



The Advance Xitanium Sensor Ready (SR) LED driver can help reduce complexity and cost of light fixtures used in connected lighting systems for indoor lighting applications. It's D4i certified and features a standard-compliant digital interface to enable direct connection to compatible networked lighting control (NLC) solutions. The minimum dimming level has been improved to be as low as 1%. Advanced lighting control functionalities that ordinarily would require additional auxiliary component are integrated into this driver. The result is a simple, cost-effective light fixture that supports the most advanced smart lighting use cases.

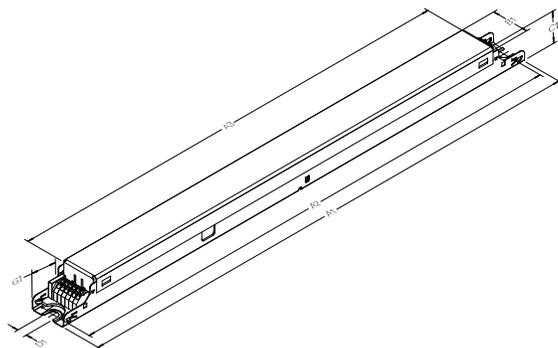
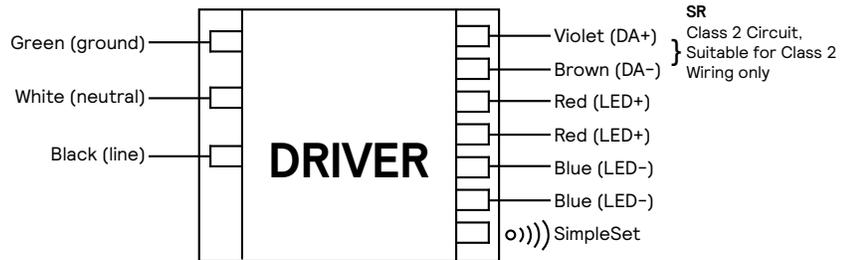
### Specifications

Input Volt. (Vac)	Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency @ Max Load and 70°C Case (%)	Max Case Temp. (°C)	Input Current (A)	Max. Input Power (W)	THD @ Max Load	Power Factor @ Max Load	Surge Protect. (Ring Wave, KV)	Envir. Protect. Rating	Dim. Range (with specified dimmers)	Min. Output Current (A)	Other Comments	
120	75	10 - 54	0.1 - 2.0	87.50%	Life - 80°C	0.7	87.5	<10%	>0.95	2.5	UL damp & dry	SR	1% ~ 100%	0.007	SR input current (PSU off), max 2mA
277				89.50%	UL - 85°C	0.3		<15%							

### Enclosure

	In. (mm)	Tolerance (mm)
Overall Length (A1)	16.69 (424.0)	± 0.5
Mounting Hole Distance (A2)	16.34 (415.0)	± 0.5
Case Length (A3)	14.49 (368.0)	± 0.5
Case Width (B1)	1.20 (30.5)	± 0.5
Case Height (C1)	1.02 (25.8)	± 1.0
Mounting Hole Diameter (D1)	0.31 (7.9)	± 0.5
Center of SimpleSet Antenna (G1)	0.76 (19.4)	± 3.0

### Wiring Diagram



#### WARNING

Install in accordance with national and local electrical codes.  
 Use 18 AWG Solid Copper Wire Rated  $\geq 90$  °C.  
 Strip Wire 3/8".  
 For Class 2 wiring, use 20 AWG - 16 AWG.

#### GROUNDING

Driver case must be grounded.

# Xitanium SR XI075C200V054VPT3

## 75W 2.0A SR 54V (1%) with SimpleSet

### Features

- Standard-compliant (ANSI C137.4 and DiiA) digital interface including:
  - Integrated DALI bus power supply (Part 250)
  - Memory Bank 1 extension, Energy Monitoring and Diagnostics (Parts 251, 252, 253)
- Energy metering and advanced diagnostics
- Continuous dimming down to 1%
- Low standby power <0.25W with no loading and

<0.5W with 0.15W load

- Drive current setting via SimpleSet wireless programming
- 5-year limited warranty\*

### Benefits

- Enable interoperability with diverse wireless sensors/network systems
- Reduce complexity and cost of fixture by eliminating auxiliary components ordinarily re-

quired for powering sensors, switching fixture off and monitoring energy use

- Future proof through standard interface to any suitable sensor and ease of adjustable drive current

### Application

- Indoor linear applications such as troffers and pendants

### Product Data

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

Order Information	
Order Code	XI075C200V054VPT3M (Mid-Pack, 12pcs/Box), 12NC: 929002710913
GTIN	781087165348
Input Information	
Line Frequency	50/60Hz
Min. Mains Voltage Operational	108Vac
Max. Mains Voltage Operational	305Vac
Output Information	
Maximum Open Circuit Voltage	<60Vdc
Output Current Ripple (ripple = peak to average / average)	15% max @ max lout 4% max @ Visible for Stroboscopic Frequency range 60Hz-3KHz
Pst/SVM	Meets NEMA77
Output Current Tolerance	<5%
Protections	Short Circuit, Open Circuit Protection for LED + and LED - and Temperature Foldback
Control Lead Leakage Current (SR)	0.01mA, recommended max number of control circuits in parallel, refer to Design In Guides
Features	
AOC (Adjustable Output Current)	0.1A-2.0A via SimpleSet (Factory Default at 2.0A)
Suitable for Outdoor Use?	No
Interfaces	Simpleset, Sensor Ready(SR)
Power Reporting Accuracy	+/-4% in performance window and under nominal operating conditions
Configurable Features	Adjustable Light Output (ALO) Adjustable Output Current (AOC) Constant Light Output (CLO) DiiA specification DALI Part 253 - Luminaire Maintenance (DALI 253 M) Luminaire (Fixture) Information (Luminaire Info) OEM Write Protected features (OWP) SR Power Supply (SR PSU)
SR power supply	
Current Source	52mA to 60mA
Voltage Range	12V to 20V
Communication Protocol	DALI-2, D4i, ANSI C137.4
Mis-wiring to Mains Protection	No
Environment & Approbation	
Operating Ambient Temp. Range	-20°C to +50°C
Max Case Temperature (Tcase)	85°C
Agency Approbations	UL8750, CSA C22.2 No.250.13, NOM, Class P (UL, ETL), cUL
Electromagnetic Compliance	FCC Title 47 Part 15 Class A
Audible Noise	<24dB Class A
Weight	0.79Lbs/ 0.36Kgs
Envir. Protection Rating	UL Dry and Damp

\*1. Advance Xitanium LED drivers are designed and manufactured to engineering standards correlating to an average life expectancy of 50,000 hours of operation at maximum rated case temperature. Minimum 90% survivals based on MTTF modeling

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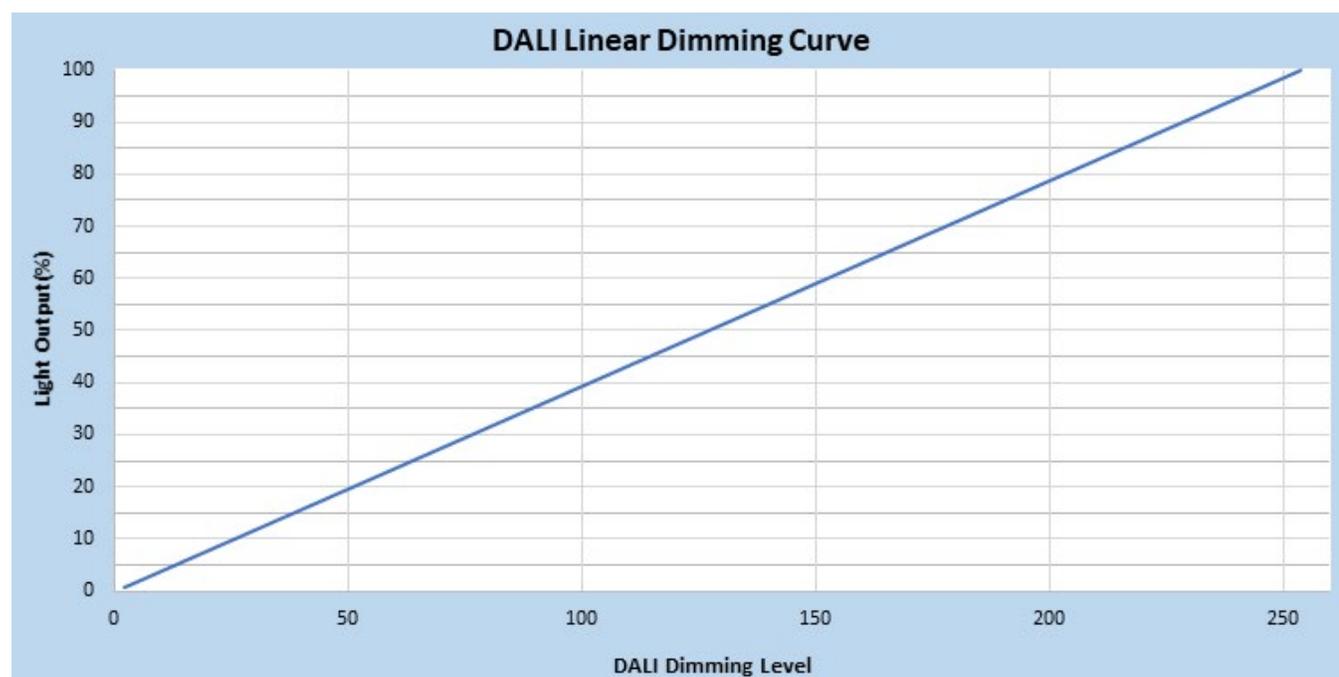
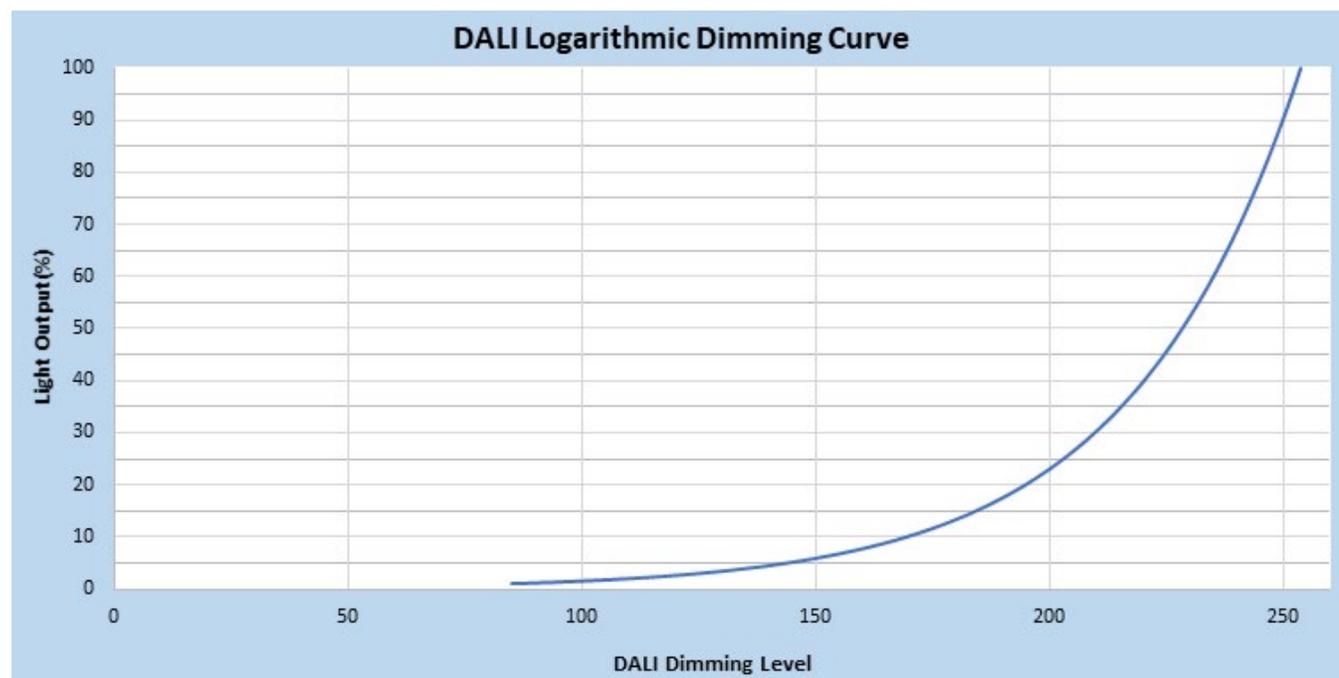
75W 2.0A SR 54V (1%) with SimpleSet

## Electrical Specifications

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

## Dimming Characteristics

Dimming is accomplished through the 2-wire DALI connection to the sensor. DALI standard IEC62386\_102 Edition 2 defines the logarithmic dimming curve. DALI standard IEC62386\_107 Edition 1 defines the linear dimming curve as well as the command for switching between logarithmic and linear curves (Default = Logarithmic).



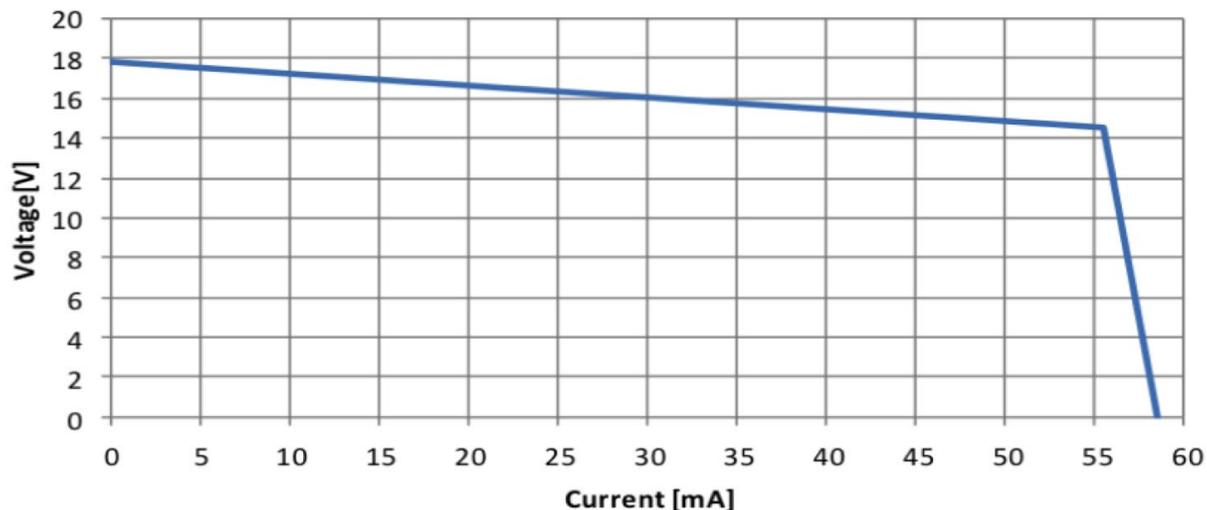
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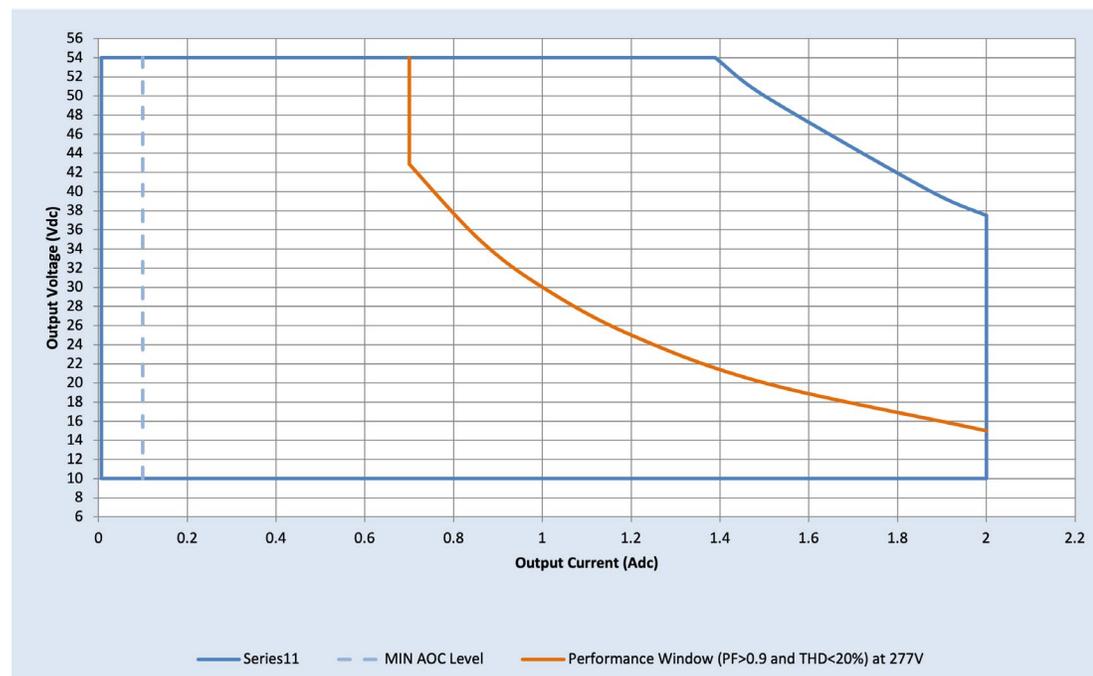
### SR Power Supply Characteristics (Typical)



#### Note:

Power supply through digital connection, default "on," for connection of one driver to one sensing/RF device. Consult your representative for use with multiple devices.

## Operating Window



#### Note:

1. Factory default output current is 2A.
2. To get a 100% to 1% dimming range, the output current setting through AOC should be  $\geq 0.7A$ .

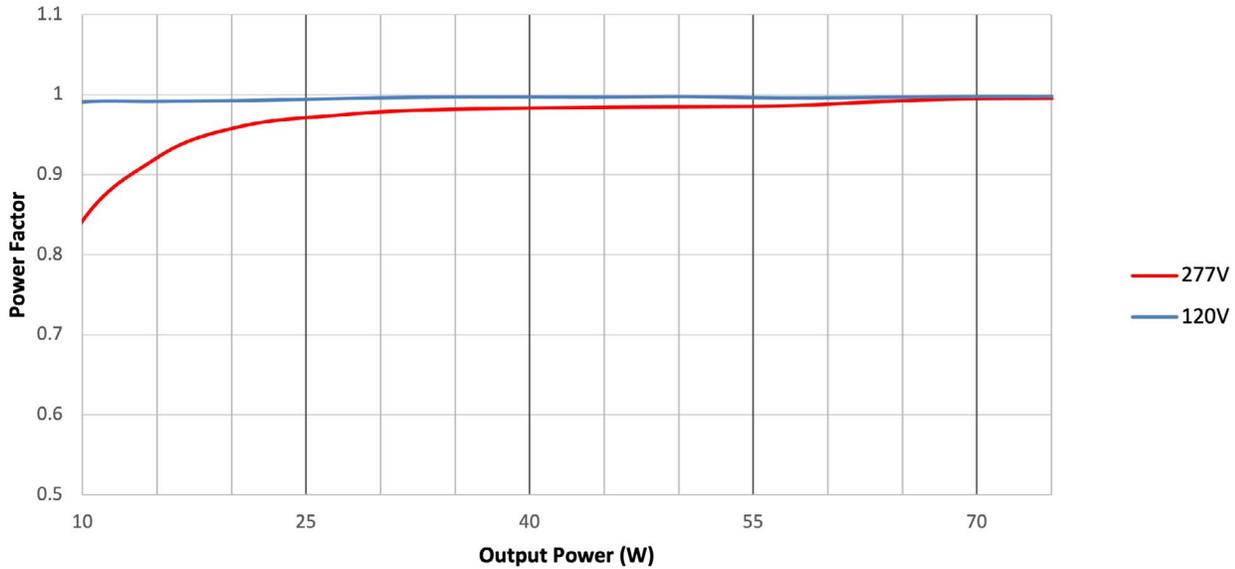
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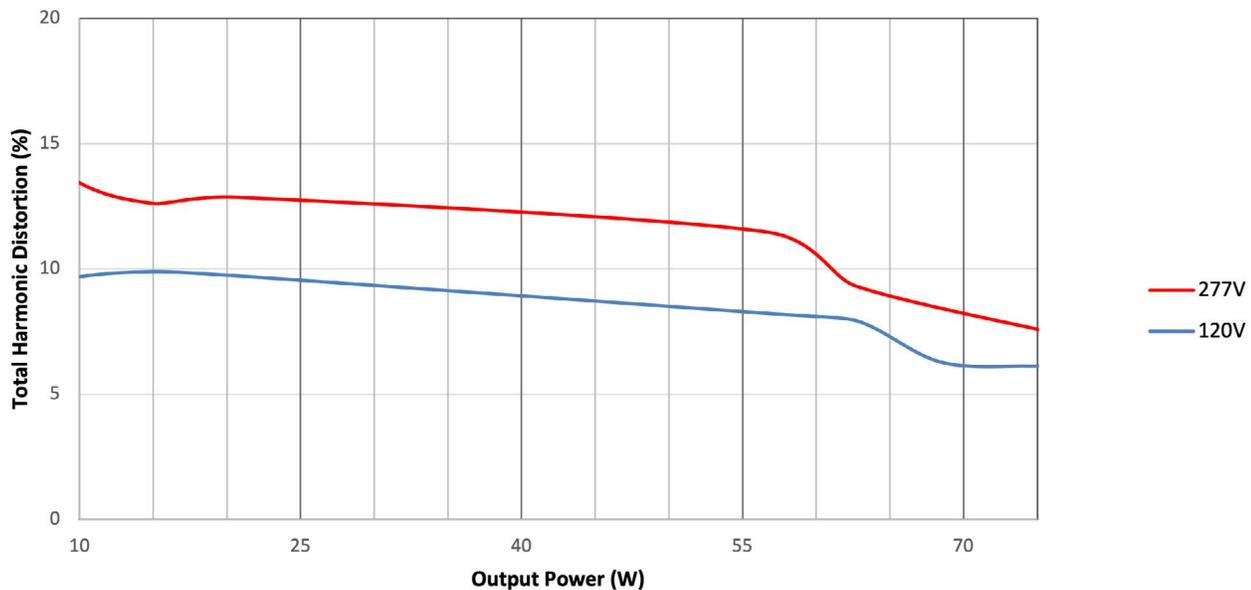
## Performance Characteristics

Based on measurements on a typical sample at 75°C case. 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.

### Power Factor vs. Output Power



### Total Harmonic Distortion vs. Output Power



### Note:

PF>0.9, THD<20%.

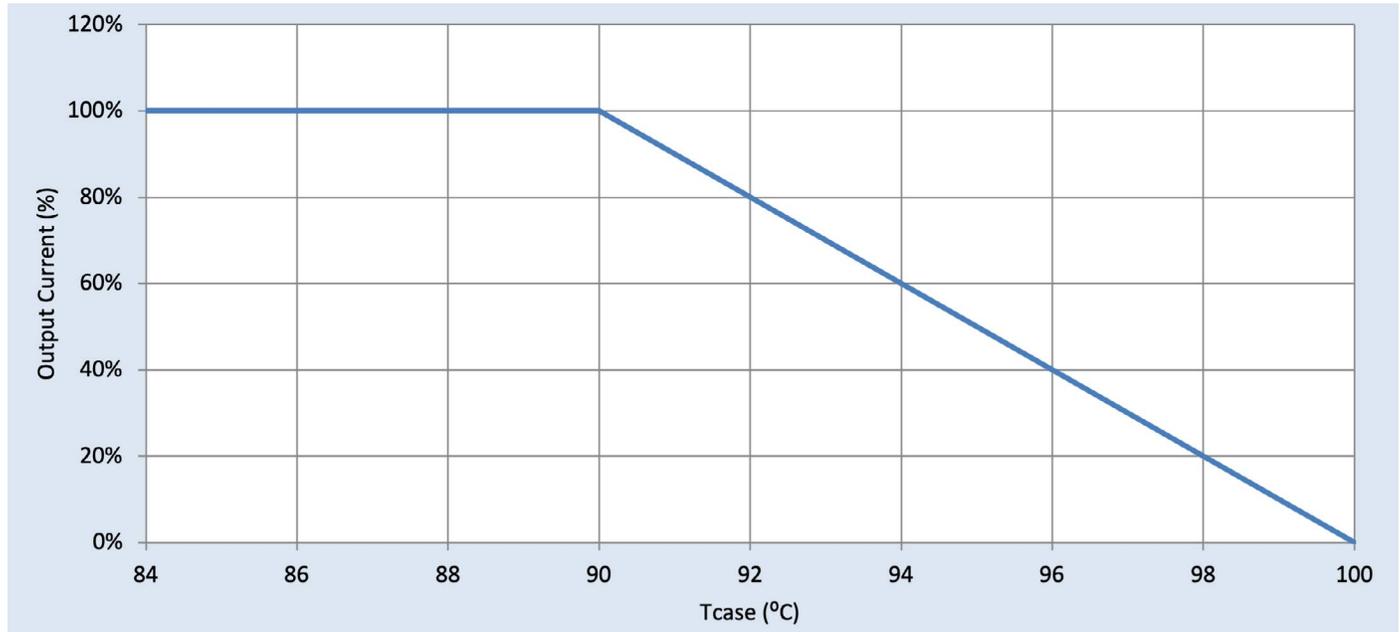
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## Performance Characteristics

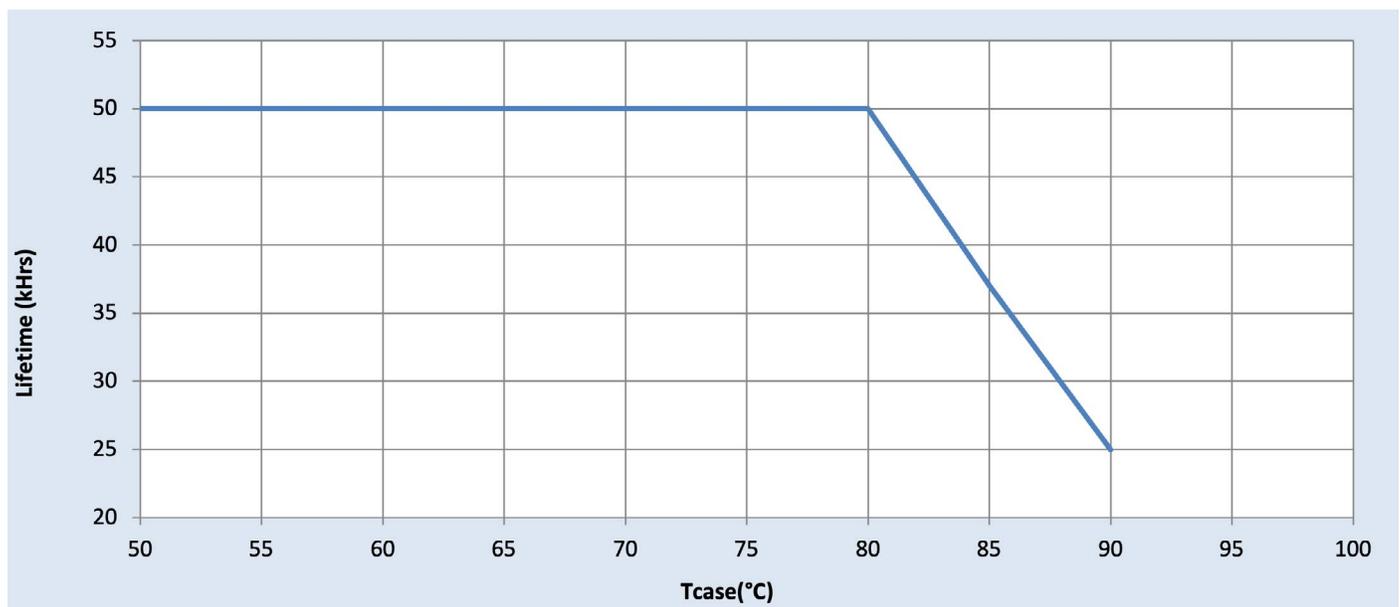
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### Output Current Vs. Driver Case Temperature



Note: There is  $\pm 5^{\circ}\text{C}$  tolerance on the driver case temperature

### Driver Lifetime vs. Driver Case Temperature



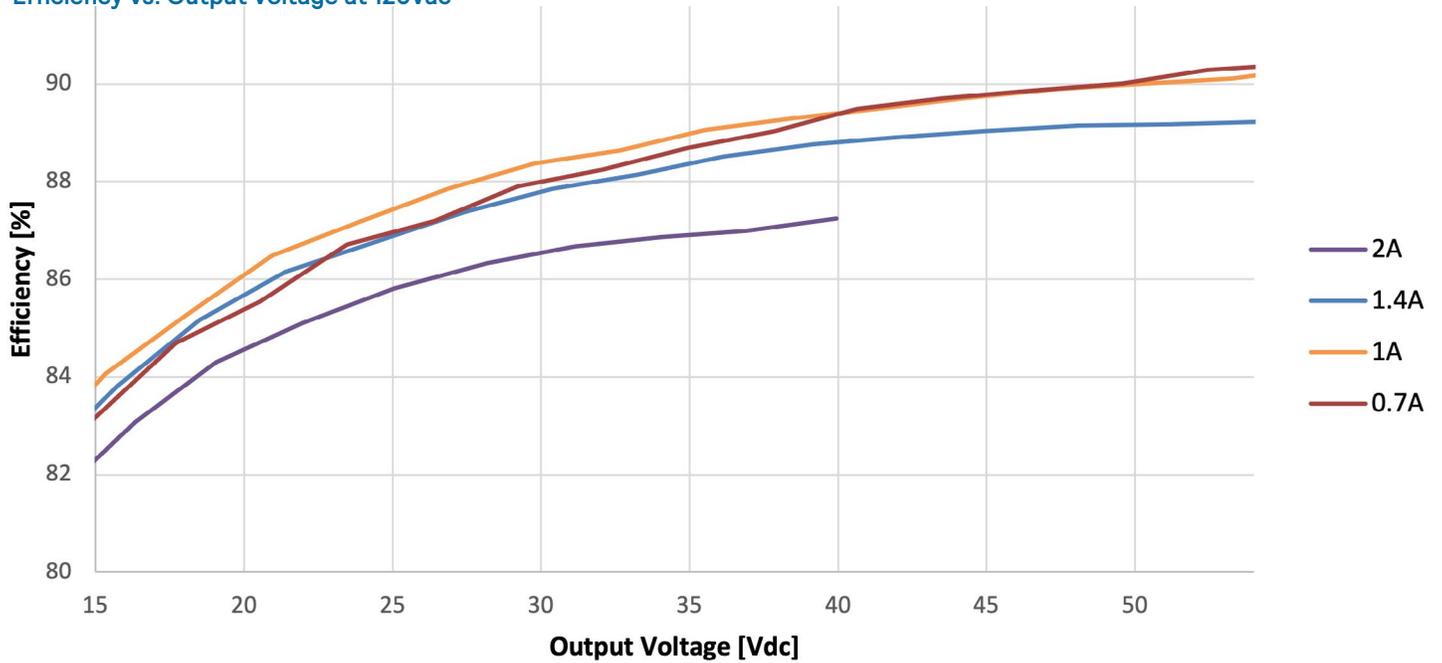
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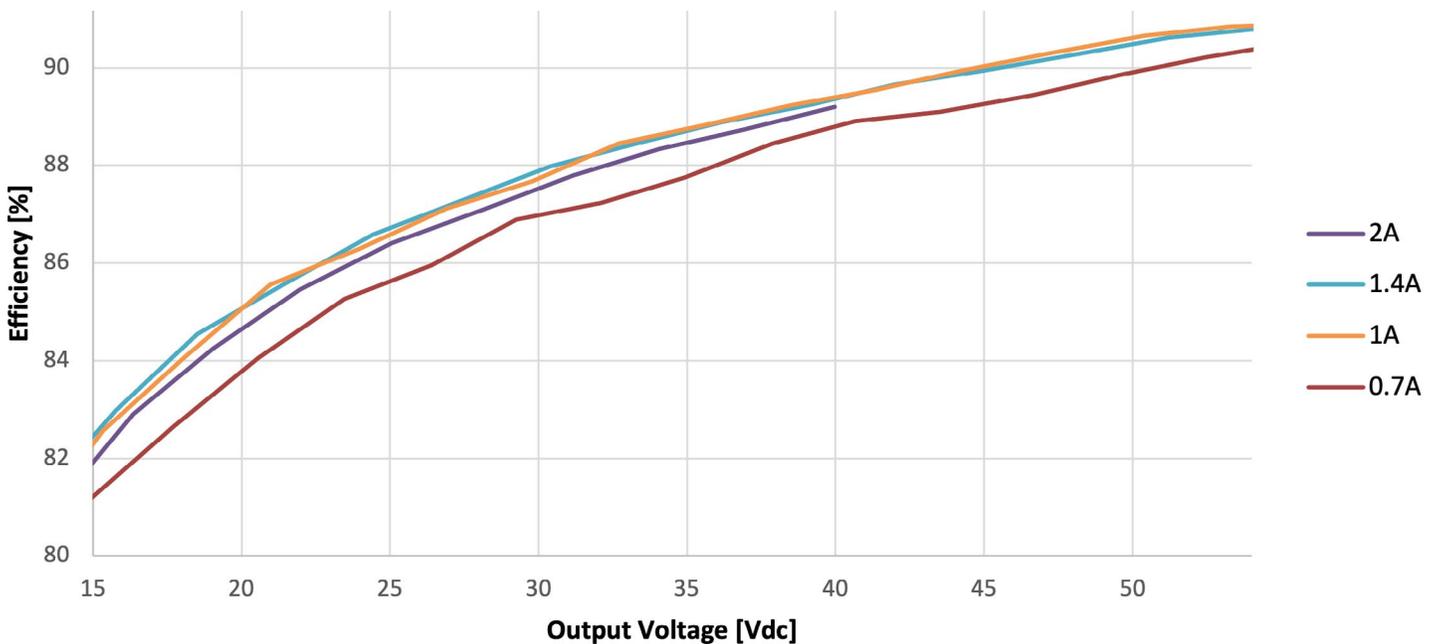
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### Efficiency Vs. Output Voltage at 120Vac



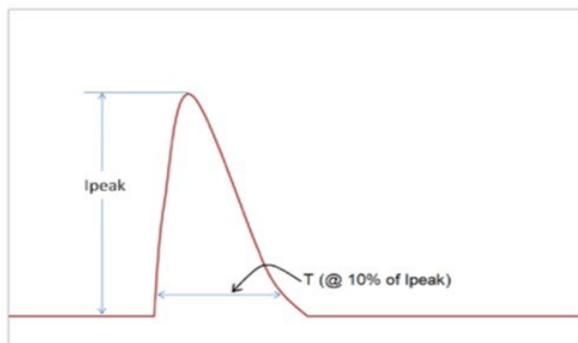
### Efficiency Vs. Output Voltage at 277Vac



# Xitanium SR XI075C200V054VPT3

75W 2.0A SR 54V (1%) with SimpleSet

## Inrush Current Info



$V_{in}$	$I_{peak}$	$T (@10\% \text{ of } I_{peak})$
120 Vrms	7A	50us
277 Vrms	17A	50us

## 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 <sub>2</sub> )	>2.5kV	>2.5kV

## Isolation:

Isolation	Input	Output	SR	Enclosure
Input	-	1610Vac	1610Vac	1610Vac
Output	1610Vac	-	500Vac	500Vac
SR	1610Vac	500Vac	-	500Vac
Enclosure	1610Vac	500Vac	500Vac	-

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