor @ Max Load	Surge Protection Common/ Diff (KV)	Weight (Lbs/ kgs)	Envir. Protection Rating
120	40	12 - 54	0.70	86	80°C	0.36	47	25 / 100	<8%	>0.95	4/4	1.0/ 0.45	UL damp and dry
277				89		0.16		65 / 100	<12%				



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SPEC SHEET

Electrical Specifications

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

Ordering Information	
Order code	XI040C070V056CNJ1
Full product code	XI040C070V056CNJ1M (Mid-Pack, 12pcs/Box)
Full product name	XITANIUM 40W 0.70A 0-10V INT-J
Input Information	
Line Voltage	120-277Vac rms
Line Current	0.36A @ 120V, 0.16A @ 277V
Line Frequency	50/60Hz
Min. Mains voltage operational	108 V [min]
Max. Mains voltage operational	305V [max]
THD (total)	Refer to graph
Power Factor (PF)	Refer to graph
Efficiency	Refer to graph
Inrush Current	Per NEMA 410
Input Over-voltage	Can survive input over-voltage stress of 320VAC for 48 hours and 350VAC for 2 hours
Lightning Surge Protection	Per IEEE C62.41.2 2002 (4KV, 1.2/50 μ s.8/20 μ s Combination Wave with 2 Ohms source impedance, L-N, L-PE, N-PE)
Output Information	
Output voltage range	12V to 54Vdc
Maximum open circuit voltage	56 (\pm 5%)
Output Current Ripple (ripple = peak to average / average)	10% max @ max Iout and max Vout Low frequency (\leq 120 Hz) content < 5%
Protections	Short Circuit and Open Circuit Protection for LED + and LED-
Ambient Temp Range	-40°C to +55°C
Max Case Temperature (Tcase)	80°C
Encapsulation	Yes, Fully potted
Features	
Interfaces	0-10V Dimming
0-10V Dimming Specifications	150 μ A \pm 3% source current from driver. See dim curve for detail.
Environment & Approbation	
Environmental Protection Rating	UL damp and dry
Life @ Tcase 70C	refer to graph below
Life @ Tcase 80C	refer to graph below
Agency Approbations	UL8750, ULI310, UL935, CSA-C22.2 No. 250.13-12, CSA C22.2 No. 223
Electromagnetic Compliance	FCC Title 47 Part 15 Class A
Isolation	Refer to table

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0-10V Dimming Curve:

Dimming source current from the driver: 150µA (±3%) (@ 0<Vdim<8V)

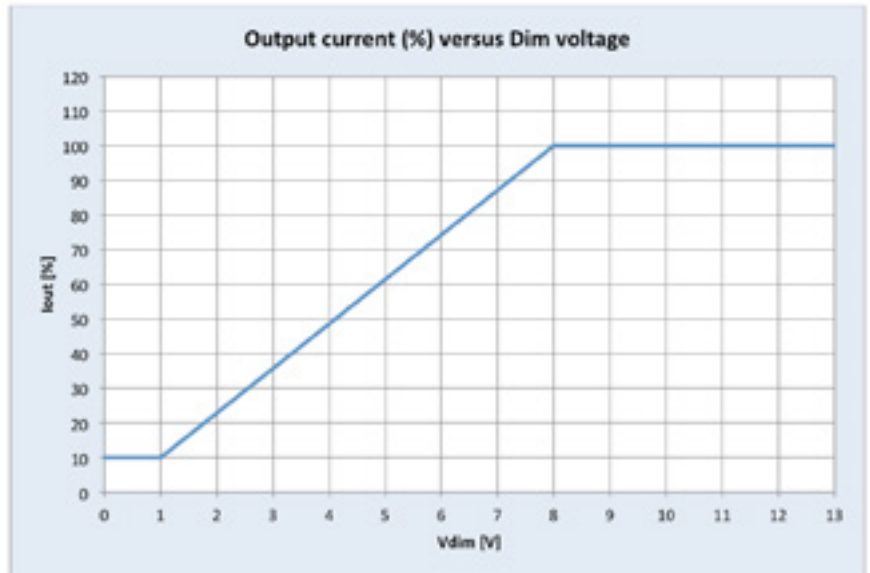
LED Current Tolerance at 700mA ≤ 5% over temperature and component variations and ≤ 10% at any dim level.

Minimum Dim Level: 10% of Iout (minimum 70mA)

Maximum output voltage on the dimming wires: 13V

Approved Dimmer List

Manufacturer	Manufacturer Part Number
Lutron	Visit www.lutron.com/advance for a list of dimmers (Mark VII) that will work with this driver
Leviton	IllumaTech IP7 series
Philips	Sunrise - SRI200ZTUNV

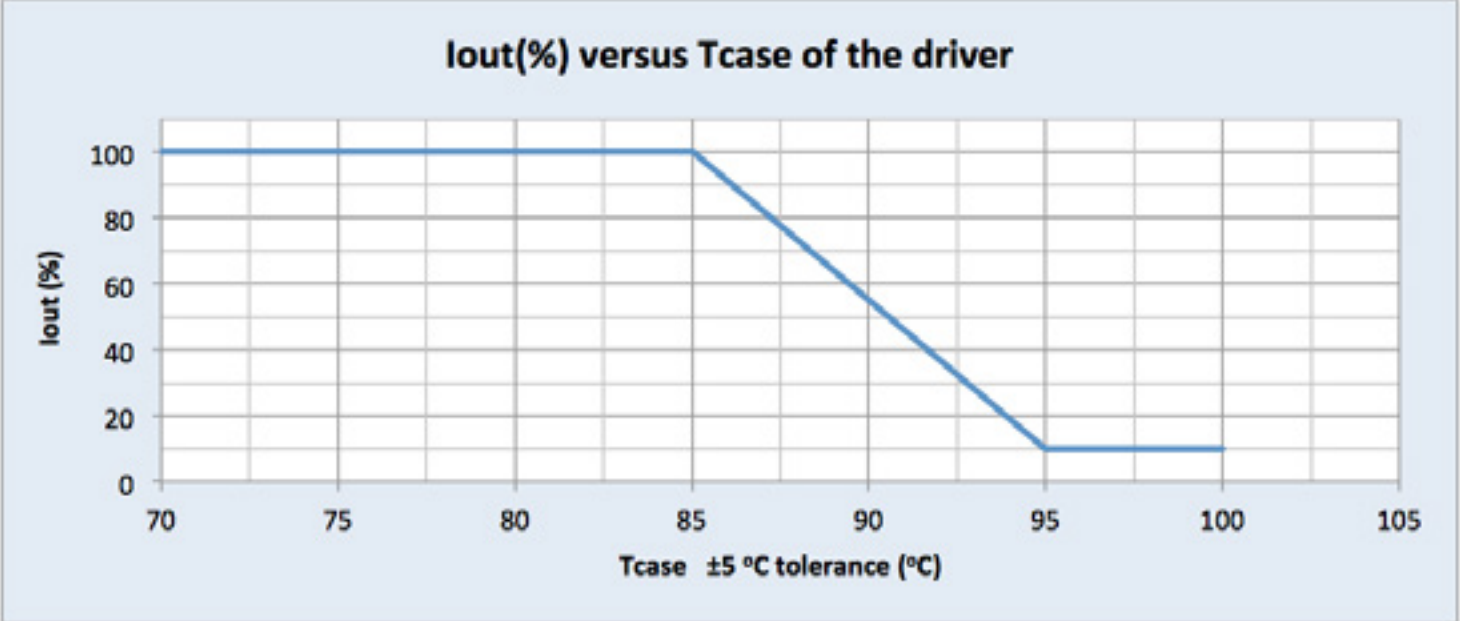


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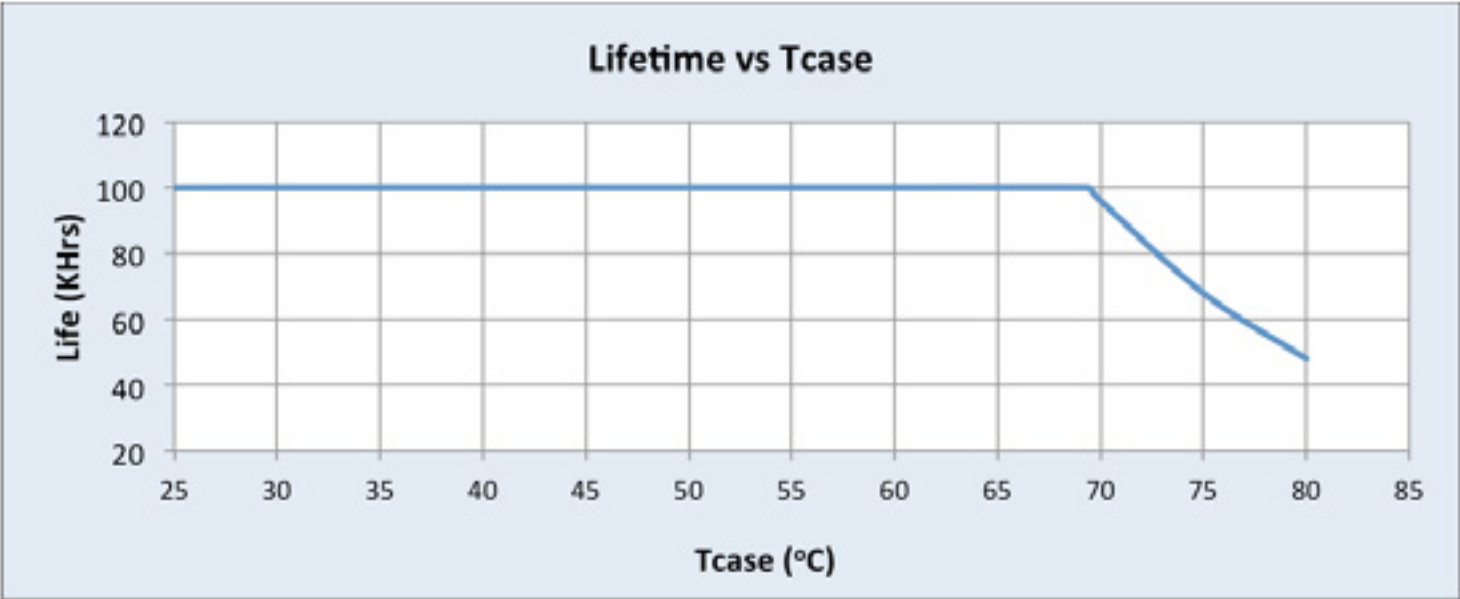
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Iout vs. Tcase of Driver:



Lifetime vs. Tcase of Driver:



Failure Rate based upon field call rate data:

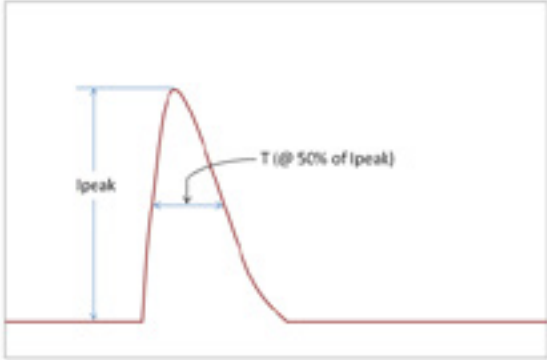
- <0.01% per 1kHr @ ≤ Tcase 70°C

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Inrush Current Info:



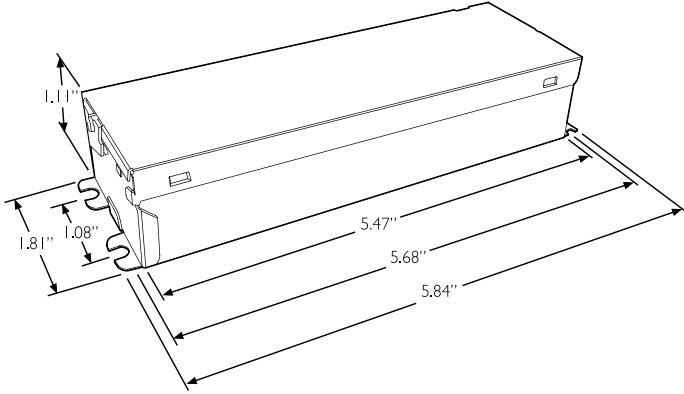
Vin	Ipeak	T (@ 50% of Ipeak)
120 Vrms	25 A	100 μ s
277 Vrms	65 A	100 μ s

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

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Mechanical Specifications

Mechanical Drawing:

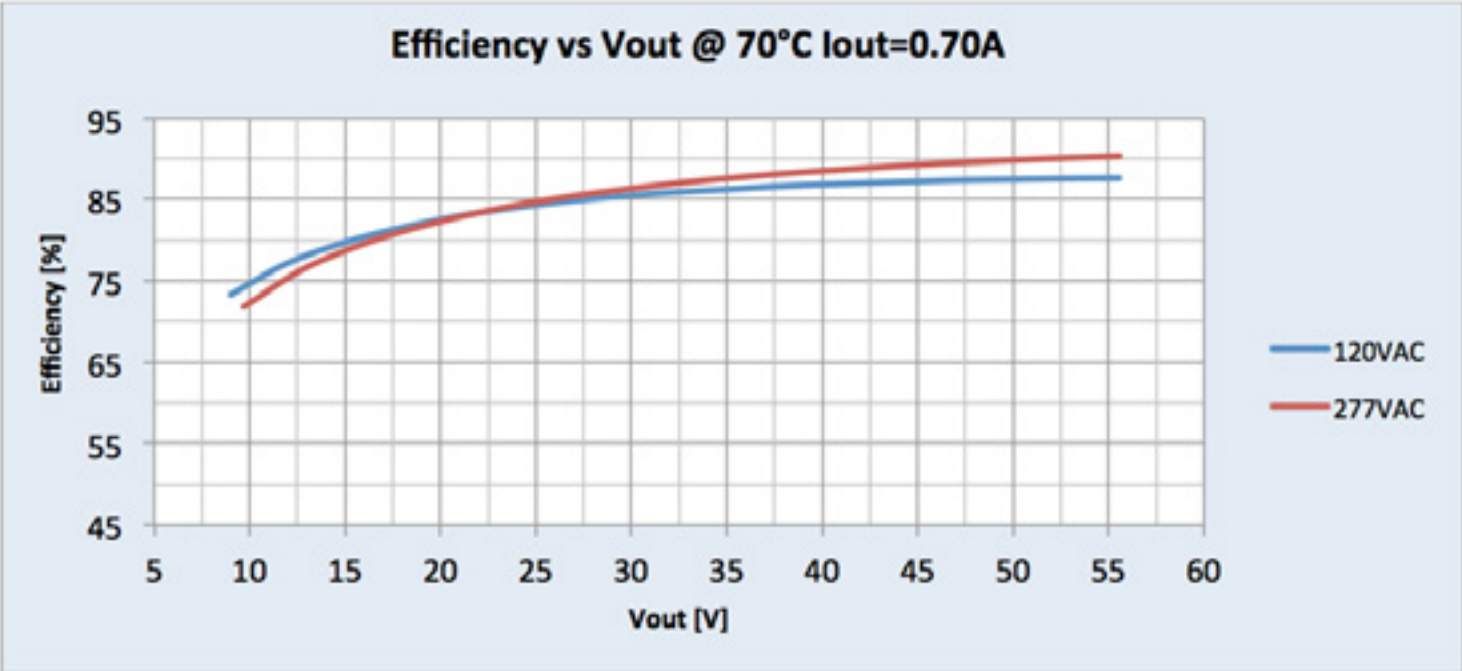
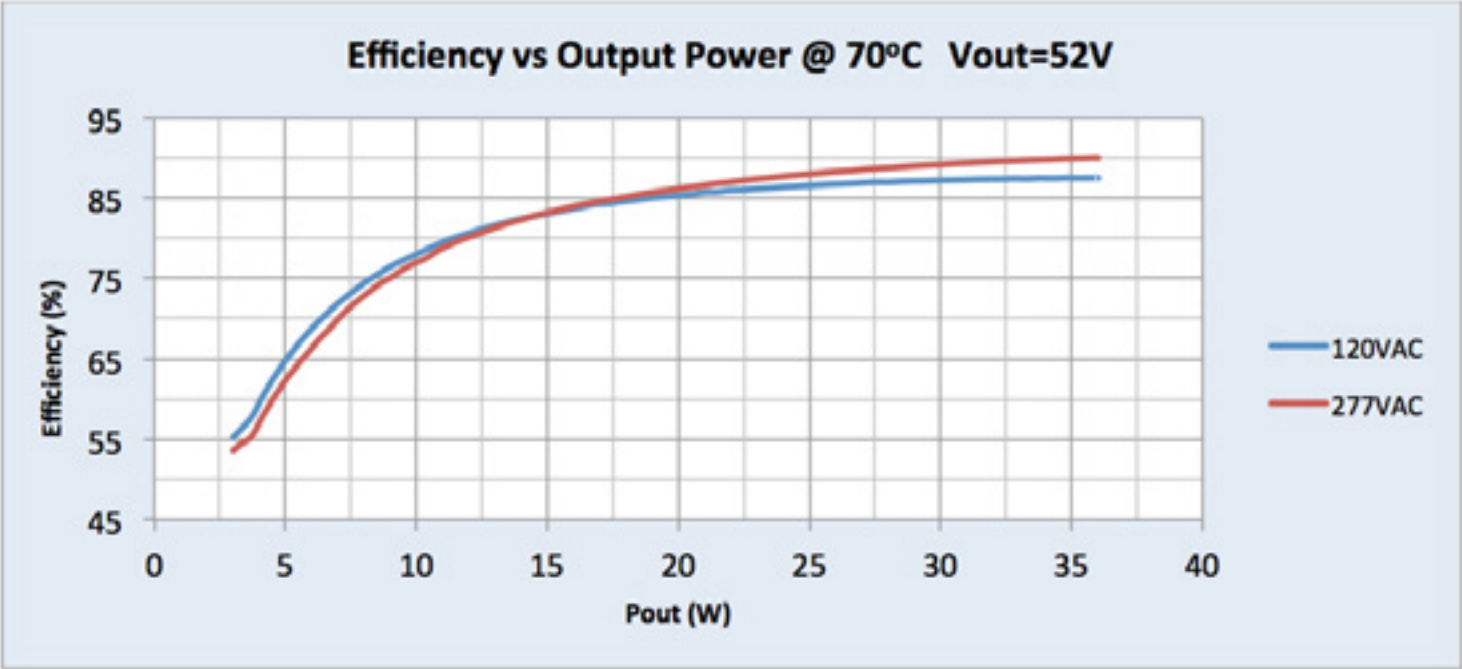


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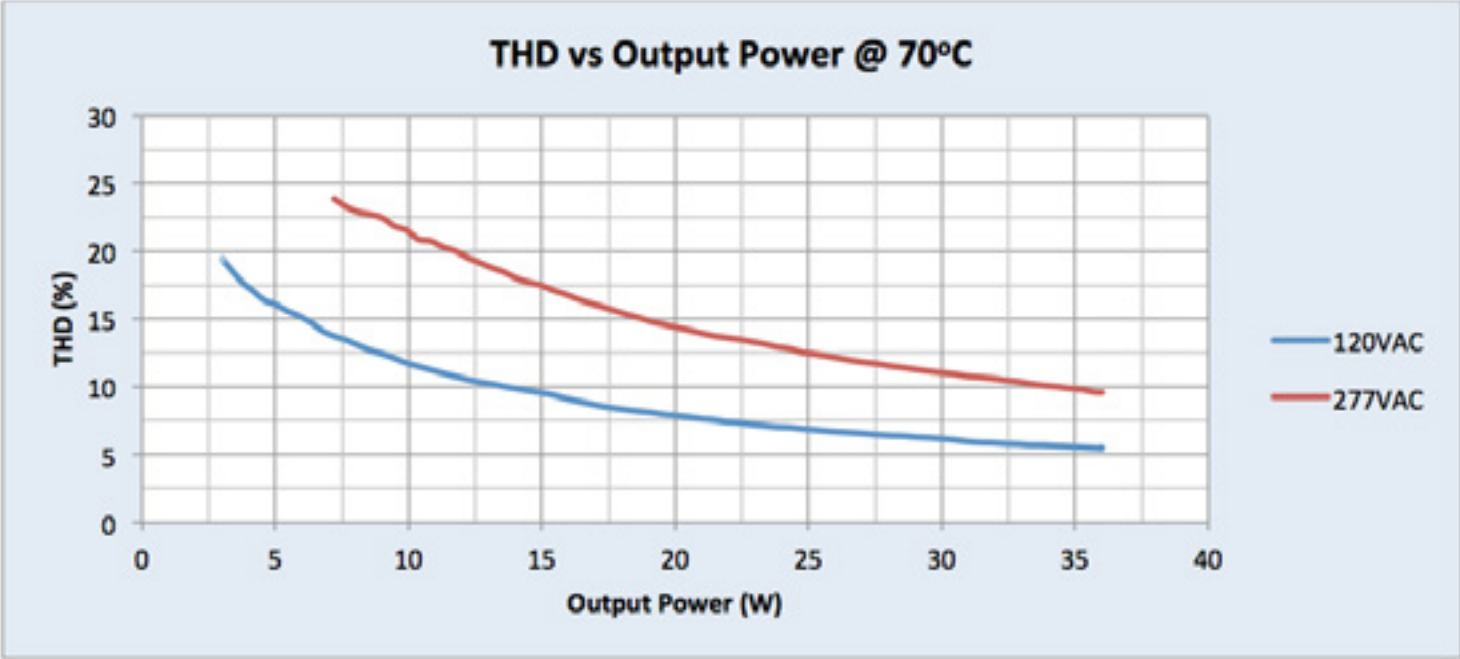
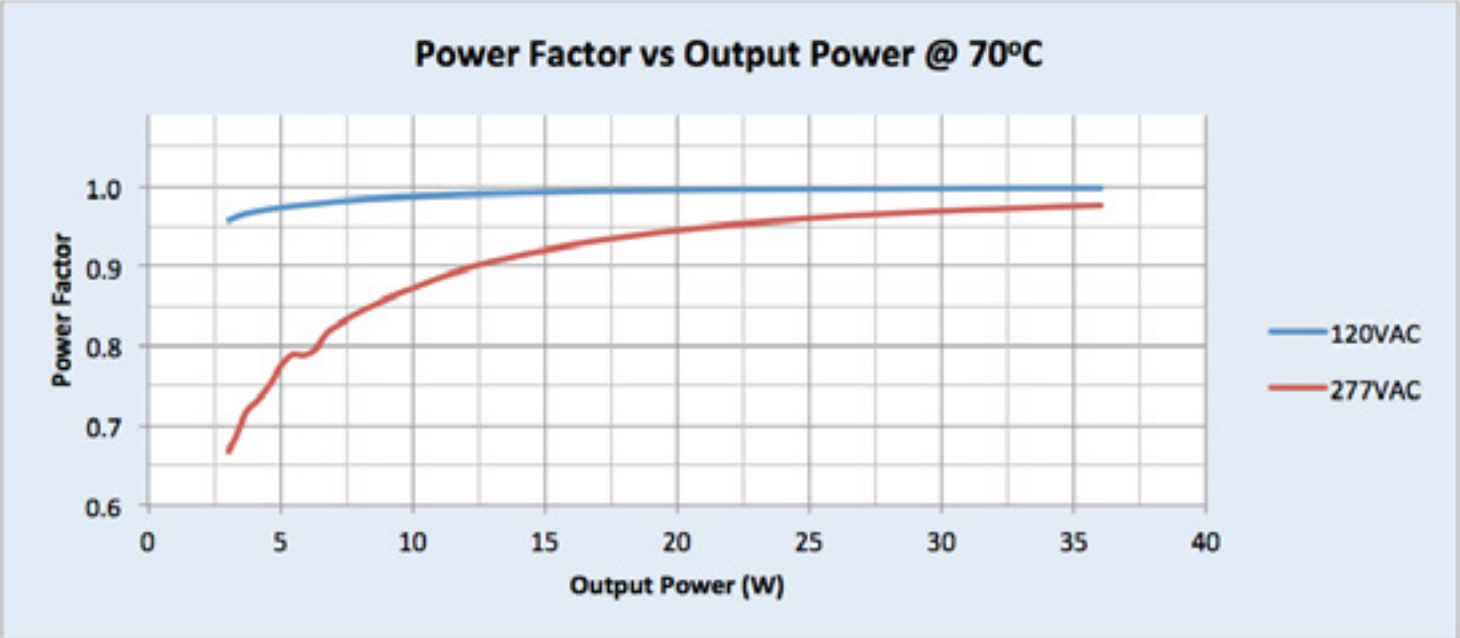
Performance Characteristics

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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Application Notes

Isolation:

Isolation	Input	Output	0-10V (Class 2)	Enclosure
Input	NA	2xU+1KV	2.5KVac	2xU+1KV
Output	2xU+1KV	NA	NA	500V
0-10V (Class 2)	2.5KVac	NA	NA	500V
Enclosure	2xU+1KV	500V	500V	NA

UL Conditions of Acceptability:

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



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