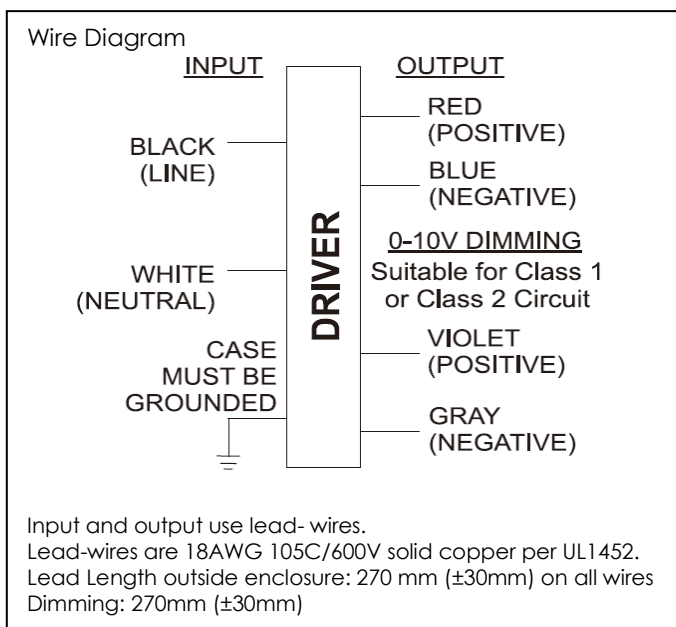


Product Overview

XI100C105V096CNF1M	
Brand Name	XITANIUM
Description	XITANIUM 100W 1.05A 0-10V Dimming
Input Voltage	120~277V
Input Frequency	50/60Hz
RoHS	Yes
Approbations	UL, CSA
Status	Released

Input Voltage (Vac)	Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency @ Max Load	Max Case Temp. (°C)	Input Current (Arms)	Max. Input Power (W)	Inrush Current (A _{pk} /50%-μs)	THD @ Max Load (%)	Power Factor @ Max Load	Surge Protection Common/Diff (KV)	Weight (Lbs/Kg)	Envir. Protection Rating
120	100	36 - 96	1.05	91	80	0.95	112	63.2/137	<10	>0.95	3/3	2.1/0.95	UL dry & Damp
277				93		0.42		170/131.5	<10				



Dimming	Dimming Range	Minimum Output Current (A)	Other Comments
0-10V Analog	10% ~ 100%	0.105	Dimming source current: 150 μA (±3%)

Enclosure



	In. (mm)
Case Length	8.38(211.1)
Case Width	2.35(59.1)
Case Height	1.56(39.7)
Mounting Length	9.0(226.2)
Mounting Width	1.7(42.9)
Overall Length	9.54(240.5)



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Mechanical Specifications

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12NC	929000725313
Order code	XI100C105V096CNF1M
Full product code	XI100C105V096CNF1M
Full product name	XITANIUM 100W 1.05A 0-10V Dimming
Line Voltage	120-277Vac rms
Line Current	0.95A @ 120Vac, 0.42A @ 277Vac, 0.45A @ 250Vdc
Line Frequency	50/60Hz
Mains voltage operational safety (AC)	99-305V
Mains voltage operational performance (AC)	108-305V
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 (3KV, 1.2/50 μ s/20 μ s Combination Wave with 2 Ohms source impedance, L-N, L-PE, N-PE)
Output voltage range	36Vdc to 96Vdc
Maximum open circuit voltage	140Vdc
Output Current Ripple (ripple = peak to peak / average)	30% max @ max Iout and max Vout Low frequency (≤ 120 Hz) content < 5%
Protections	Short Circuit and Open Circuit Protection for LED + and LED-
Operating Ambient Temp. Range	-40°C to +55°C
Max Case Temperature (Tcase)	80°C
Encapsulation	Yes, Fully potted
Interfaces	0-10V Dimming
0-10V Dimming Specifications	150 μ A \pm 3% source current from driver. See dim curve for detail.
Environmental Protection Rating	UL dry and damp
Life @ Tcase 70°C	refer to graph below
Life @ Tcase 80°C	refer to graph below
Agency Approbations	UL8750, CSA250.13
Electromagnetic Compliance	FCC Title 47 Part 15 Class A
Isolation	Refer to table

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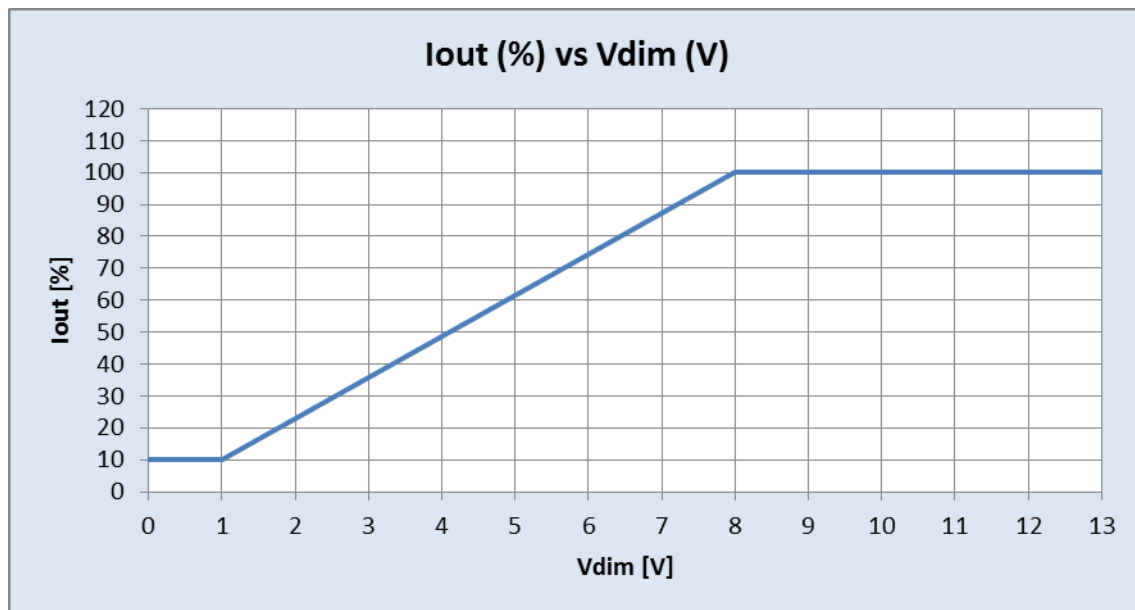
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0-10V Dimming Curve:

Dimming source current from the driver: 150 μ A (\pm 3%) (@ 0<Vdim<8V)

LED Current Tolerance at 1050mA \leq 5% over temperature and component variations and \leq 5% of Imax (Imax=1050mA) at any dim level.

Minimum Dim Level (nominal): 105 mA



Approved Dimmer List

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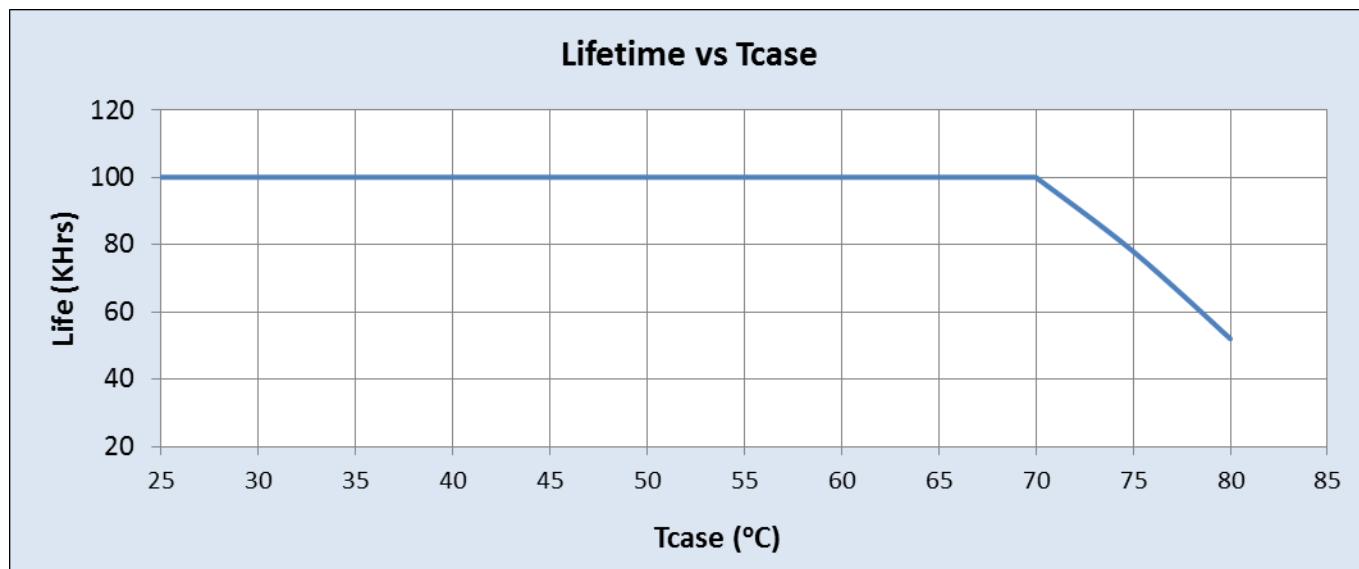
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Lifetime vs. Tcase of Driver



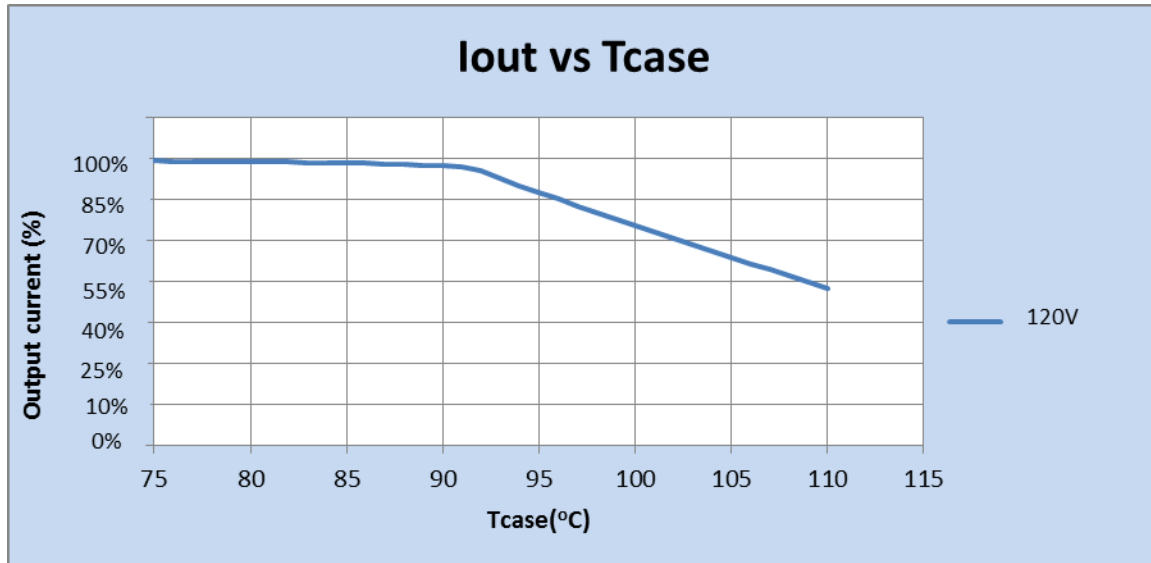
Iout vs Tcase of Driver

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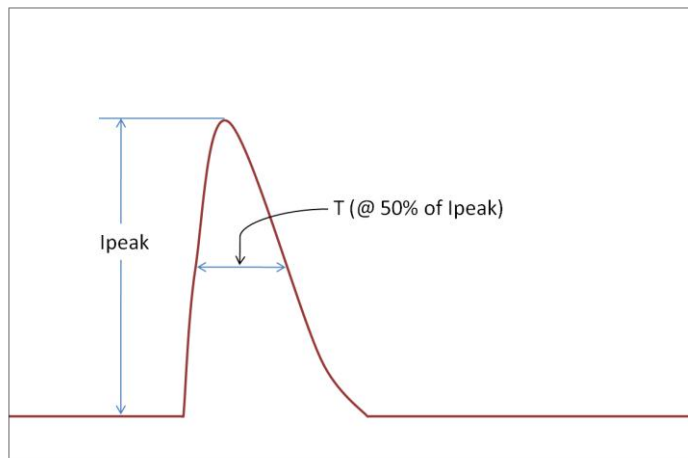
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Inrush Current Info:



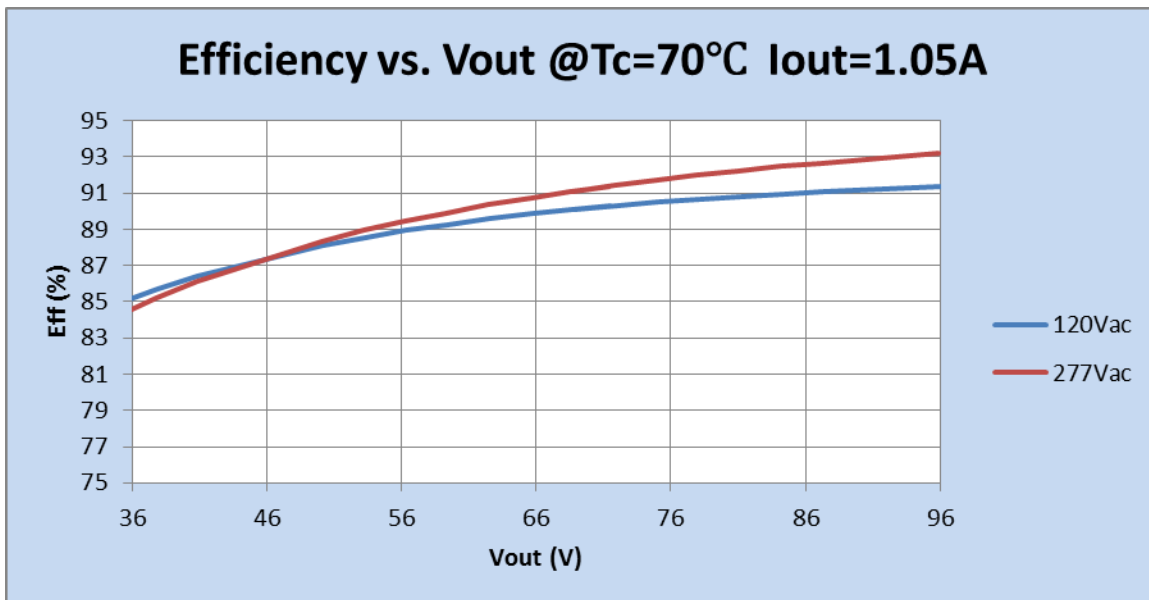
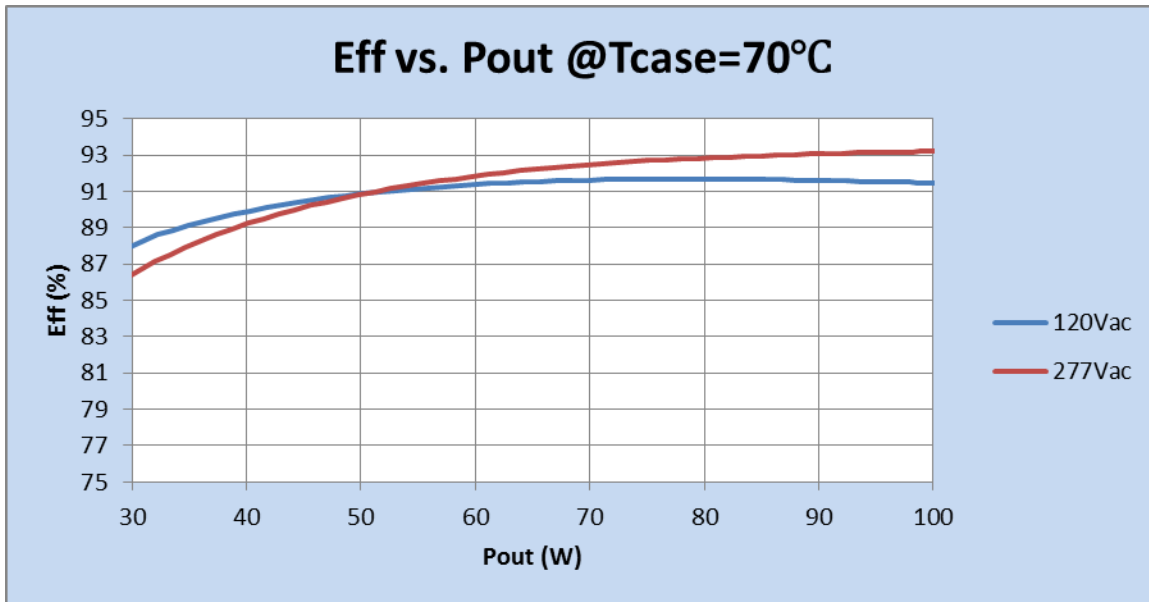
V _{in}	I _{peak}	T (@ 50% of I _{peak})
120 Vac	63A	137us
277 Vac	153A	124us

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

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Mechanical Specifications

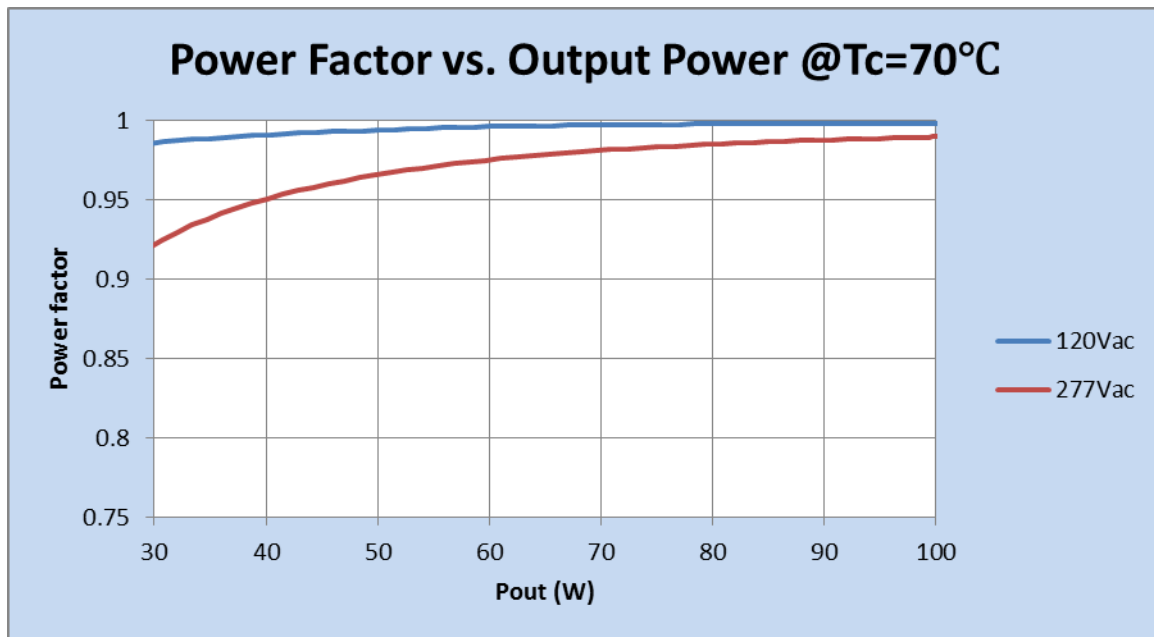
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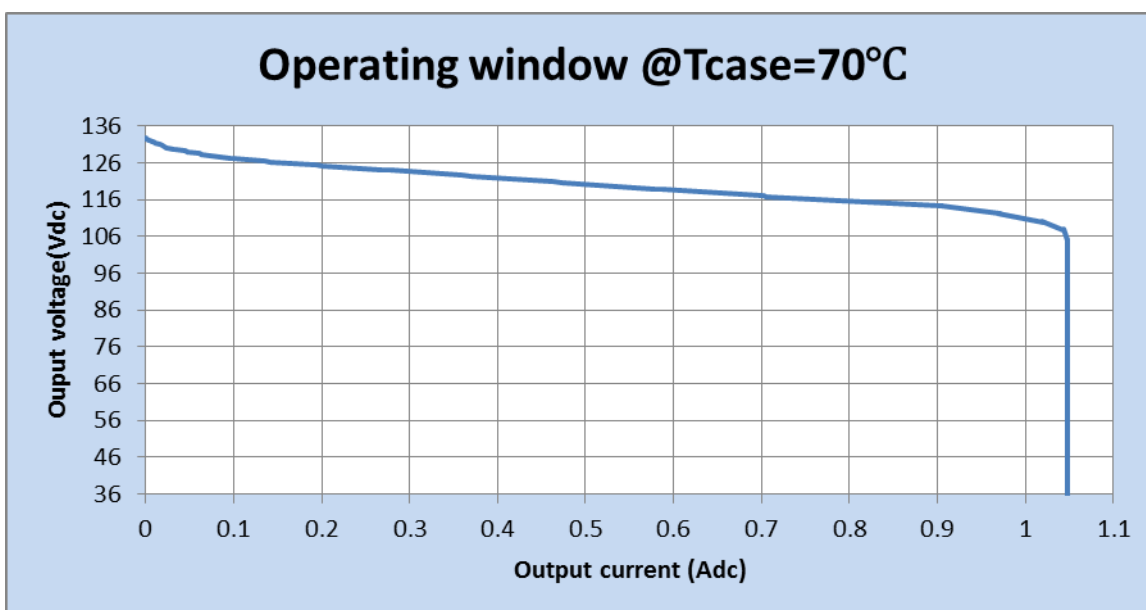
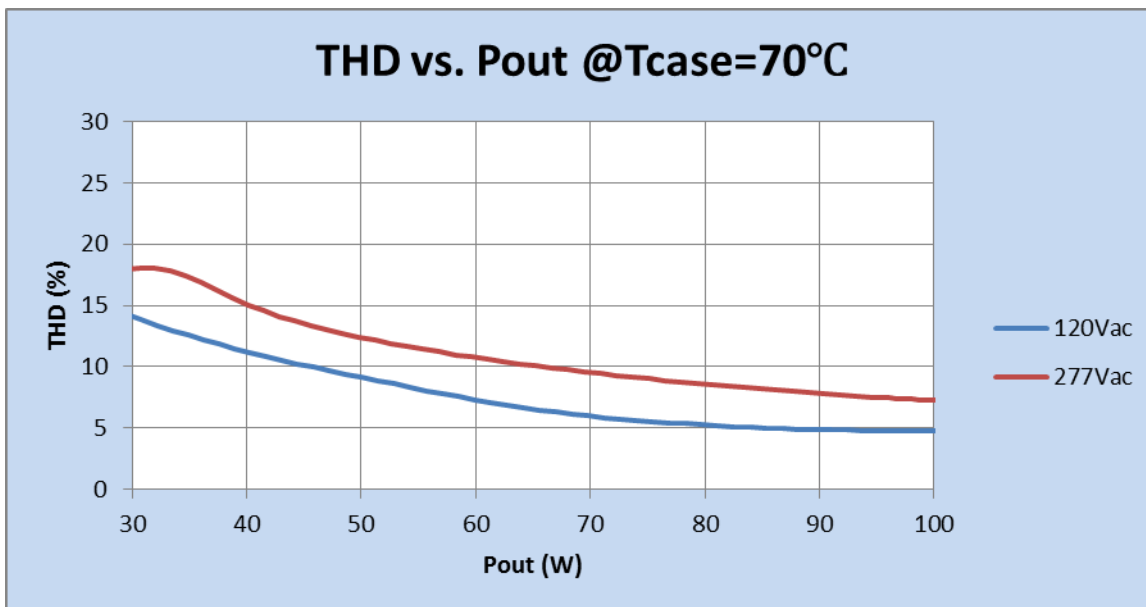
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Isolation:

Isolation	Input	Output	0-10V (Class 1 & 2)	Enclosure
Input	Not Applicable	2xU+1kV	2.5KVac	2xU+1kV
Output	2xU+1kV	Not Applicable	2.5KVac	2xU+1kV
0-10V (Class 1 & 2)	2.5KVac	2.5KVac	Not Applicable	2xU+1kV
Enclosure	2xU+1kV	2xU+1kV	2xU+1kV	Not Applicable

Lighting 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 Combination Wave (w/t 2 Ω)	3kV	3kV

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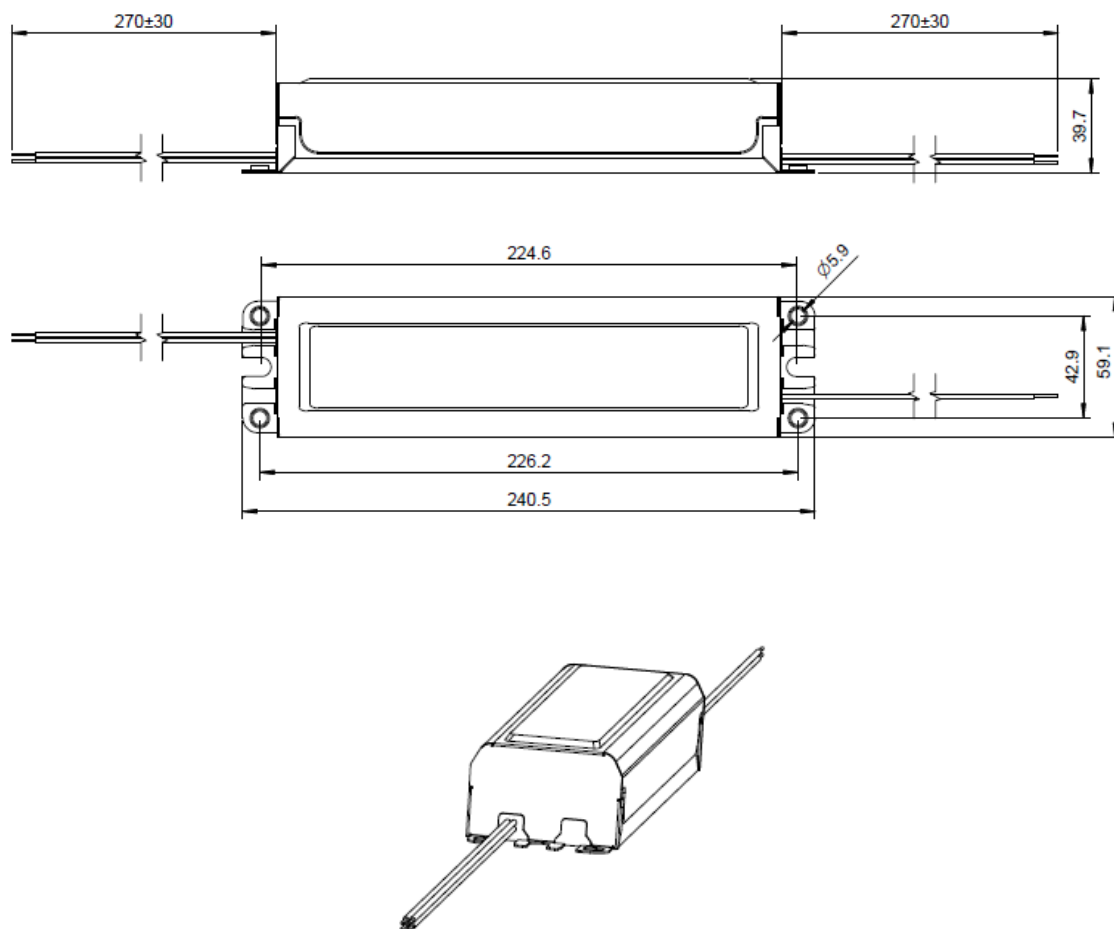
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Mechanical drawing:



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