

Competitive Position



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Competitive Position

- Inventronics objective in design is to provide products that:
 - Provide best ROI for lighting projects
 - Cost effective
 - Highly efficient
 - Long life
 - High reliability

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Product Performance

- When comparing Inventronics to other competitors there are a number of key specifications to compare (use the data sheets).
- These include:
 - Efficiency
 - Thermal performance
 - Input voltage range
 - Surge protection
 - EMC
 - Life/Reliability
 - IP Rating
 - Inrush current
 - Power factor
 - Design standards

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Design Standards

- EN 61347 – 1 (General & safety requirements for lamp controlgear)
- EN 61347 – 2-13 (Particular requirements for d.c. or a.c. supplied electronics controlgear for LED modules)
- EN 55015 (Conducted emissions test & radiation emissions tests)
- EN 61000 – 3-2 (Harmonic current emissions Class C)
- EN 61000 – 3-3 (Voltage fluctuations and flicker)
- EN 61000 – 4-3,4,5,6,8,11 (EMS standards)
- EN 61547 (Electromagnetic immunity requirements for lighting equipment)
- UL 8750 (Light Emitting Diode (LED) equipment for use in lighting products)

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**PHILIPS
ADVANCE**

Electrical Specifications

LED-120A-0012V-50-F	
Brand Name	XITANIUM
Driver Type	Electronic
Input Voltage	120
Input Frequency	50/60Hz
RoHS	No
Status	Active

Output Power (W)	Output Voltage (V)	Output Current (A)	Operating Temp. Range (°F/°C)	Input Current at 120V (A)	Max. Input Power (W)	Inrush Current (A _{pk} /μs)	Max. THD (%)	Min. Power Factor	Surge Protection (KV)	Weight (Lbs)	IP Rating
10 ~ 60	12	0.8 ~ 5.0	-40°~140°F (-40~60°C)	0.63	75	-	20	0.9	2.5	1.4/635	IP66

Implies 80% efficiency
Inventronics is 87%
Advance dissipates 67%
more power in their driver!

???

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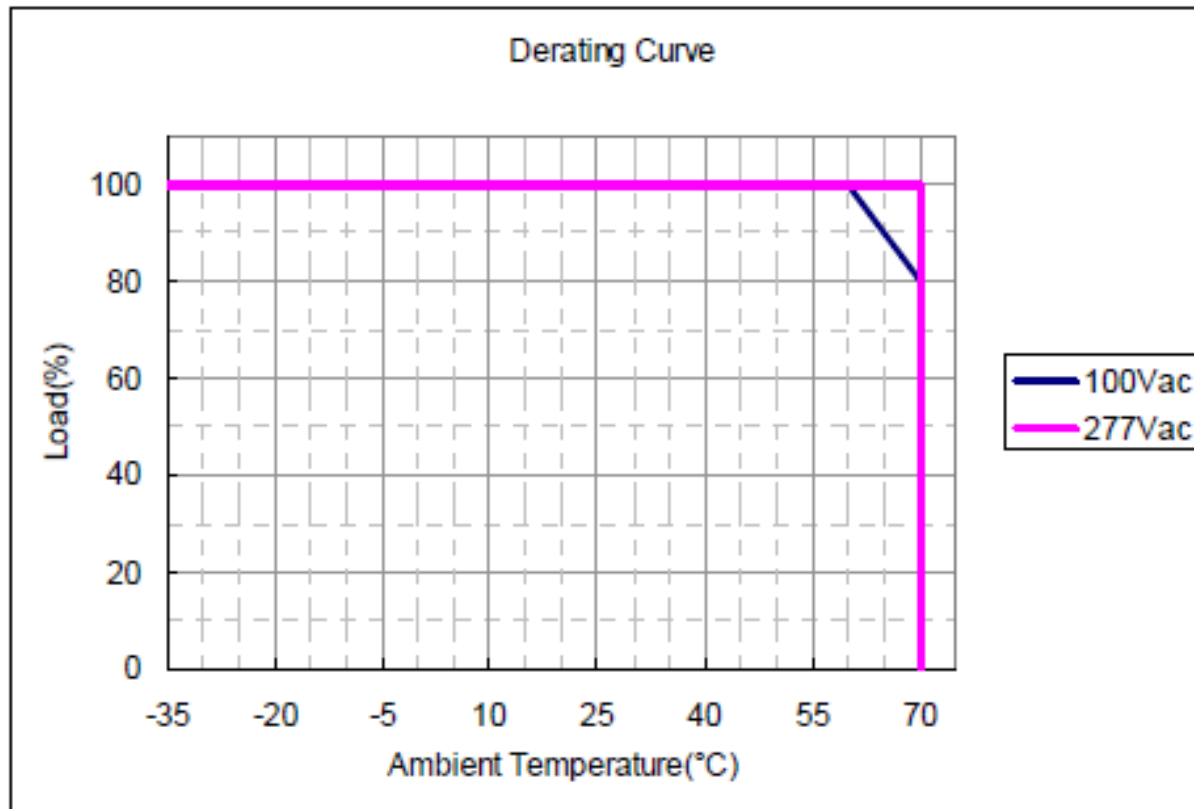
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Characteristic	Xitanium 150w	Inventronics 150w
Tc max.	80 °C	90 °C
Ambient Temp. Range	-40 to +55 °C	-35 to +70 °C
IP	66	67
Input Voltage	120-277 V	90-305 V
MTBF to MIL HDBK 217	???	342,000 hours
Inrush current	130 A	65 A

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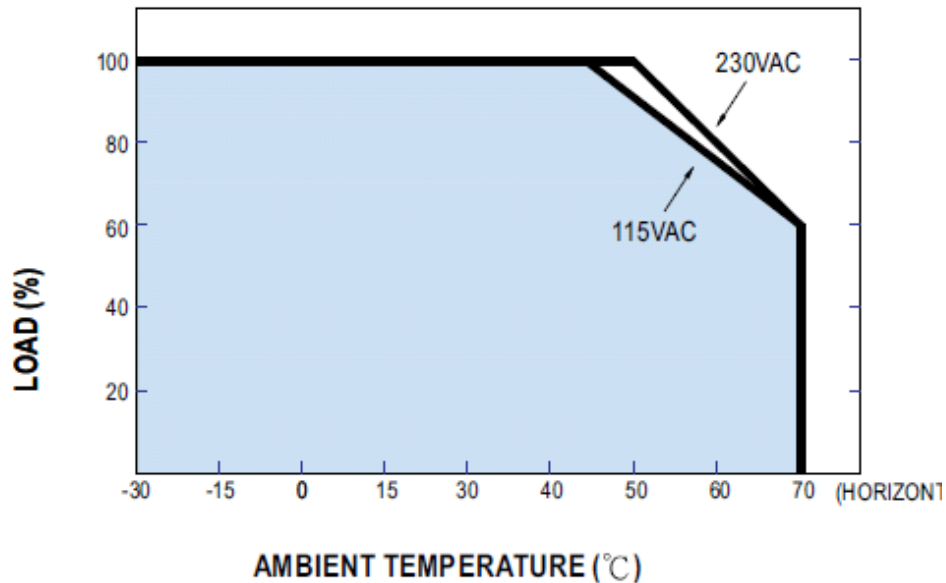
Thermal Performance – EUC-150SxxxDV/DT

Derating Curve

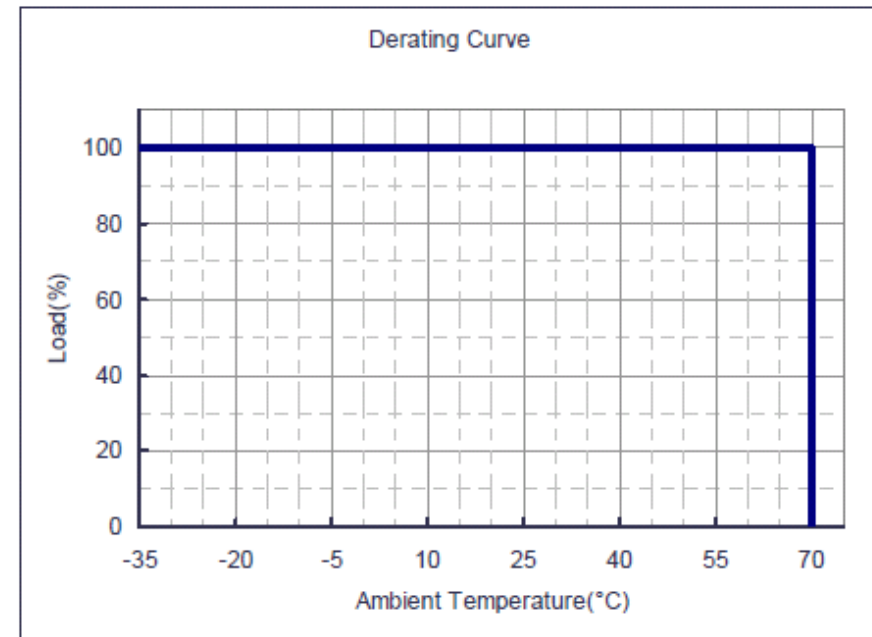


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Thermal Performance – check the de-rating curves



Mean Well LPV Series



Inventronics EUV-076

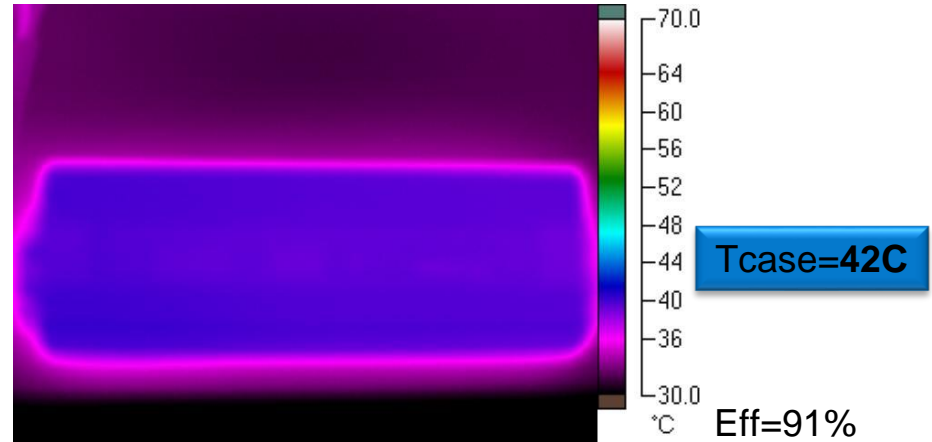
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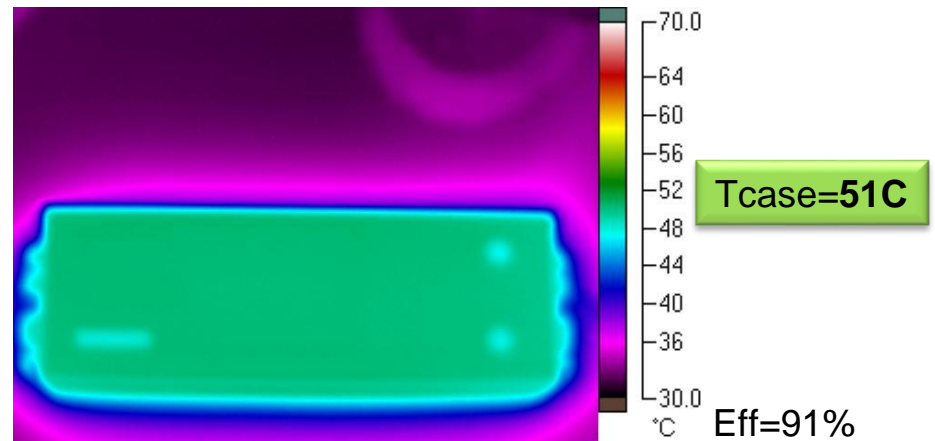
150W driver, aluminum enclosure, with fins and good thermal conducting potting material



150W driver, steel enclosure, without fins



Room temperature, 120Vac, full load condition, output current = 3.2A



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Other points regarding Inventronics' value proposition

- Company focus on LED drivers
- Design capabilities
- Product development process
- Qualification process
- Manufacturing and quality assurance processes
- Thermal performance and reliability
- Customer service and support
- Modified and customs solutions available