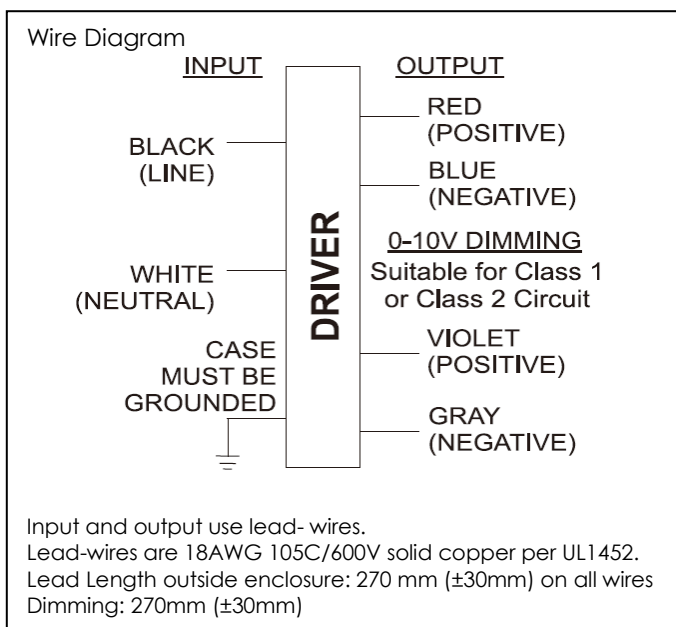


## Product Overview

XI150C105V140CNF1M	
Brand Name	XITANIUM
Description	XITANIUM 150W 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 <sub>pk</sub> /50%-μs)	THD @ Max Load (%)	Power Factor @ Max Load	Surge Protection Common/Diff (KV)	Weight (kg)	Envir. Protection Rating
120	150	44-140	1.05	90.7	80	1.4	169	70.3/136	<10	>0.95	3/3	2.1/0.95	UL dry & Damp
277				92.8		0.6		166/131.5	<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	1.49(37.6)
Mounting Length	9.0(226.2)
Mounting Width	1.7(42.9)
Overall Length	9.54(240.5)



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## Electrical Specifications

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

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Approbations	UL, CSA
Status	Released

12NC	929000722913
Order code	XI150C105V140CNF1
Full product code	XI150C105V140CNF1M
Full product name	XITANIUM 150W 1.05A 0-10V Dimming
Line Voltage	120-277Vac rms
Line Current	1.4A @ 120Vac, 0.6 @ 277Vac, 0.67A @ 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 $\mu$ s/20 $\mu$ s Combination Wave with 2 Ohms source impedance, L-N, L-PE, N-PE)
Output voltage range	44Vdc to 140Vdc
Maximum open circuit voltage	220Vdc
Output Current Ripple (ripple = peak to peak / average)	30% max @ max Iout and max Vout Low frequency ( $\leq 120$ 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 $\mu$ A $\pm$ 3% source current from driver. See dim curve for detail.
Environmental Protection Rating	UL dry and damp
Life @ Tcase 70C	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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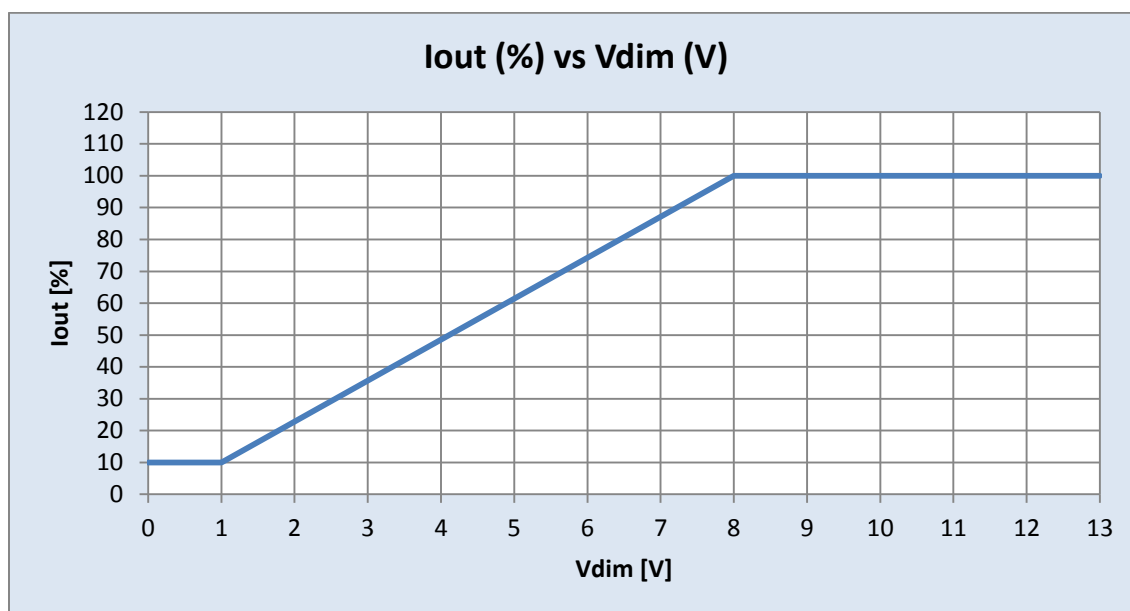
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Brand Name	XITANIUM
Description	XITANIUM 150W 1.05A 0-10V Dimming
Input Voltage	120~277V
Input Frequency	50/60Hz
RoHS	Yes
Approbations	UL, CSA
Status	Released

## 0-10V Dimming Curve:

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

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

Minimum Dim Level (nominal): 105 mA



## Approved Dimmer List

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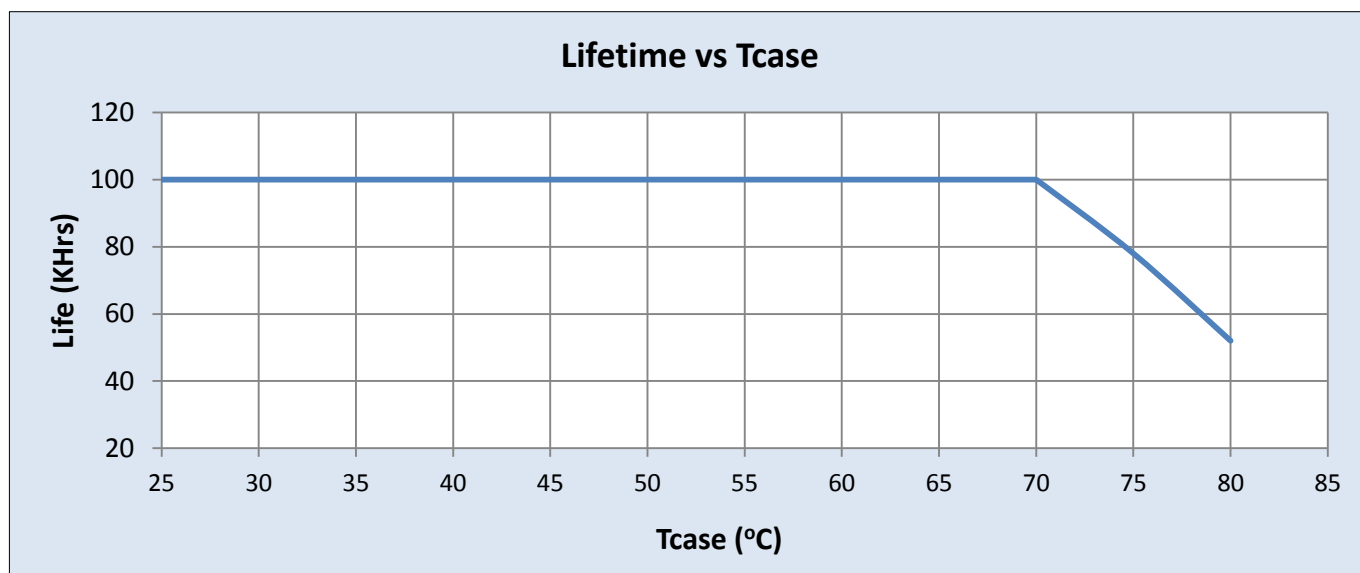
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## Electrical Specifications

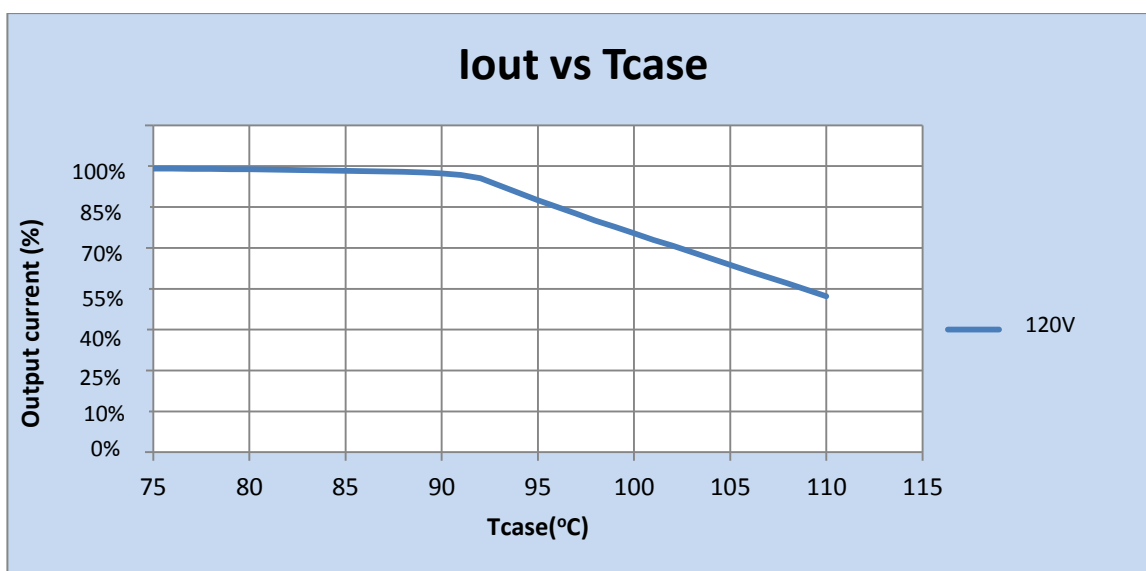
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Status	Released

## Lifetime vs. Tcase of Driver



## Iout vs Tcase of Driver



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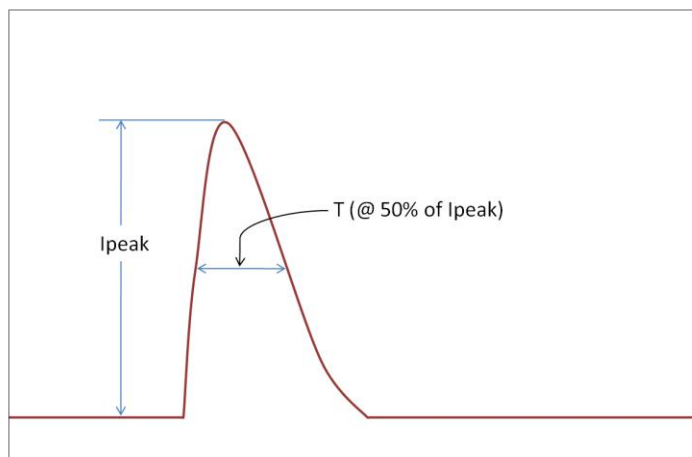
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<b>XI150C105V140CNF1M</b>	
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Input Voltage	120~277V
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RoHS	Yes
Approbations	UL, CSA
Status	Released

### Inrush Current Info:



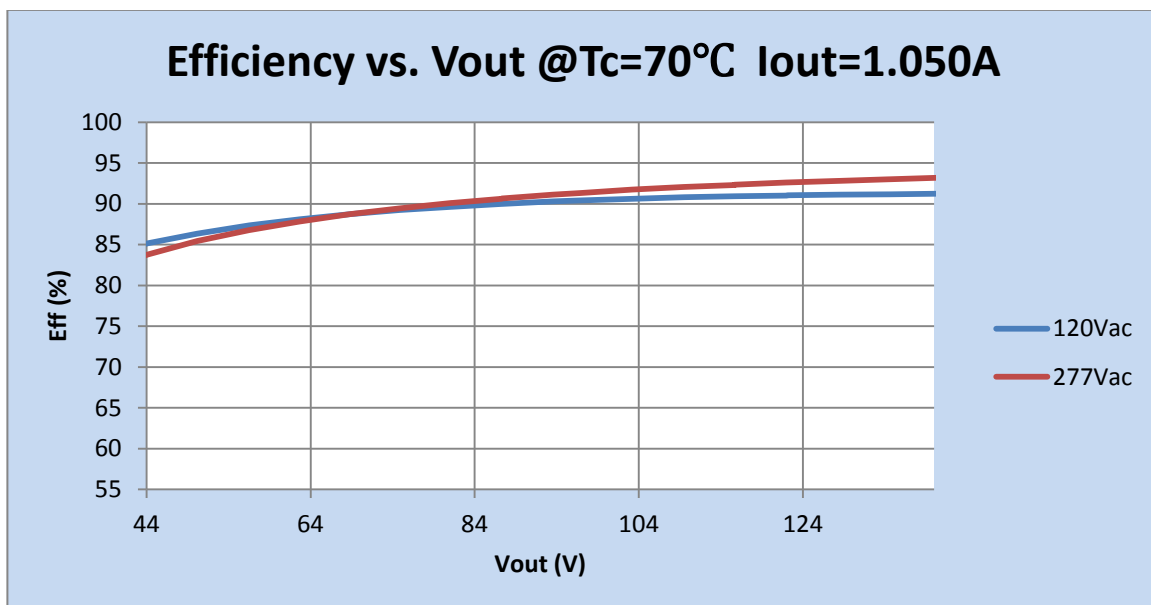
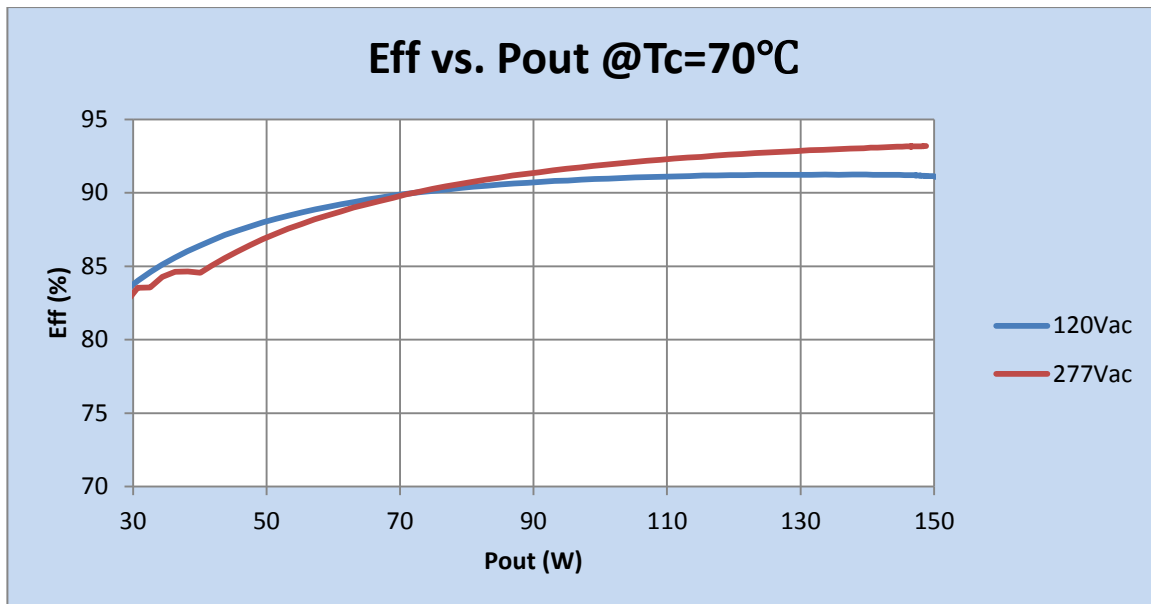
Vin	Ipeak	T (@ 50% of Ipeak)
120 Vac	70A	136us
277 Vac	149A	124us

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

## Electrical Specifications

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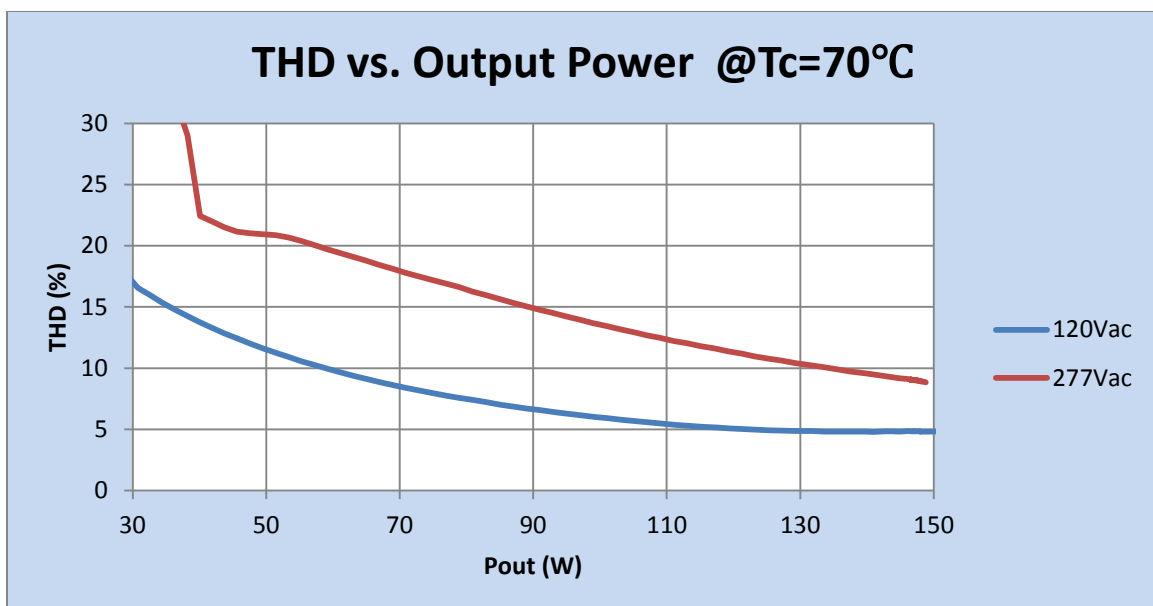
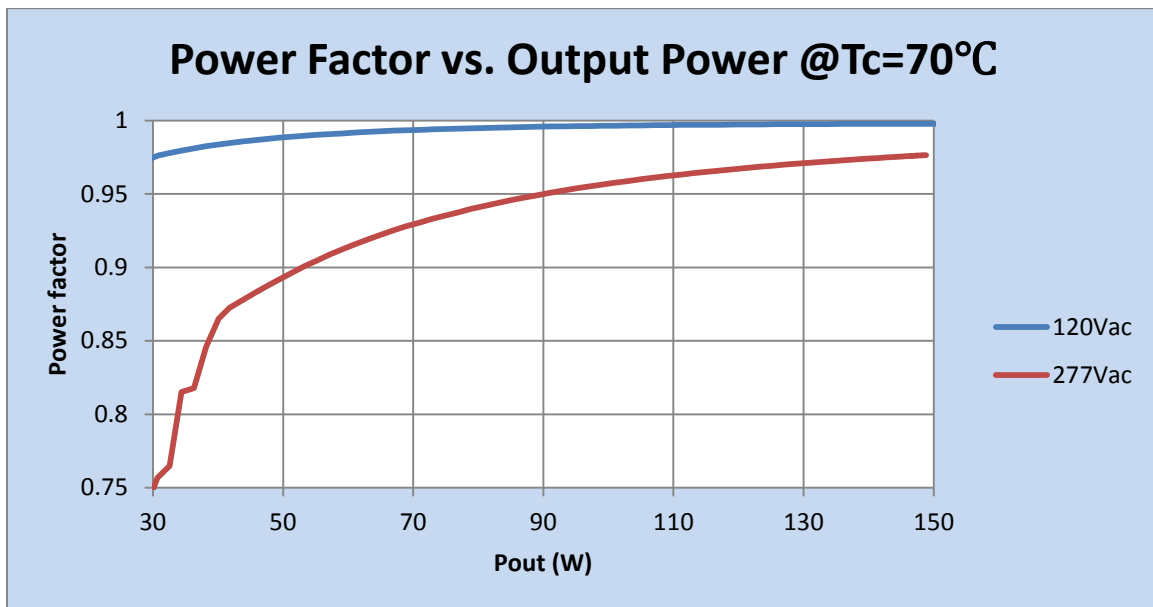
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XI150C105V140CNF1M	
Brand Name	XITANIUM
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Input Voltage	120~277V
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RoHS	Yes
Approbations	UL, CSA
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### Electrical Specifications

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<b>XI150C105V140CNF1M</b>	
Brand Name	XITANIUM
Description	XITANIUM 150W 1.05A 0-10V Dimming
Input Voltage	120~277V
Input Frequency	50/60Hz
RoHS	Yes
Approbations	UL, CSA
Status	Released

### 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 30Ω)	N/A	N/A
1.2/50μs Combination Wave (w/t 2Ω)	3kV	3kV

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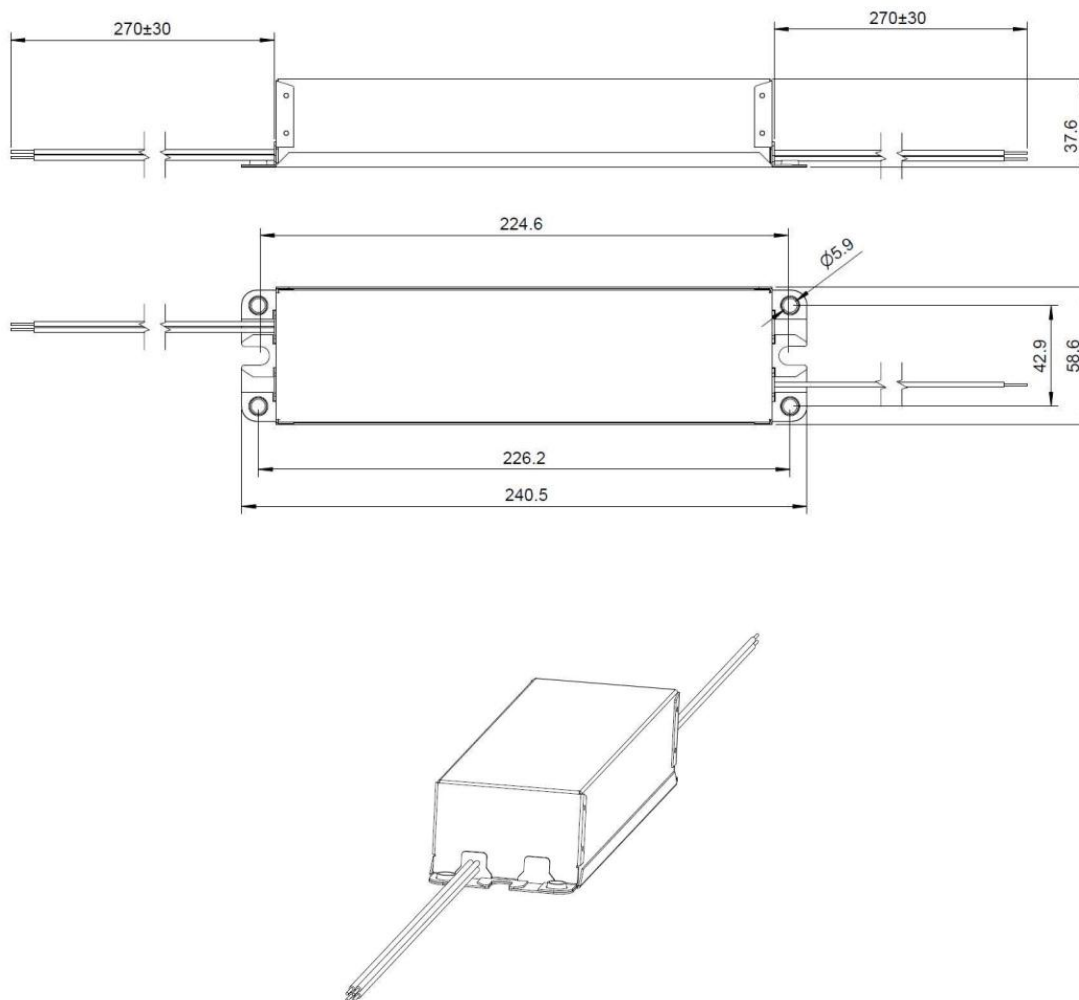
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## Mechanical Specifications

<b>XI150C105V140CNF1M</b>	
Brand Name	XITANIUM
Description	XITANIUM 150W 1.05A 0-10V Dimming
Input Voltage	120~277V
Input Frequency	50/60Hz
RoHS	Yes
Approbations	UL, CSA
Status	Preliminary

Mechanical drawing:



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