

Philips Advance Xtanium LED Driver

XITANIUM 75W 1.05A 0-10V HCN-F
XH075C105V070CNF1

Features

- High drive current
- Isolated 0-10V dimming
- New housing with increased thermal capability

Benefits

- Enables higher lumen per dollar fixture designs
- Helps to maximize energy savings and allows application specific light levels
- Allows luminaire designs for use in higher ambient environments

Dimming	Dimming Range	Minimum Output Current (A)	Other Comments
0-10V Analog Class 1 and 2 Wiring	10% ~ 100%	0.105	Dimming source current: 150 μ A

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
347	75	24 - 71	1.05	88	80°C	0.25	87	52 / 110	<10%	>0.95	4/4	2.1/0.95	UL damp and dry
480				89		0.19		73 / 120	<15%				

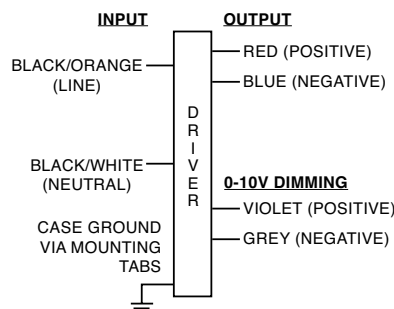
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Dimensions

	in.	mm
Case Length	8.3	211.0
Case Width	2.3	58.6
Case Height	1.48	37.6
Mounting Length	8.84	224.6
Overall Length	9.47	240.5

Wire Diagram



Product Data

Input and output use lead-wires.
Lead-wires are 18AWG 105C/600V solid copper per UL1452.
Lead Length outside enclosure: 270mm ($\pm$ 30mm) on Input & Output wires, 220mm ($\pm$ 30mm) on dimming wires.



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Electrical Specifications

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

Ordering Information	
Order code	XH075C105V070CNF1
Full product code	XH075C105V070CNF1M (Mid-Pack, 10pcs/Box)
Full product name	XITANIUM 75W 1.05A 0-10V HCN-F
Input Information	
Line Voltage	347-480Vac_rms
Line Current	0.25A @ 347V, 0.19A @ 480V
Line Frequency	50/60Hz
Min. Mains voltage operational	312 V [min]
Max. Mains voltage operational	528V [max]
THD (total)	Refer to graph
Power Factor (PF)	Refer to graph
Inrush Current	Per NEMA 410
Lightning Surge Protection	Refer to table below
Output Information	
Output voltage range	24V to 71Vdc
Maximum open circuit voltage	82V
Output Current Ripple (ripple = peak to average / average)	15% max @ max lout Low frequency (≤ 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
Features	
Interfaces	0-10V Dimming
AOC (Adjustable Output Current)	N/A
MTP (Module Temperature Protection)	N/A
0-10V Dimming Specifications	150 μ A source current from driver, See dim curve for detail.
Environment & Approbation	
Environmental Protection Rating	UL damp and dry
Agency Approbations	UL879, UL1012, UL935, (cRUs/CSA)
Electromagnetic Compliance	FCC Title 47 Part 15 Class A
Isolation	Refer to table
Audible noise	<24dB Class A

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0-10V Dimming Curve:

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

LED Current Tolerance at 1050mA ≤ 5% over temperature and component variations and ≤ 10% at any dim level.

Minimum Dim Level: 10% of Iout (minimum 105mA)

Guaranteed Shutdown driver with Vdim>14.5V

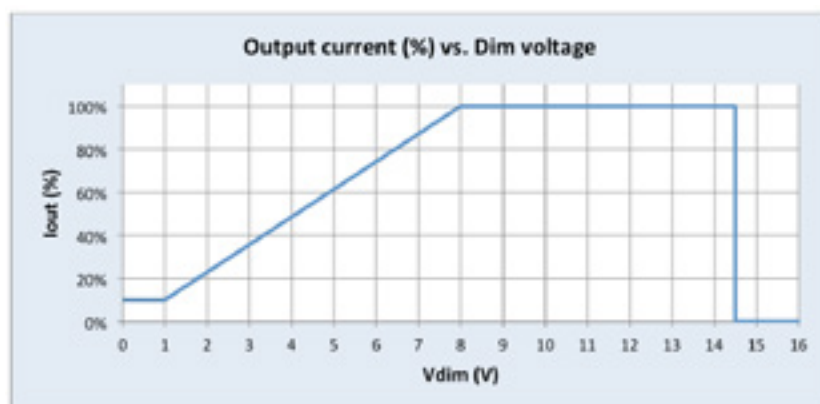
Typ. sink current: 3mA (4mA Max) at 16V dim

Guaranteed no shutdown driver with Vdim<12V

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

For compatibility with other dimmers please contact the dimmer manufacturer.



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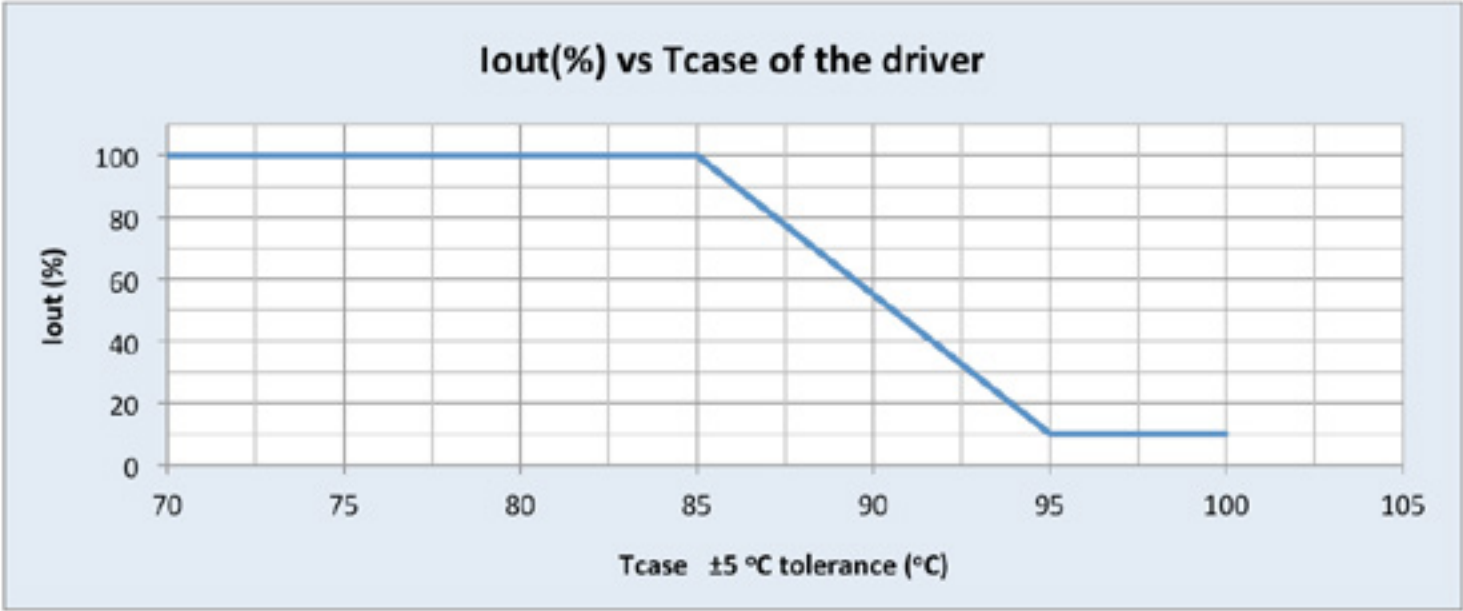
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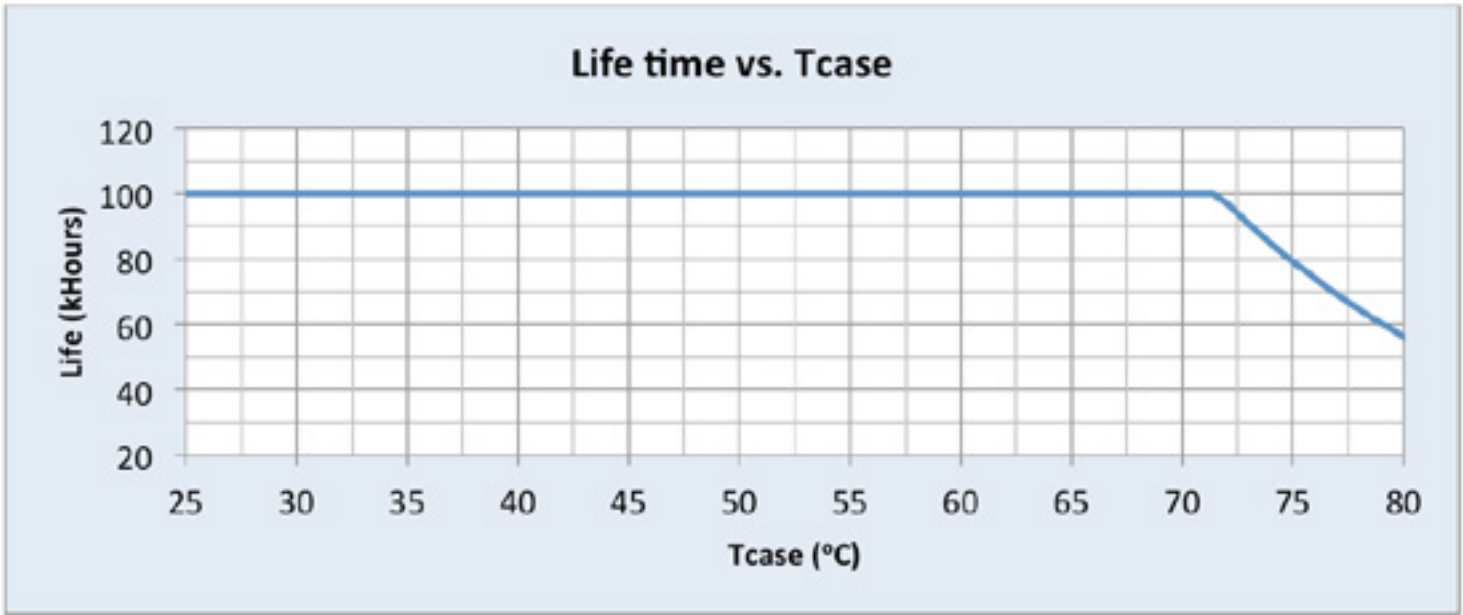
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Iout vs. Tcase of Driver:



Lifetime vs. Tcase of Driver:



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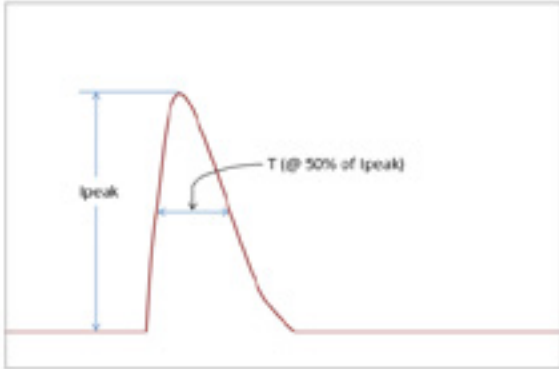
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Inrush Current Info:



Vin	Ipeak	T (@ 50% of Ipeak)
120 Vrms	52 A	110 μ s
277 Vrms	73 A	120 μ s

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)	Common Mode (L-G, N-G, L&N-G)
100 kHz Ring Wave (w/t 30 Ω)	6kV	6kV
1.2/50 μ s - 8/20 μ s Combination Wave (w/t 2 Ω)	4kV	4kV

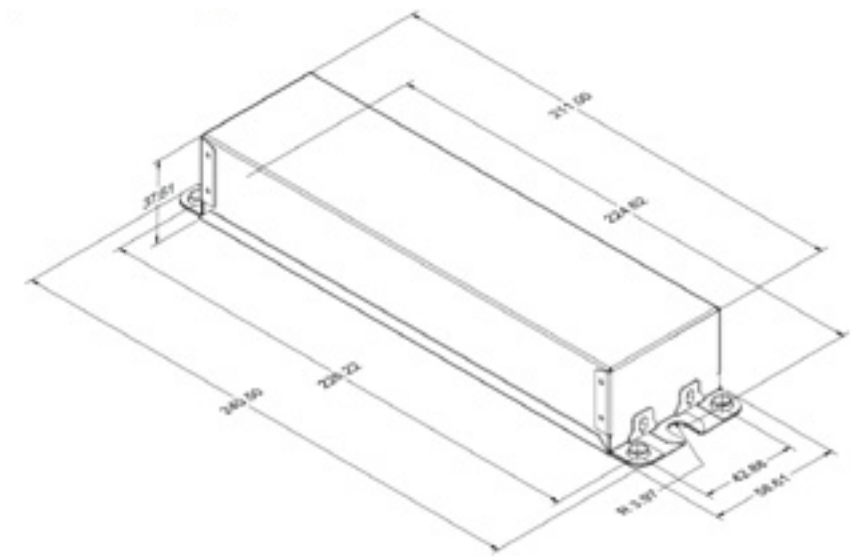
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Mechanical Specifications

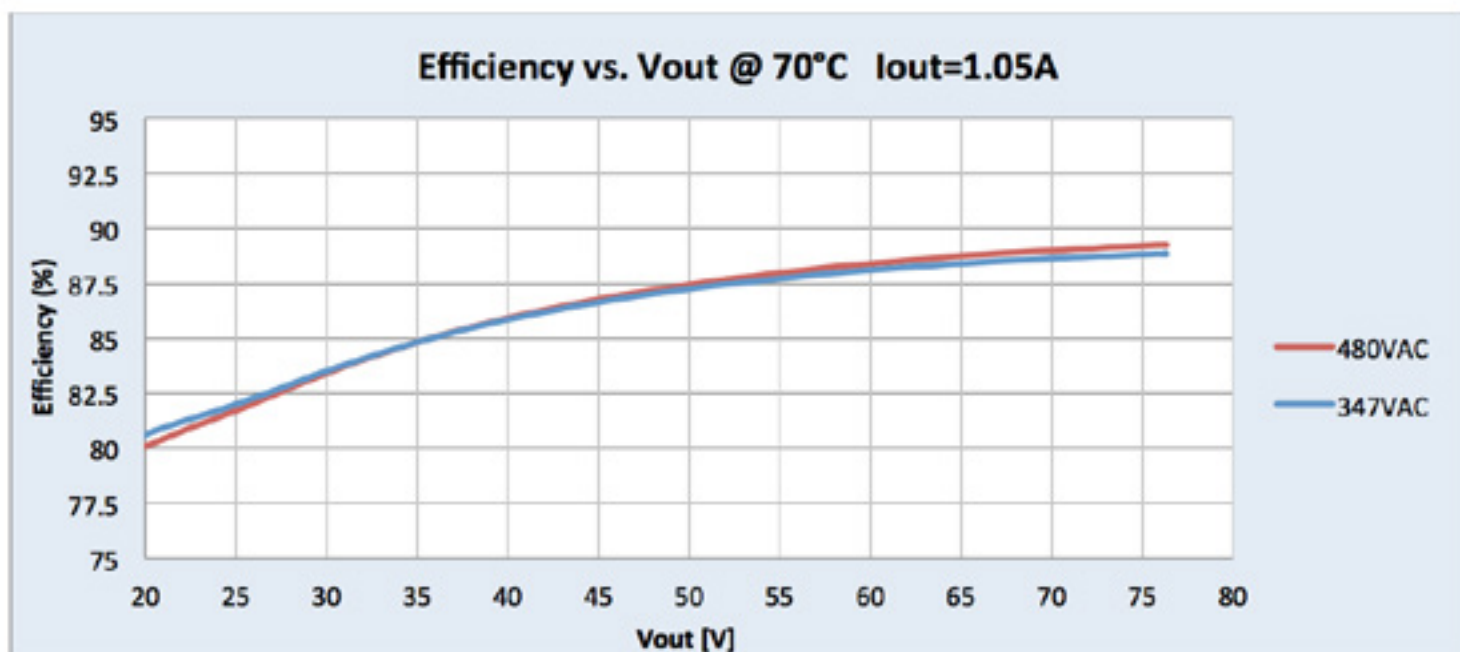
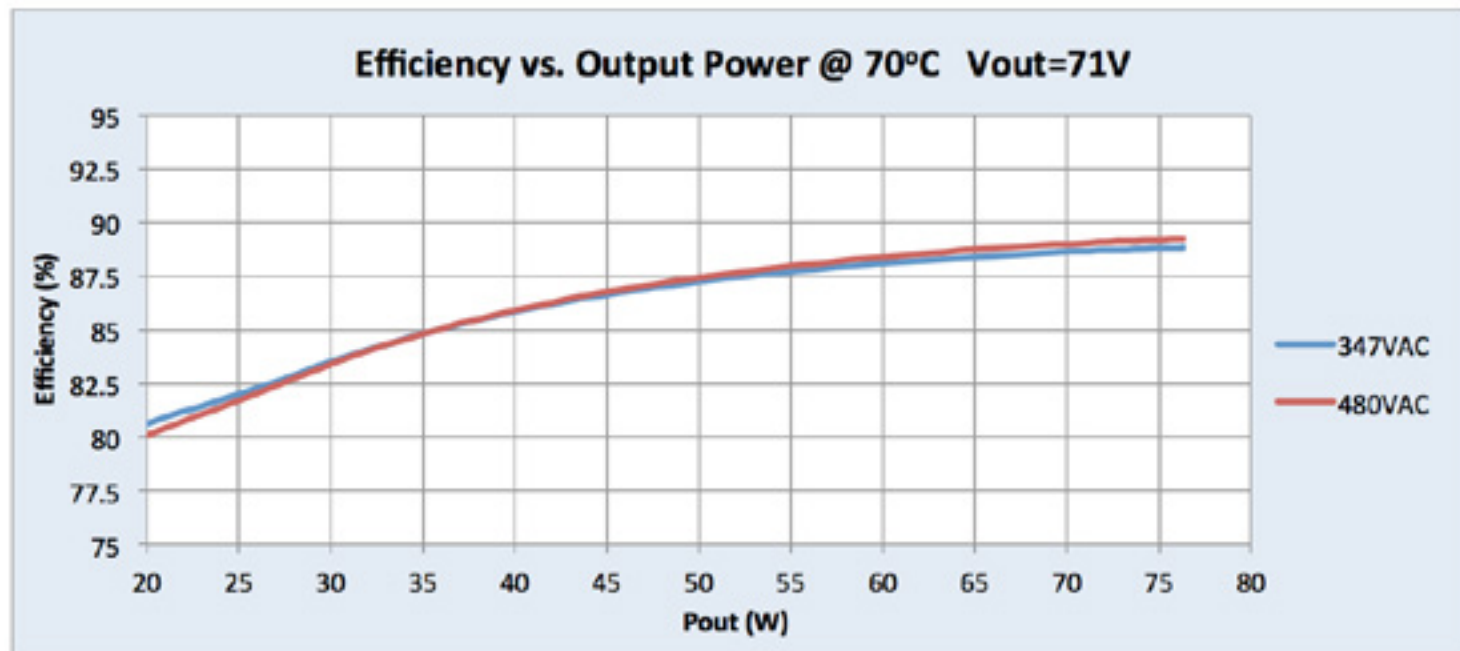
Mechanical Drawing:



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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.



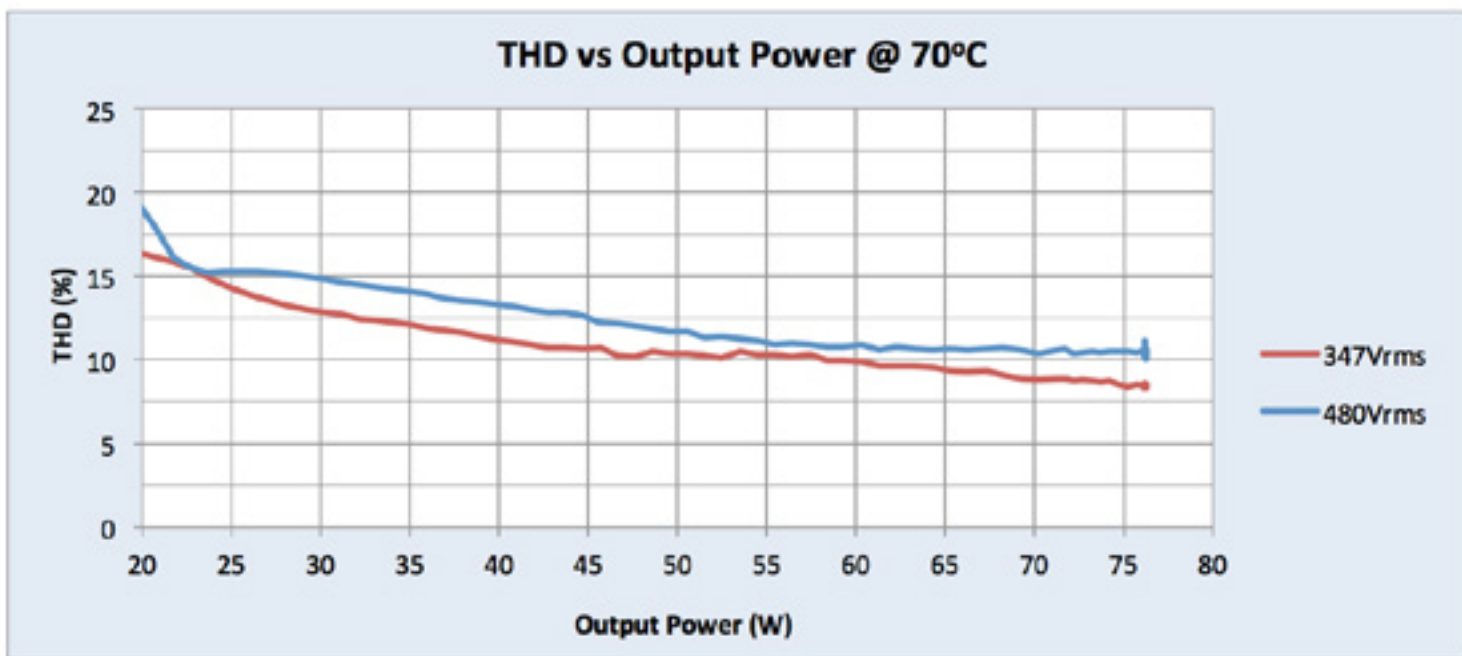
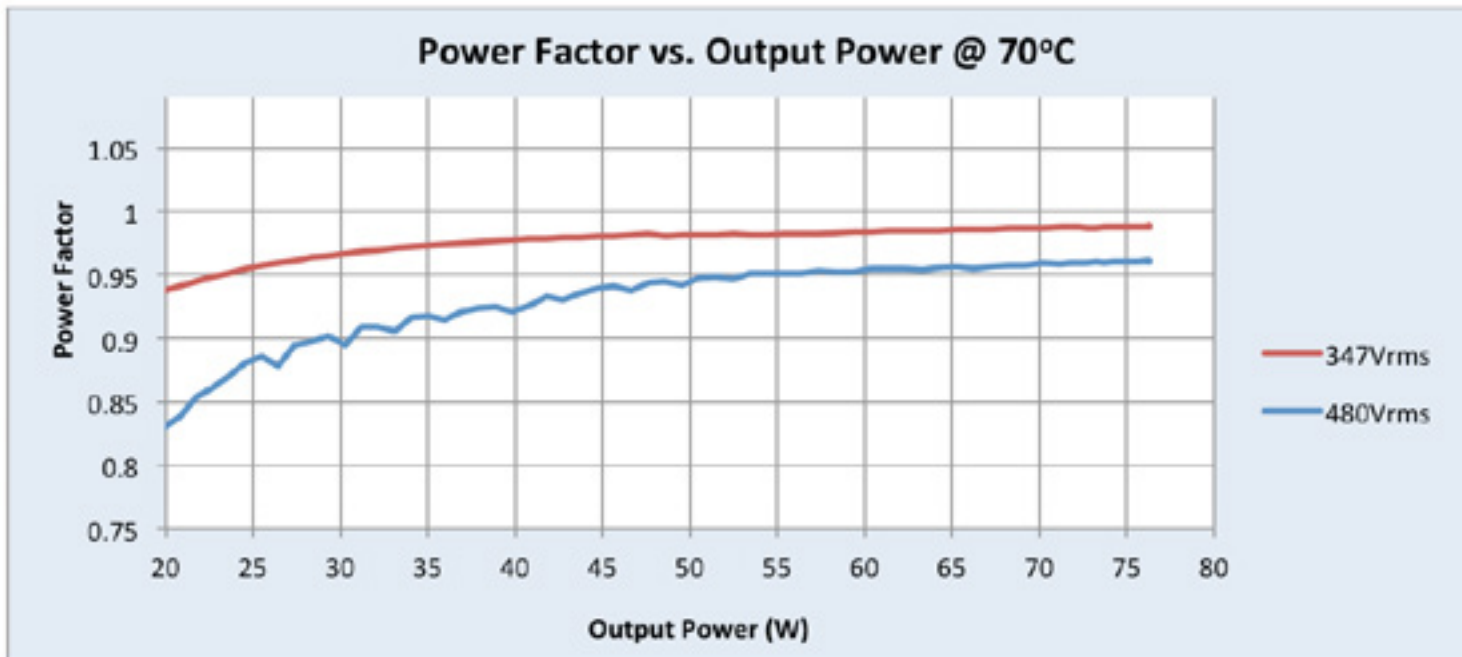
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Application Notes

Isolation:

Isolation	Input	Output	0-10V (Class I & 2)	Enclosure
Input	Not applicable	2xU+1KV	2.5KVac	2xU+1KV
Output	2xU+1KV	Not applicable	2.5KVac	2xU+1KV
0-10V (Class I & 2)	2.5KVac	2.5KVac	Not applicable	2xU+1KV
Enclosure	2xU+1KV	2xU+1KV	2xU+1KV	Not applicable

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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