



Input Volt. (Vac)	Output Power (W)	Output Voltage Range (V)	Output Current (A)	Efficiency@ Max. Load and 70°C Case (%)	Max. Case Temp. (°C)	Input Current (Arms)	Max. Input Power (W)	Inrush Current (Apk/50%-µs)	THD @ Max. Load (%)	Power Factor @ Max. Load	Surge Protection Common/Diff (KV)	Weight (Lbs/kgs)	Envir. Protection Rating	Driver Type
120	25	18-36 Class 2 Output	0.1-1.0	84	Life - 80°C UL - 90°C	0.27	30	29.3 / 96	<10%	>0.95	> 2.5	0.41/0.19	UL damp & dry	Constant Current
277				86		0.12		47.1 / 93	<15%					

Features

- UL Class 2 output with Adjustable Output Current (AOC)
- SmartMate style housing with 90°C Tcase max
- Compatible with Advance Fortimo Down Light Modules

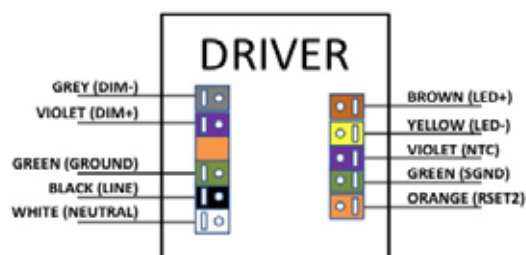
Benefits

- Flexibility via adjustable drive current
- Simple integration into existing style fixtures
- System solution that helps optimizes performance and eases design-in

Dimensions

	in.	mm
Case Length	4.20	106.7
Case Width	2.36	60
Case Height	0.95	24
Mounting Length	4.60	116.8
Overall Length	4.96	126

Wire Diagram



Warning

Install in accordance with National and Local Electrical Codes. The field-wiring leads or push-in terminals shall be enclosed. Use 18AWG Solid Copper Wire, Rated $\geq 300V/90C$. Strip wire to 3/8". For Fortimo systems connect pink wire to Violet (NTC).

Dimming	Dimming Range	Minimum Output Current (A)	Other Comments
0-10V Analog Class 2 Wiring	5% ~ 100%	0.015	Dimming source current: 150 µA

Xitanium XI025C100V036DNM1M

25W 0.1-1.0A 36V 0-10V

Electrical Specifications

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

Ordering Information	
Order code	XI025C100V036DNM1M
Full product code	XI025C100V036DNM1M
Full product name	Xitanium 25W 0.1-1.0A 36V 0-10V
Input Information	
Line Voltage	120-277Vac_rms
Line Current	0.27A @ 120V, 0.12A @ 277V
Line Frequency	50/60Hz
Min. Mains voltage operational	108 V [min]
Max. Mains voltage operational	305V [max]
THD (total)	Refer to graph
Power Factor (PF)	Refer to graph
Inrush Current	Per NEMA 410
Lightning Surge Protection	Refer to table below
Output Information	
Output voltage range	18V to 36Vdc
Maximum open circuit voltage	42V
Output Current Ripple (ripple = peak to average / average)	15% max @ max Iout Low frequency (≤ 120 Hz) content <5%
Protections	Short Circuit and Open Circuit Protection for LED + and LED--
Ambient Temp Range	-20°C to +50°C
Max Case Temperature (Tcase)	80°C for Life & 90°C for UL Safety
Features	
Interfaces	0-10V Dimming, AOC, MTP
AOC (Adjustable Output Current)	100mA to 1000mA via external resistor (refer to graph below & notes in the Application section)
MTP (Module Temperature Protection)	Current cutback to 10% (Refer to specifications below)
0-10V Dimming Specifications	150 μ A source current from driver, See dim curve for detail.
Environment and Approbation	
Environmental Protection Rating	UL damp and dry
Agency Approbations	UL8750, UL1310, UL935, cUL
Electromagnetic Compliance	FCC Title 47 Part 15 Class A
Isolation	Refer to table
Audible noise	<24dB Class A

Xitanium XI025C100V036DNM1M

25W 0.1-1.0A 36V 0-10V

Electrical Specifications

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

0-10V Dimming Curve:

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

LED Current Tolerance at 1000mA ≤ 5% over temperature and component variations and ≤ 10% at any dim level.

Minimum Dim Level: 5% of Iout (minimum 15mA)

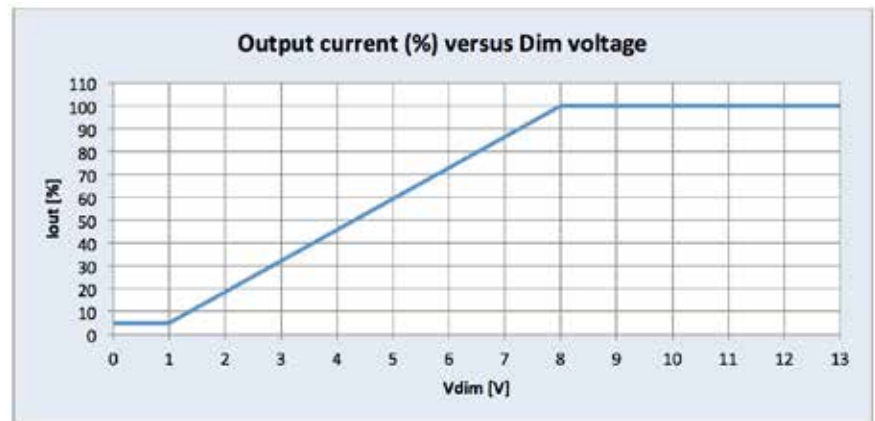
Maximum output voltage on the dimming wires: 13V

The dimming lead leakage current is 0.01mA. The maximum number of drivers that can be connected in parallel to one dimming control circuit is based on this dimming lead leakage current and the calculation is described in the corresponding Design-in Guide.

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 - SRI200ZTUNV

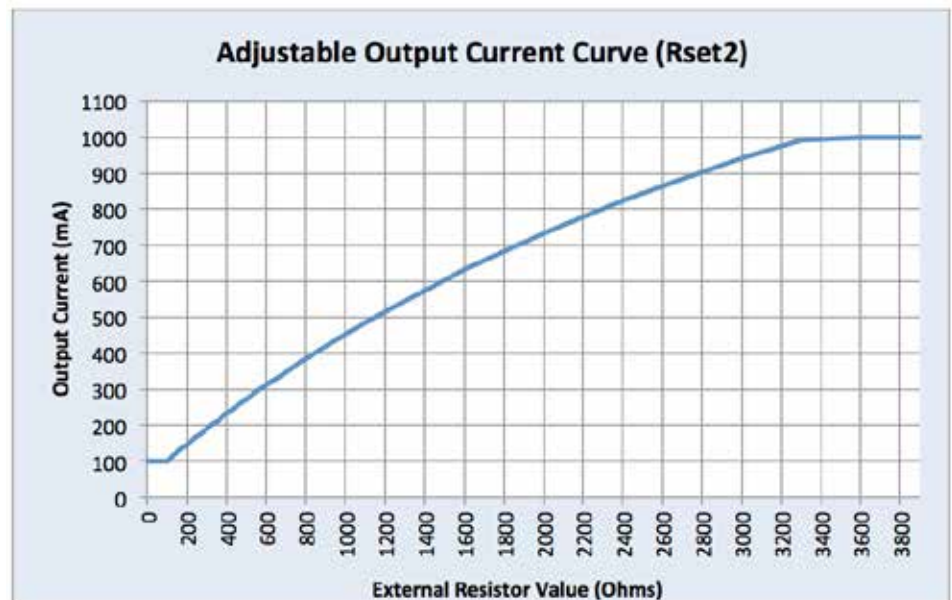
For compatibility with other dimmers please contact the dimmer manufacturer.



AOC (Adjustable Output Current) Settings:

LED Current Tolerance over temperature and component variations for AOC ≤ 10% at any level.

Rset (Ohms)	Current (mA)
100	100
120	111
150	124.5
180	138.2
220	154.6
270	176.4
330	203.7
390	228.3
470	261.0
560	296.5
680	340.2
820	392.1
1000	452.1
1200	514.9
1500	602.3
1800	684.2
2200	779.7
2700	883.5
3300	992.7
3900	1000



Driver will default to 1000mA when Rset is left open.

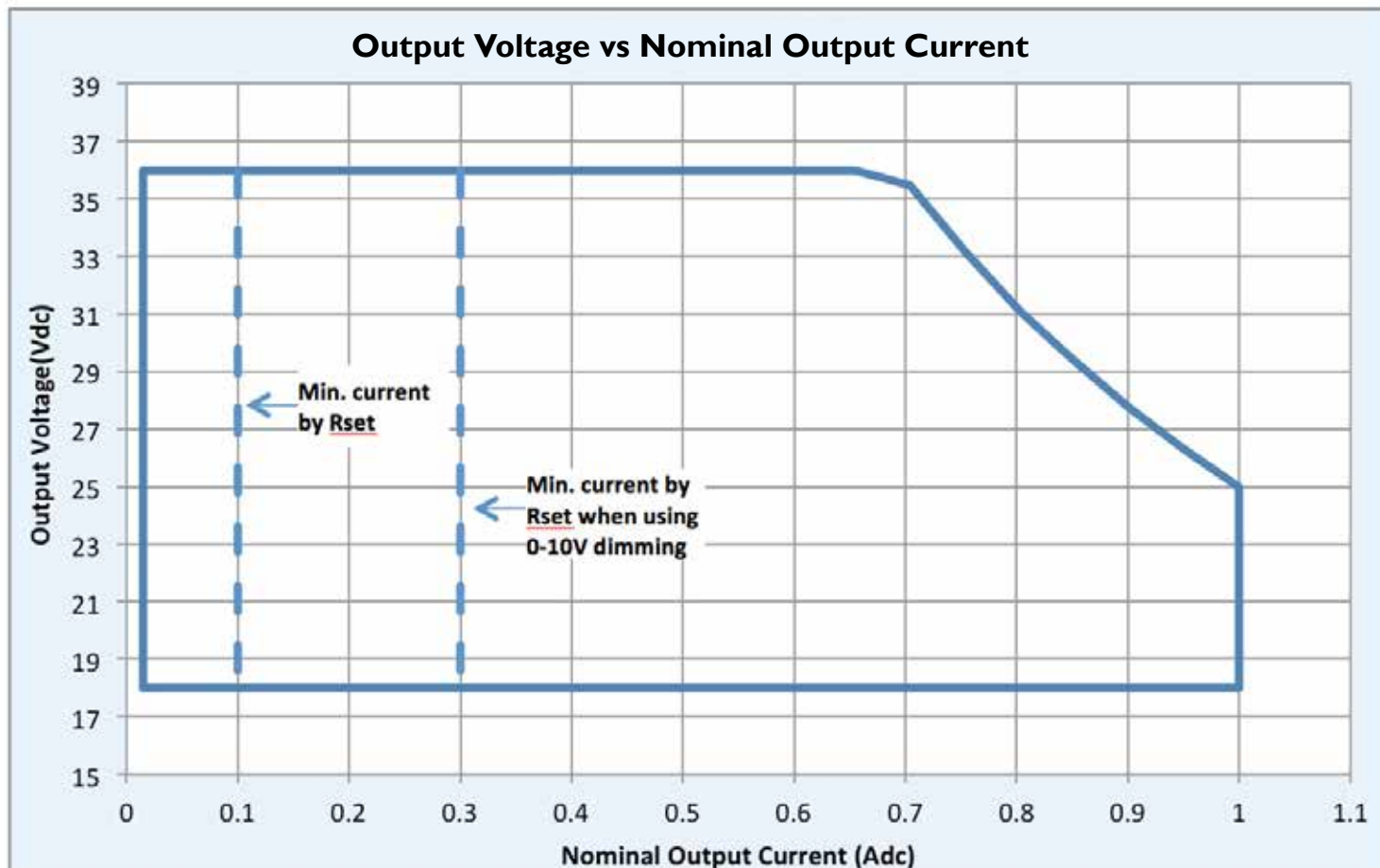
Xitanium XI025C100V036DNM1M

25W 0.1-1.0A 36V 0-10V

Electrical Specifications

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

Operating Window:



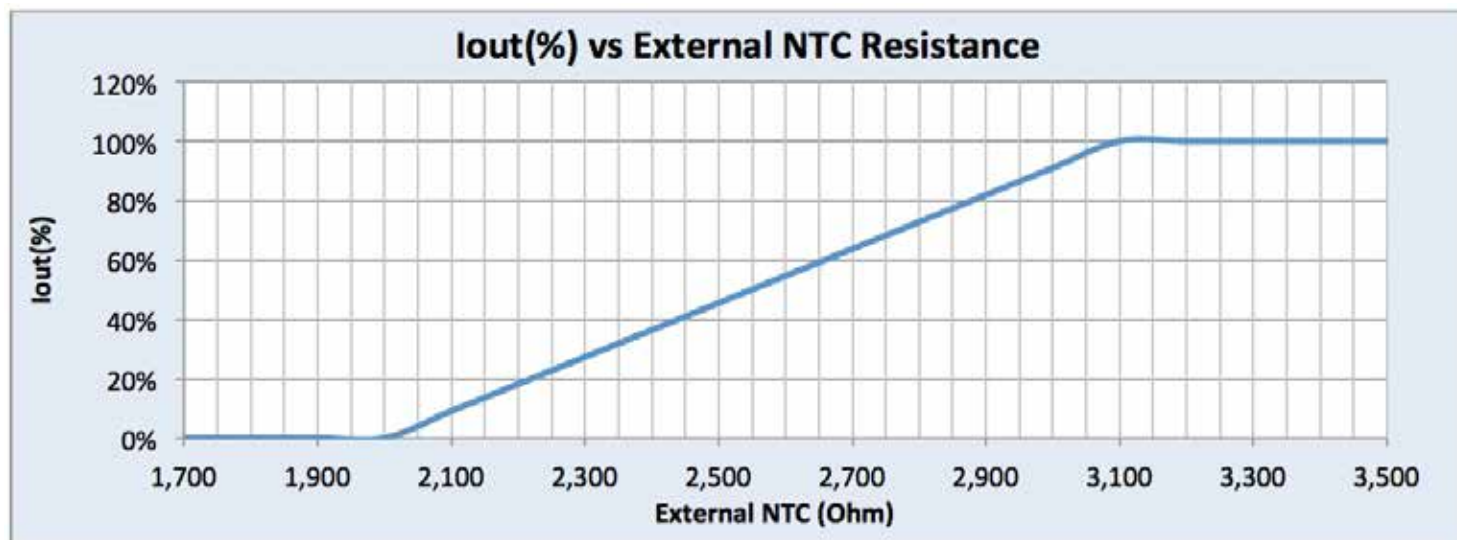
Xitanium XI025C100V036DNM1M

25W 0.1–1.0A 36V 0–10V

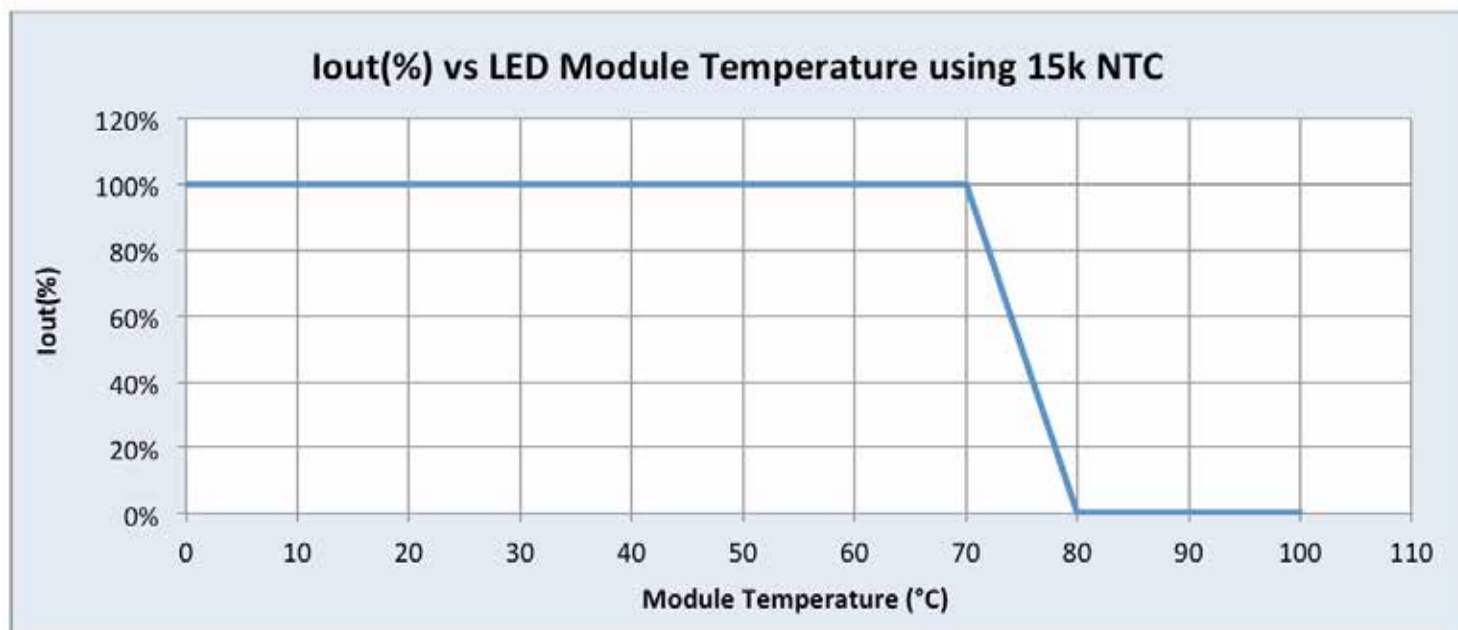
Electrical Specifications

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

Module Temperature Protection:



For example: Using NTC Vishay 15kOhm $\pm$ 2% NTC, B25/85=3700 (2381 615 54153), the output current Vs module temperature behavior is as follows.



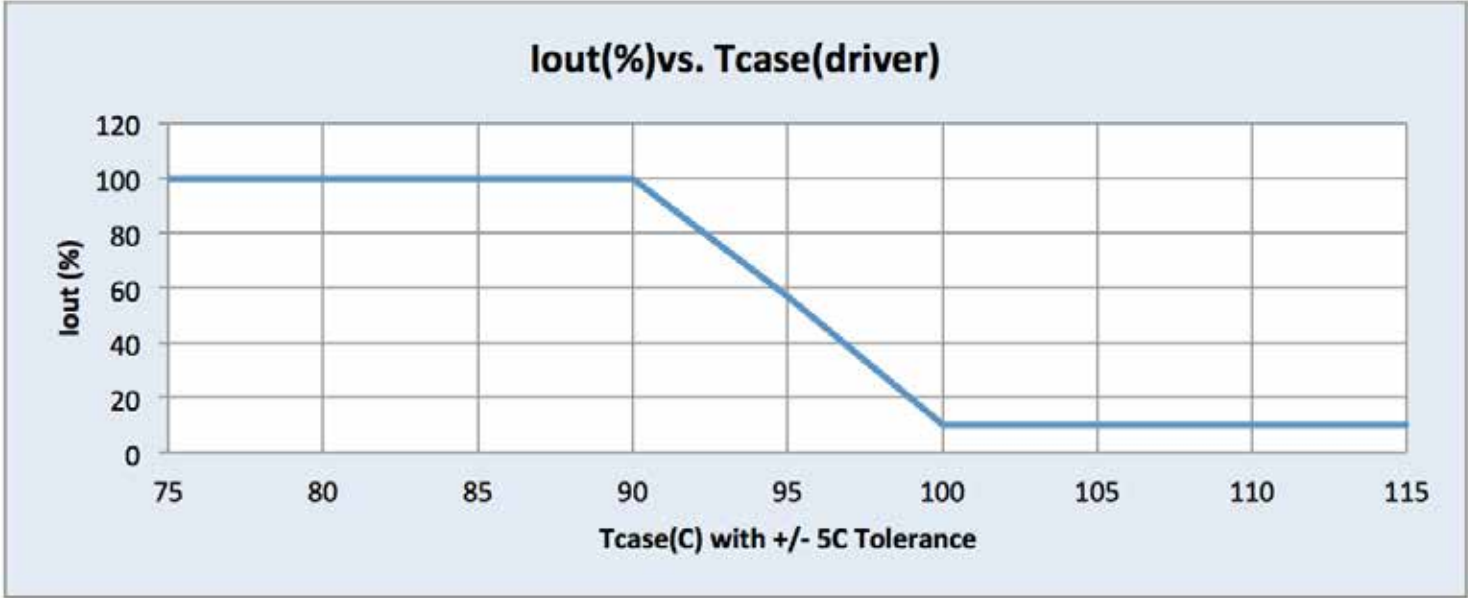
Xitanium XI025C100V036DNM1M

25W 0.1-1.0A 36V 0-10V

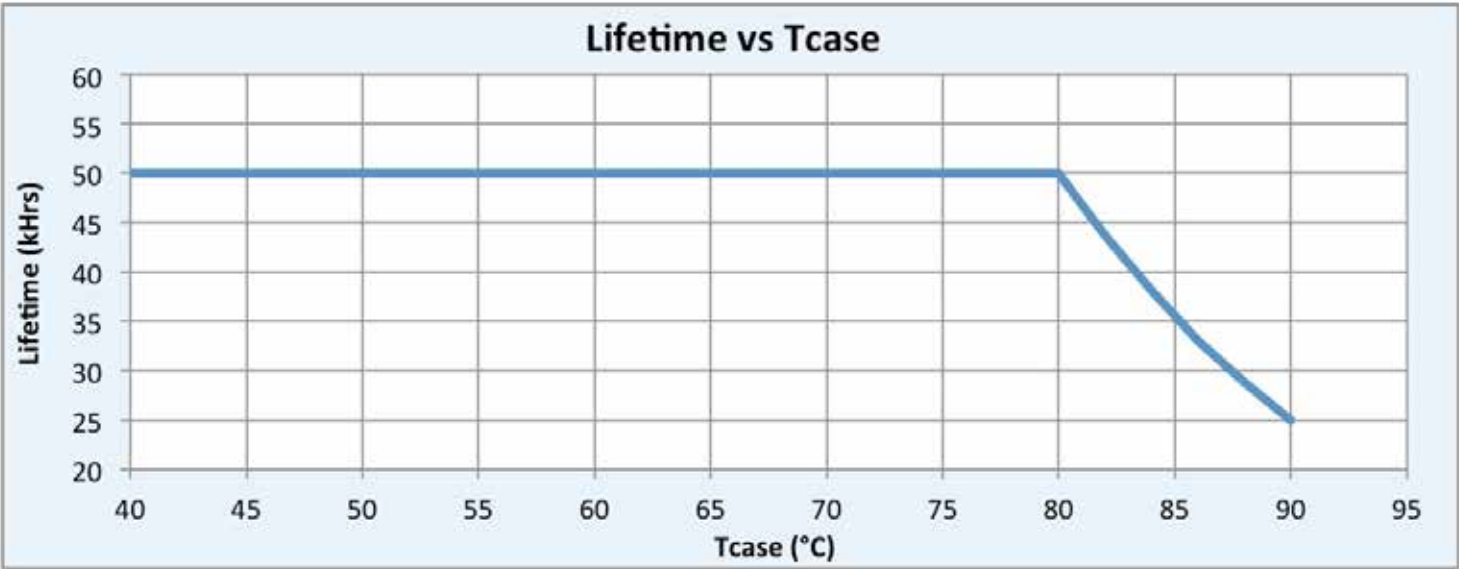
Electrical Specifications

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

Iout vs. Tcase of Driver:



Lifetime vs. Tcase of Driver:



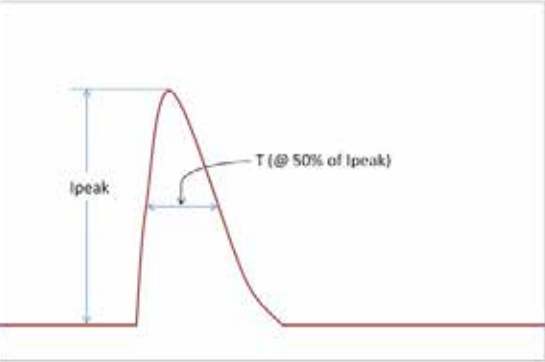
Xitanium XI025C100V036DNM1M

25W 0.1–1.0A 36V 0–10V

Electrical Specifications

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

Inrush Current Info:



Vin	Ipeak	T (@ 50% of Ipeak)
120 Vrms	29.3 A	96 μ s
277 Vrms	47.1A	93 μ s

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

Lightning Surge Info:

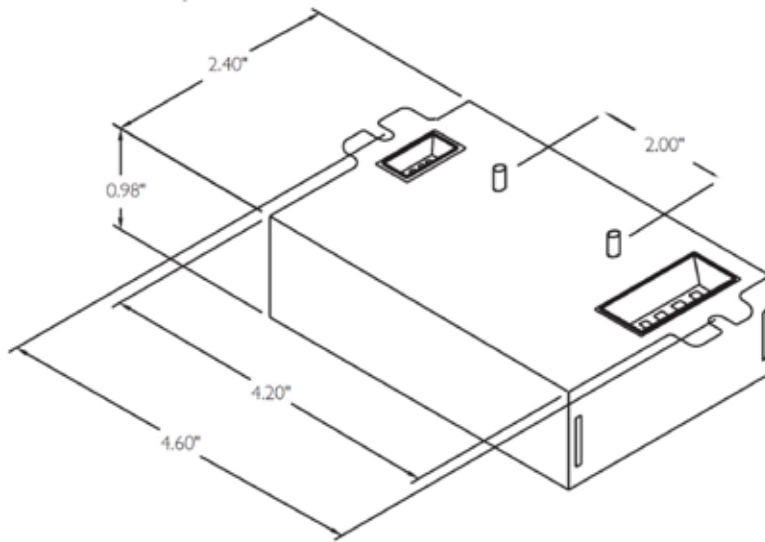
ANSI Surge Type	Differential Mode (L-N)	Common Mode (L-G, N-G, L&N-G)
100 kHz Ring Wave (w/t 30 Ω)	6kV	4kV
1.2/50 μ s - 8/20 μ s Combination Wave (w/t 2 Ω)	2kV	2kV

Xitanium XI025C100V036DNM1M

25W 0.1-1.0A 36V 0-10V

Mechanical Specifications

Mechanical Drawing:

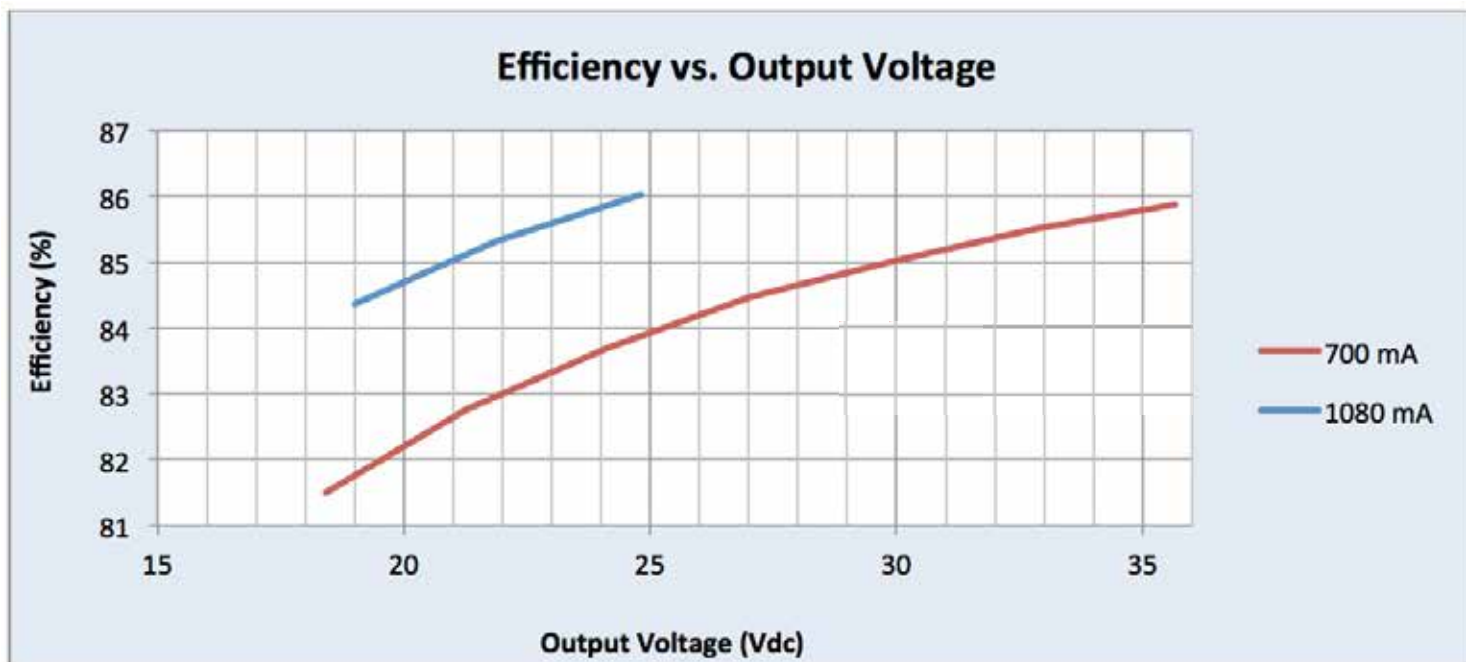
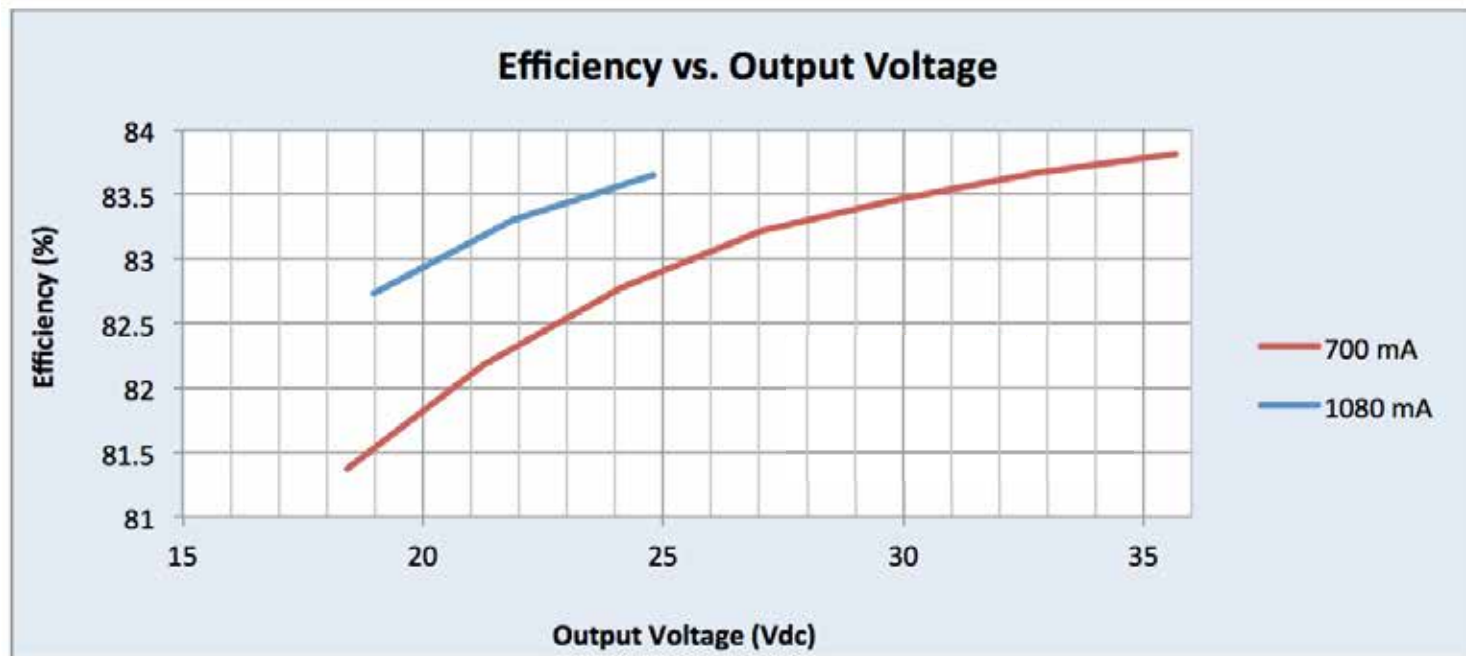


Xitanium XI025C100V036DNM1M

25W 0.1–1.0A 36V 0–10V

Performance Characteristics

Based on measurements on a typical sample. 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.



Xitanium XI025C100V036DNM1M

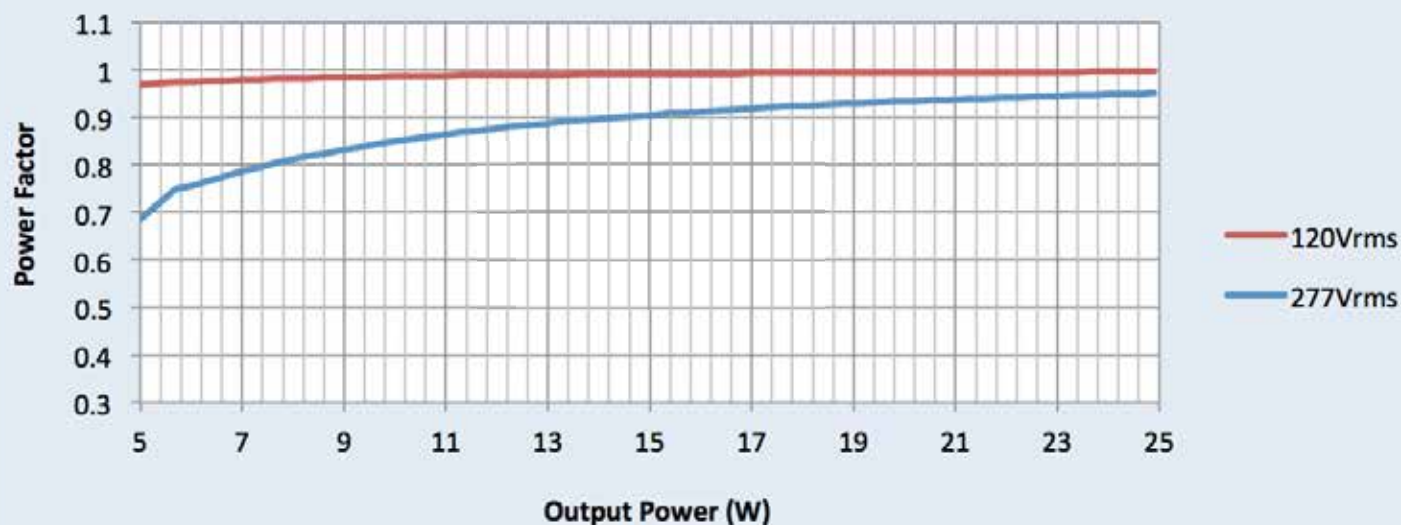
25W 0.1–1.0A 36V 0–10V

Performance Characteristics

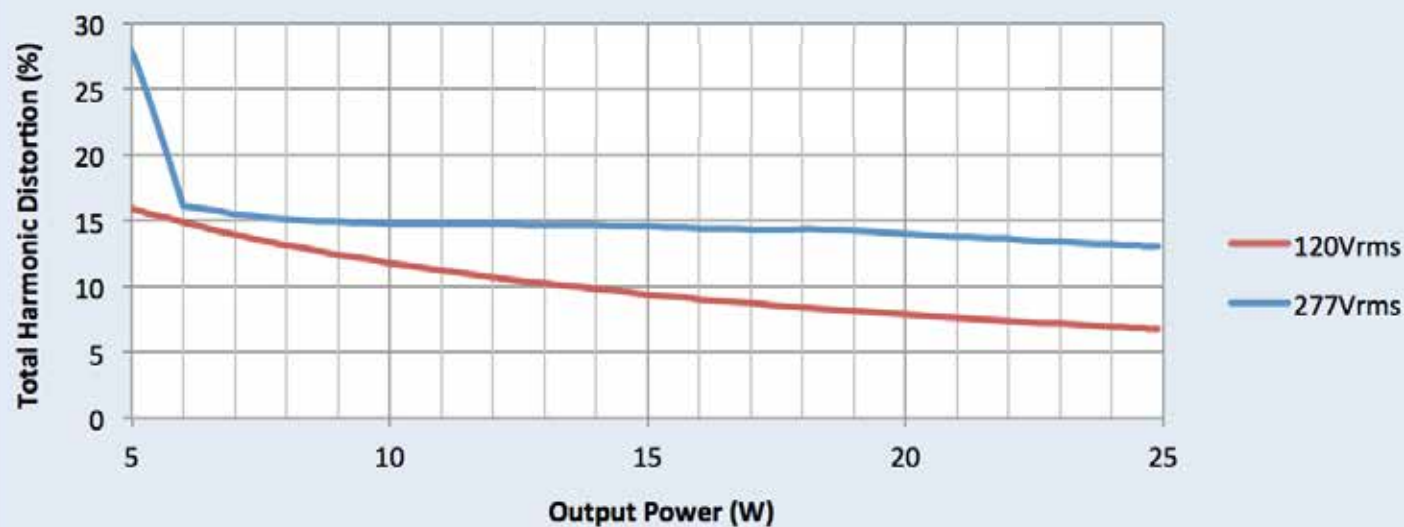
Based on measurements on a typical sample. The accuracy of the measurements is within the tolerance of the measurement instruments.

The graphs are meant to be a guideline and not a specification.

Power Factor vs. Output Power



Total Harmonic Distortion vs. Output Power



Xitanium XI025C100V036DNM1M

25W 0.1–1.0A 36V 0–10V

Application Notes

Isolation:

Isolation	Input	Output	0-10V (Class 2)	Enclosure
Input	Not applicable	2xU+1KV	2.5KVac	2xU+1KV
Output	2xU+1KV	Not applicable	Non-isolated	500V
0-10V (Class 2)	2.5KVac	Non-isolated	Not applicable	500V
Enclosure	2xU+1KV	500V	500V	Not applicable

UL Conditions of Acceptability:

Please contact your sales representative for a copy of the latest UL Conditions Of Acceptability (COA).

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



© 2022 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.