



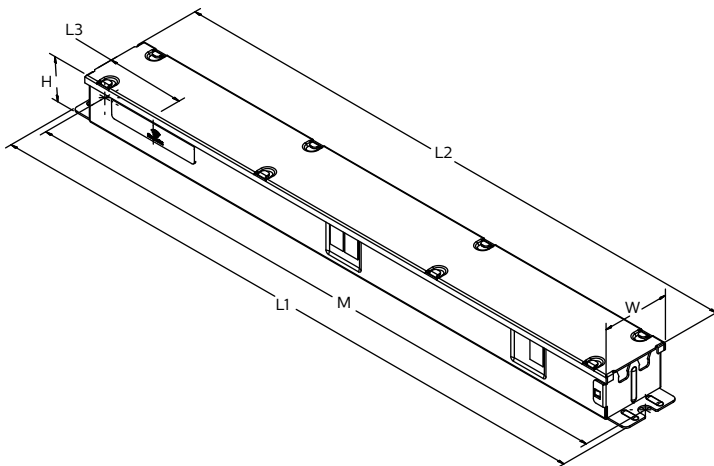
Advance Xitanium LED drivers with SimpleSet technology are designed to give OEMs ultimate flexibility with one driver to serve a complete portfolio. The operating window optimizes coverage for Class 2 in terms of power, output voltage and current. With two independent channels this driver allows the user to get much more than 100W in a compact form factor, while still complying with Class 2 limits. High driver efficiency enables very high system efficacies.

Specifications

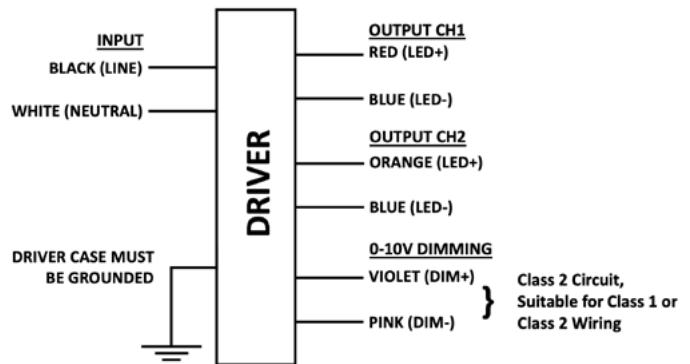
Input Voltage (Vac)	Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency @ Max Load and 75°C Case	Max Case Temp. (°C)	Input Current (A)	Max. Input Power (W)	THD @ Max Load (%)	Power Factor @ Max Load	Surge Protect. (Combi-Wave, KV)	Envir. Protect. Rating	Dim.	Dimming Range	Minimum Output Current (A)	Driver Type	Other Comments
120	190 (2X95)	20-54	0.1-2.75	88	Life - 85°C UL - 90°C	1.83	220	<10%	>0.95	6	UL damp & dry, Type HL	0-10V Analog Class 1 and 2 Wiring	5% ~ 100%	0.035	Constant Current	Dimming source current: 150 µA
277				89		0.77										

Enclosure

	In. (mm)
Case Length (L2)	15.75 (400)
Case Width (W)	1.8 (45.6)
Case Height (H)	1.22 (31)
Mounting Length (M)	16.33 (414.8)
Overall Length (L1)	16.70 (424.2)
Center of SimpleSet Antenna (L3)	2.05 (52)



Wiring Diagram



WARNING:

Risk of fire or electric shock.

Do not interconnect output terminations.

Driver case must be grounded.

Install in accordance with national and local electrical codes.

The field-wiring leads or push-in terminals shall be fully enclosed.

For connections use wire rated for at least 90°C.



Xitanium XI190C275V054BSG2

190W 2.75A 0–10V Dimming with SimpleSet

Features

- 50,000+ hour lifetime¹
- Programmable output current through SimpleSet
- Programmable driver thermal limit
- Large operating window
- 6kV combi-wave surge rating to comply with ANSI C82.77-5 CAT C low

Benefits

- Designed for Class 2 luminaires
- Improved electrical efficiency vs. XI190C275V054BSG1
- Perfect for wide range of lumen outputs 15,000 to 24,000 lumens with single driver²
- Dual channel allows high power up to 190W with UL Class 2 outputs
- No external surge protection required to pass C82.77-5 CAT C low

Application

- Linear high-bay fixtures

Electrical Specifications

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

Product Data

Order Information	
Full Product Code	XI190C275V054BSG2 (12NC = 929001780913)
Line Frequency	50/60Hz
Min. Mains Voltage Operational	108 Vac
Max. Mains Voltage Operational	305 Vac
Output Information	
Maximum Open Circuit Voltage	<= 60Vdc (Class 2 Output)
Output Current Ripple (ripple = peak to average / average)	15% max @ max lout
Output Current Tolerance (in the performance window)	<5%
Protections	Short Circuit, Open Circuit Protection for LED + and LED - and Temperature Foldback
Features	
# Of Output Channels	2 Channels of 95W each
0–10V Dimming	150µA (±3%) source current from driver. See dim curve for detail.
AOC (Adjustable Output Current)	0.1A–2.75A via SimpleSet (Factory Default at 2.3A)
Additional SimpleSet Configurable Features	Adjustable Min Dim Level, Adjustable Lumen Output, Adjustable Lumen Output Min, OEM Write Protection, Advance programmable driver thermal limit
Environment & Approbation	
Operating Ambient Temp. Range	–40°C to +55°C
Max Case Temperature (Tcase)	90°C
Agency Approbations	UL 8750, cUL, Class P (UL, cUL)
Electromagnetic Compliance	FCC Title 47 Part 15 Class A
Audible Noise	<24dB Class A
Weight	0.90kg

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

2. 24,000 lumens based on an estimated 115 LPW luminaire efficacy, and can be proportionally higher for high efficacy luminaire designs. A luminaire with 150 LPW can achieve 30,000 lumens.

Xitanium XI190C275V054BSG2

190W 2.75A 0-10V Dimming with SimpleSet

Electrical Specifications

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

0-10V Dimming Curve

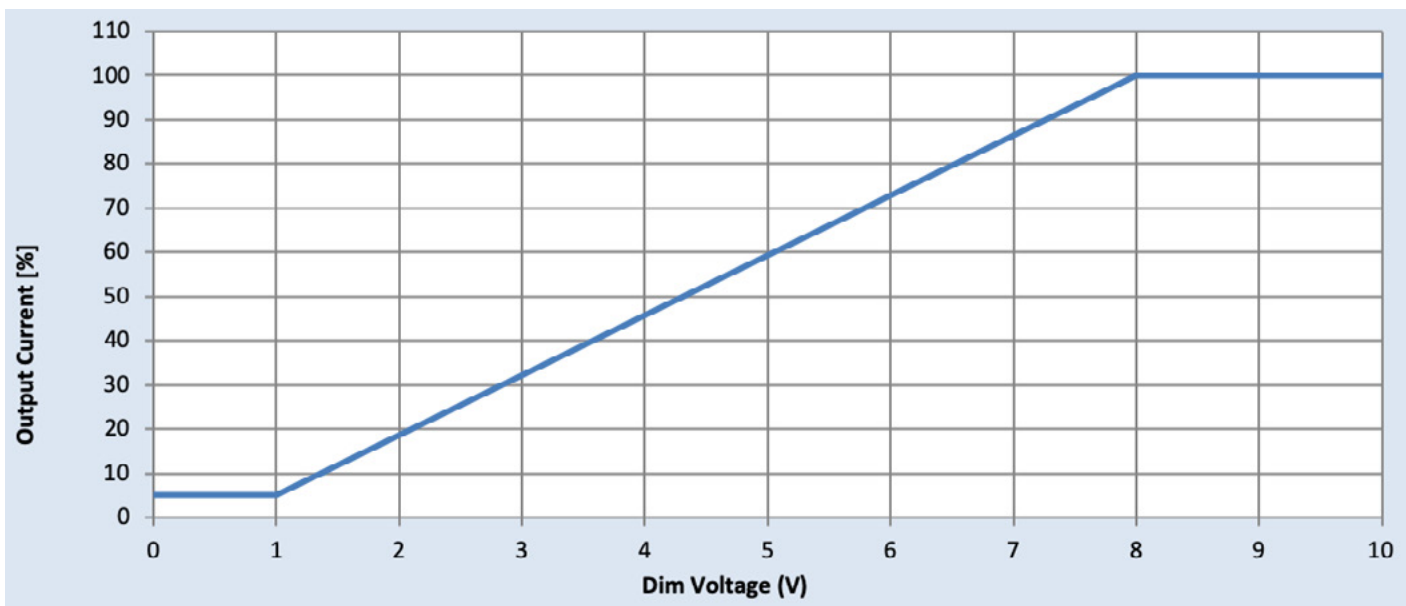
Dimming source current from the driver: 150µA (@ 0<Vdim<8V)

Minimum dim level: 5% of lout setting as default

Maximum output voltage on the dimming wires: 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
Advance	Sunrise - SR1200ZTUNV



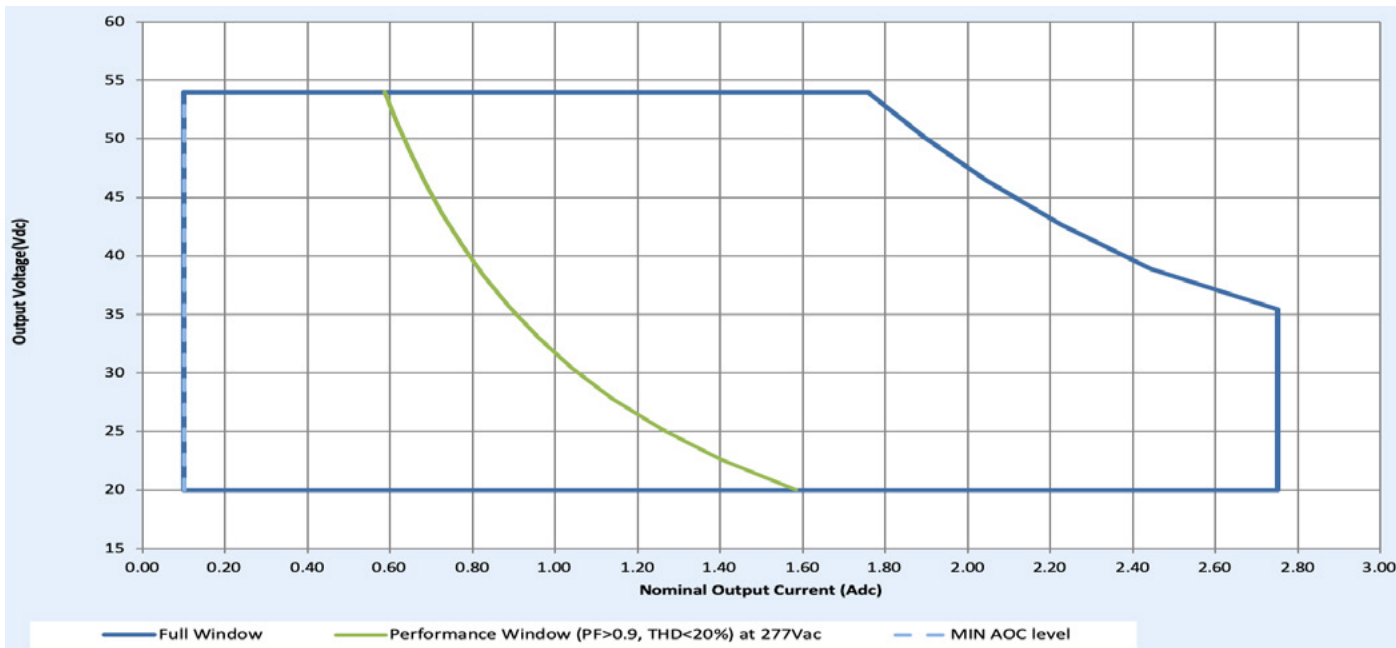
Xitanium XI190C275V054BSG2

190W 2.75A 0-10V Dimming with SimpleSet

Electrical Specifications

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

Driver Output Window



Notes

1. Factory default output current is 2.3A.
2. To get a 100% to 5% dimming range, the output current setting through AOC should be $\geq 700\text{mA}$ (at 5% min dim).
3. Factory default minimum dimming level is 5%. This can be adjusted between 5% and 100% using Advance MultiOne.
4. See page 7 for Power Factor and Total Harmonic Distortion graphs.

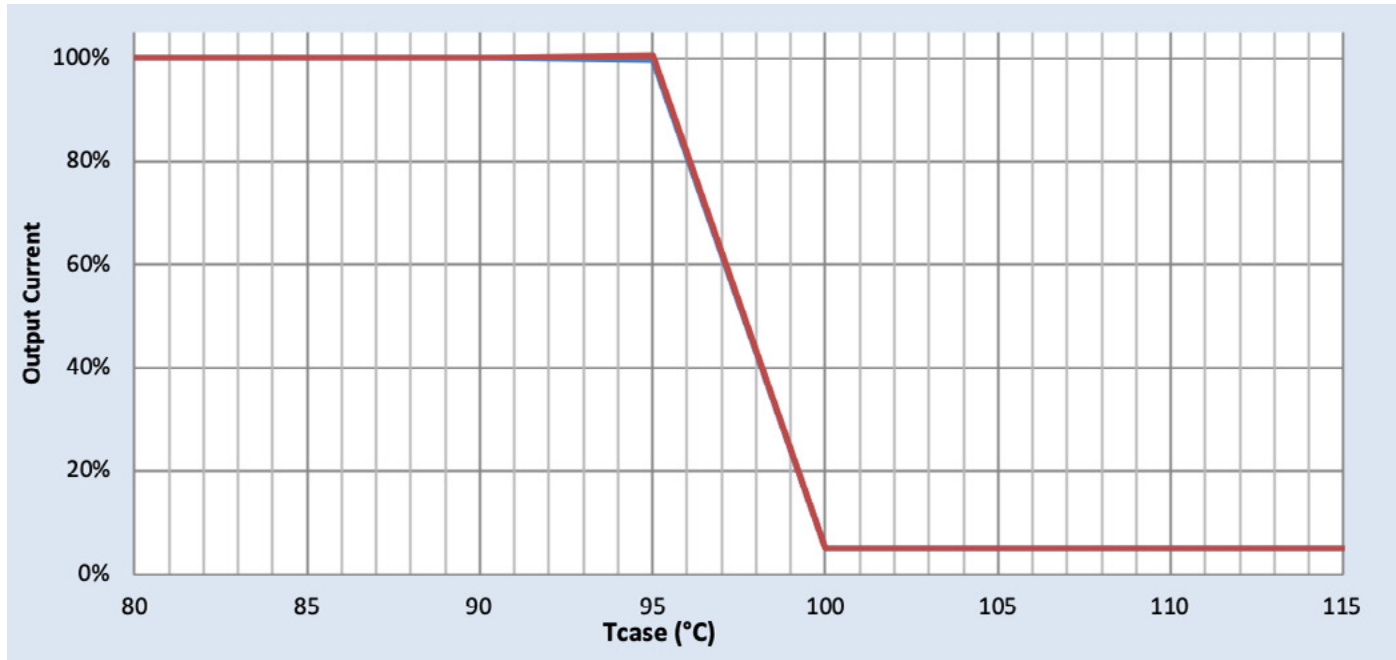
Xitanium XI190C275V054BSG2

190W 2.75A 0-10V Dimming with SimpleSet

Electrical Specifications

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

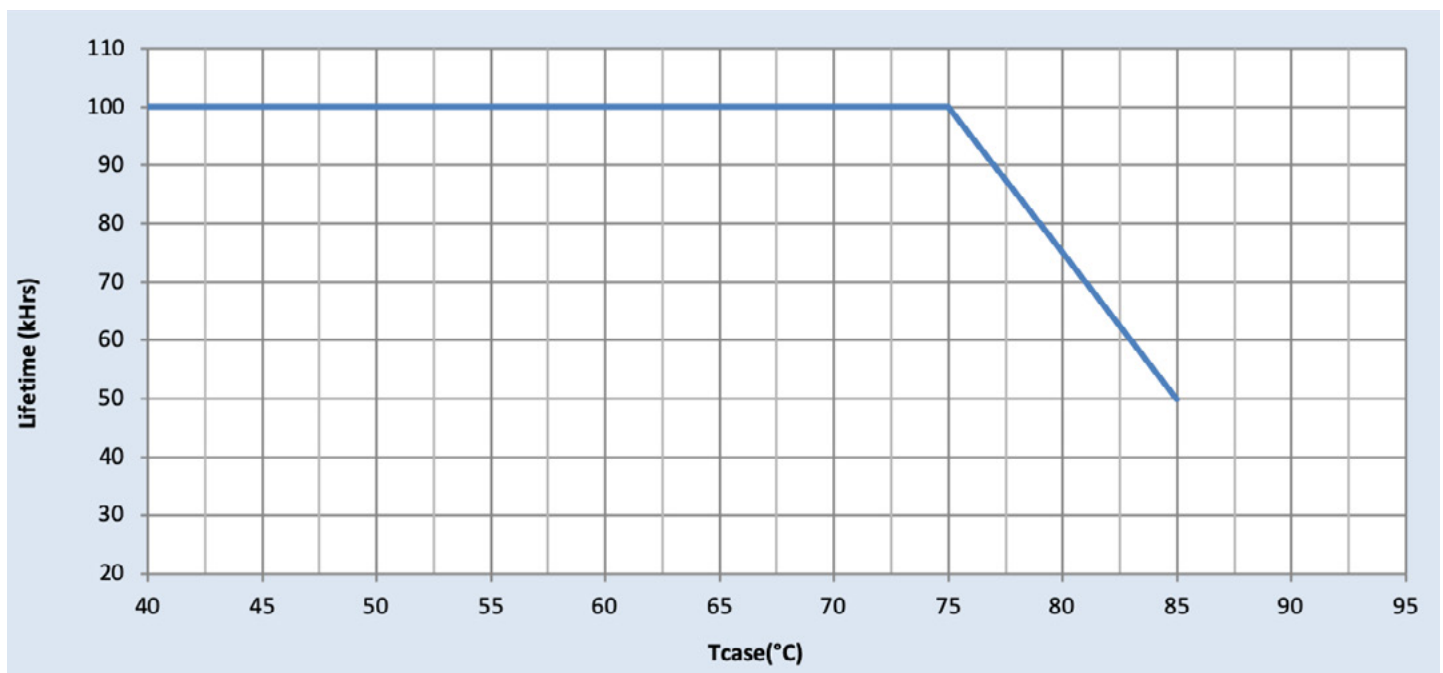
Output Current Vs. Driver Case Temperature



Note

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

Driver Lifetime Vs. Driver Case Temperature



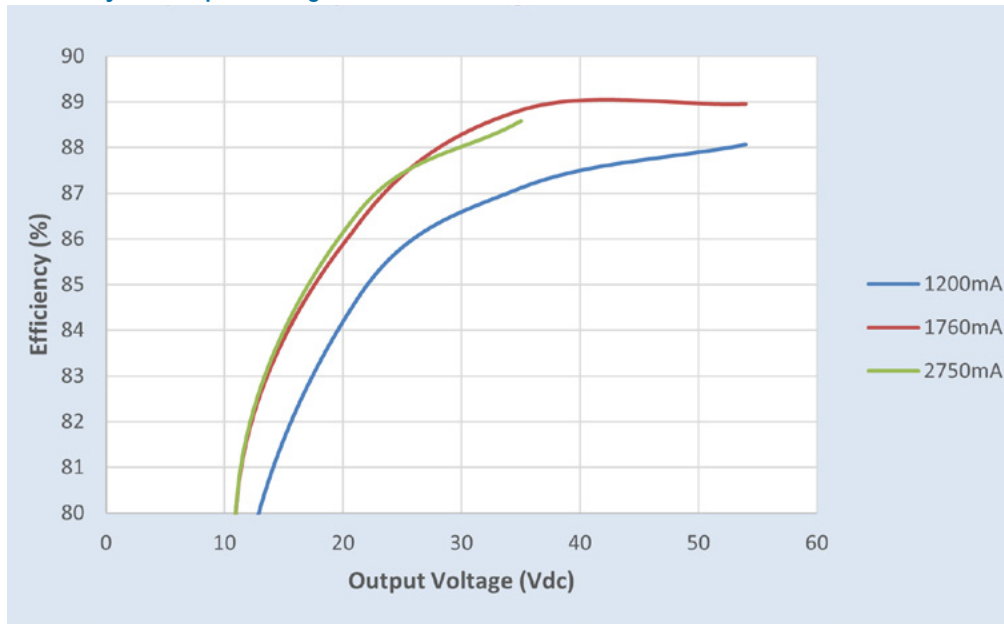
Xitanium XI190C275V054BSG2

190W 2.75A 0-10V Dimming with SimpleSet

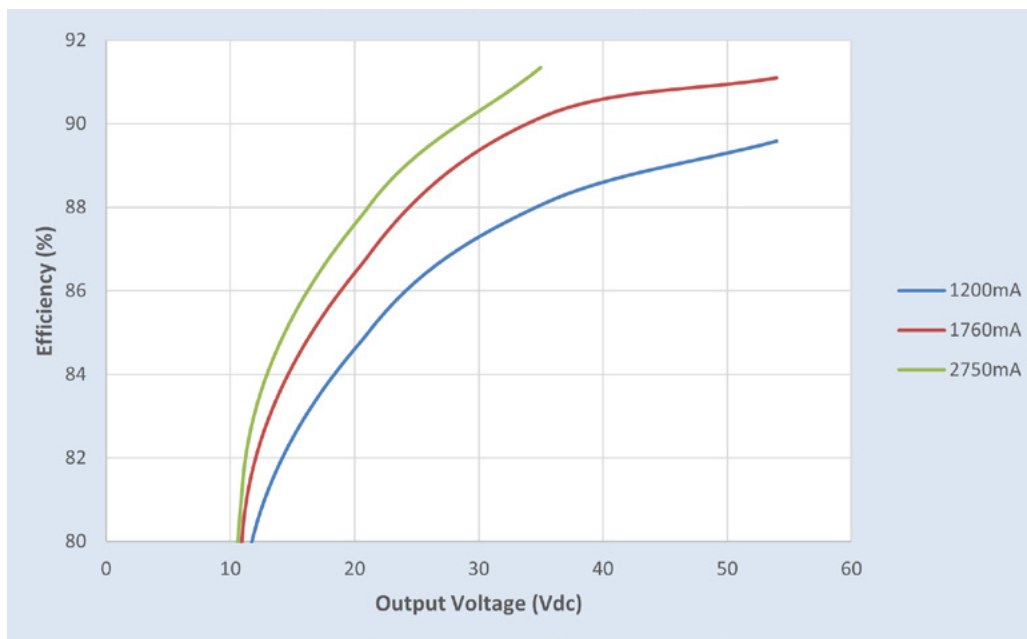
Performance Characteristics

Based on measurements on a typical sample at 75°C case. The accuracy of the measurements is within the tolerance of the measurement instruments.

Efficiency Vs. Output Voltage at 120Vac



Efficiency Vs. Output Voltage at 277Vac



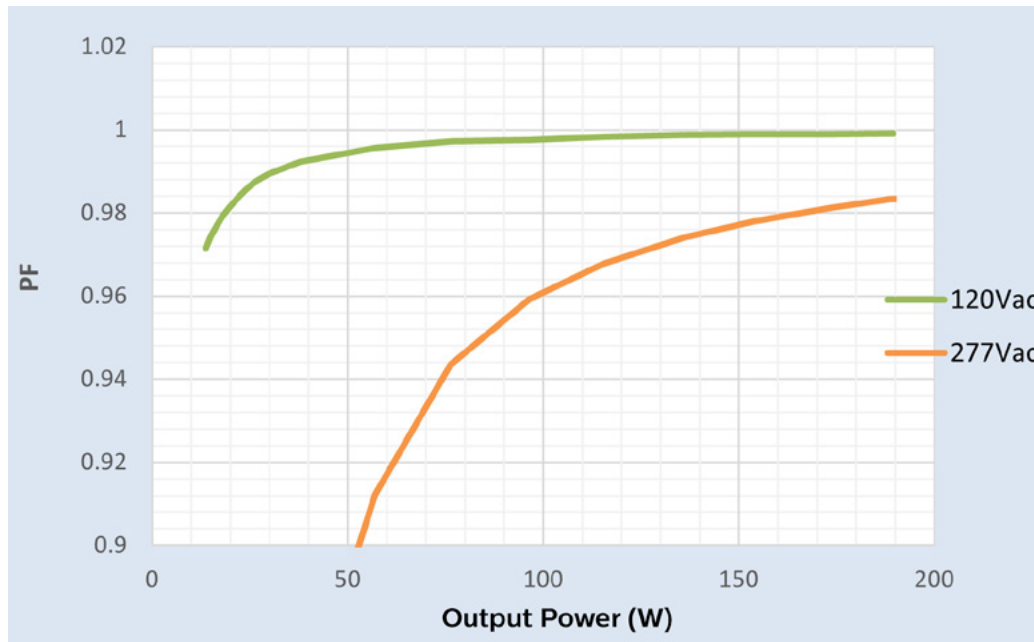
Xitanium XI190C275V054BSG2

190W 2.75A 0-10V Dimming with SimpleSet

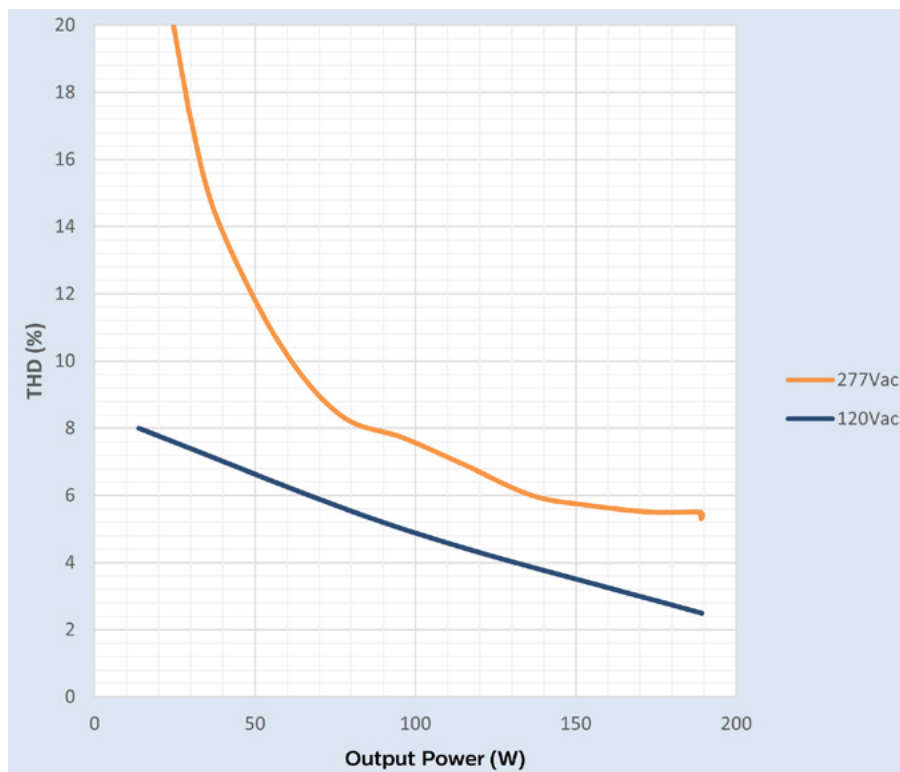
Performance Characteristics

Based on measurements on a typical sample at 75°C case. The accuracy of the measurements is within the tolerance of the measurement instruments.

Power Factor Vs. Total Output Power*



Total Harmonic Distortion (THD) Vs. Total Output Power*

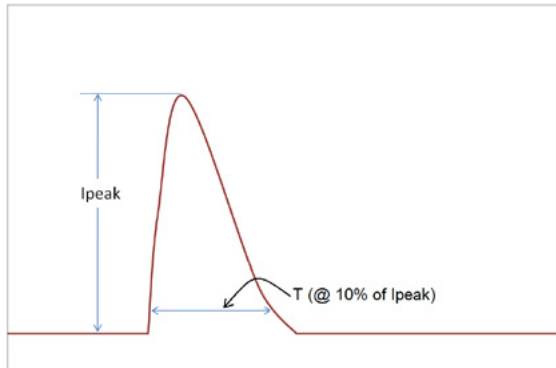


* Power Factor and Total Harmonic Distortion graphs are shown for combined output power of both channels.

Xitanium XI190C275V054BSG2

190W 2.75A 0-10V Dimming with SimpleSet

Inrush Current Info



V_{in}	I_{peak}	T (@ 10% of I_{peak})
120 Vrms	65A	208 μ S
277 Vrms	154A	192 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)
1.2/50 μ s Combination Wave (w/t 2 Ω)	6kV	6kV

Isolation

Isolation	Input	Output	0-10V	Enclosure
Input	NA	2xU+1kV	2.5kV	2xU+1kV
Output	2xU+1kV	NA	2.5kV	2xU+1kV
0-10V (Class 2)	2.5kV	2.5kV	NA	2.5kV
Enclosure	2xU+1kV	2xU+1kV	2.5kV	NA

U = Max. input voltage

The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract.



© 2024 Signify Holding. All rights reserved. The information provided herein is subject to change, without notice. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify.

Signify North America Corporation
400 Crossing Blvd, Suite 600
Bridgewater, NJ 08807
Telephone: 855-486-2216

Signify Canada Ltd.
281 Hillmount Road,
Markham, ON, Canada L6C 2S3
Telephone: 800-668-9008

All trademarks are owned by Signify Holding or their respective owners.