

PHILIPS

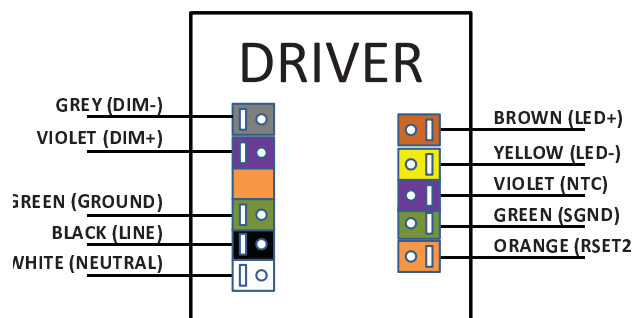
Product Overview

XI025C100V036DNM1M

Brand Name	XITANIUM
Description	XITANIUM 25W 0.3-1.0A 36V 0-10V
Input Voltage	120 ~ 277V
Input Freq.	50/60Hz
RoHS	Yes
Status	Preliminary

Input Voltage (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
120	25	18 - 36	0.3 - 1.0	84	Life - 80°C UL - 90°C	0.27	30	29.3 / 96	<10%	>0.95	2/2	0.41 / 0.19	UL damp and dry
277				86		0.12		47.1 / 93	<15%				

Wire Diagram



Product Data:

Install in accordance with National and Local Electrical Codes.

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

Enclosure



	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

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Tel: 800-322-2086 · Fax: 888-423-1882 · www.philips.com/advance

Customer Support/Technical Service: 800-372-3331 · OEM Support: 866-915-5886





Electrical Specifications

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

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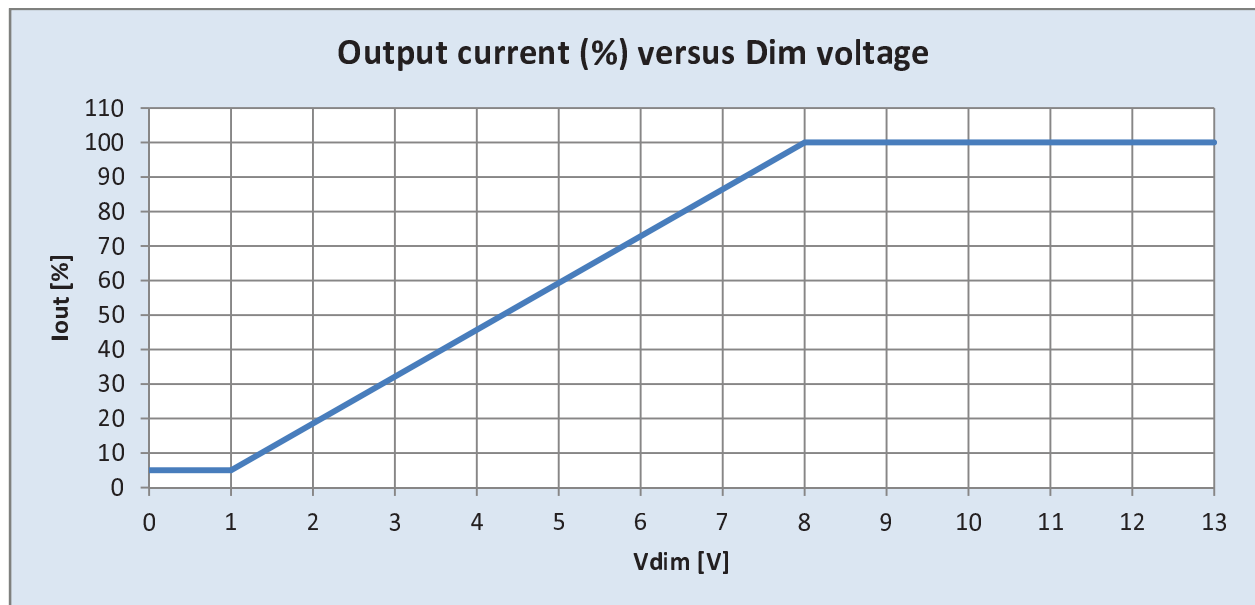
0-10V Dimming Curve:

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



Approved Dimmer List

Manufacturer	Manufacturer Part Number
T.B.D	T.B.D

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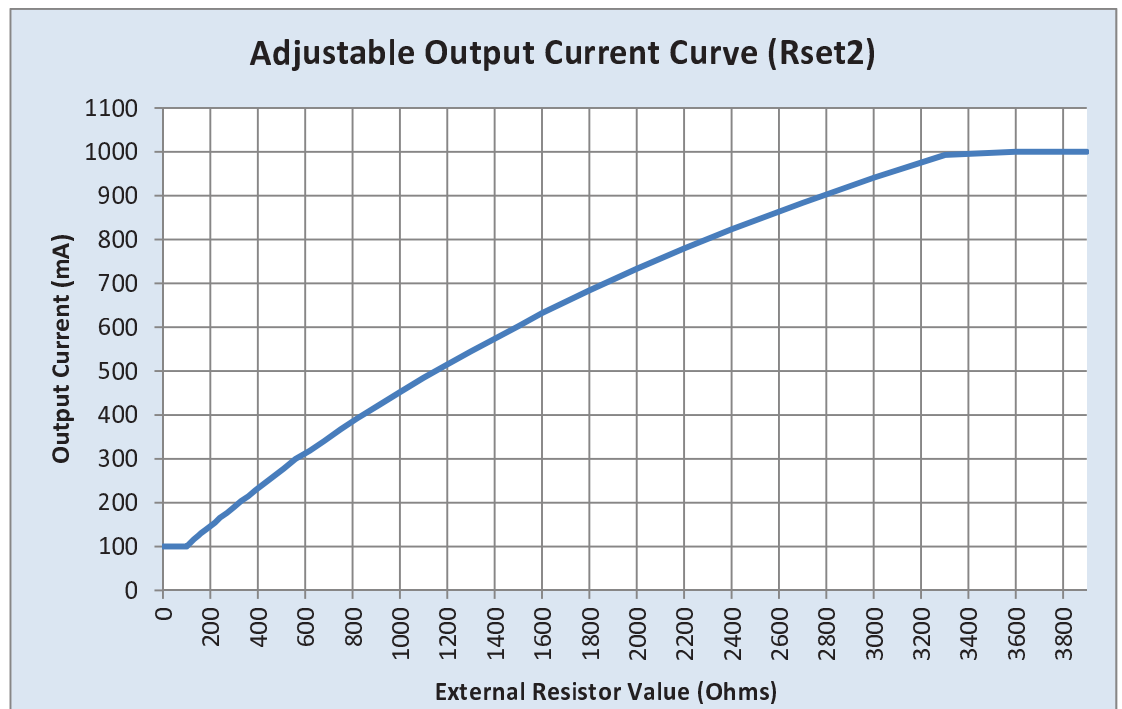
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AOC (Adjustable Output Current) Settings:

LED Current Tolerance over temperature and component variations for AOC $\leq 10\%$ 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 700mA when Rset is left open.

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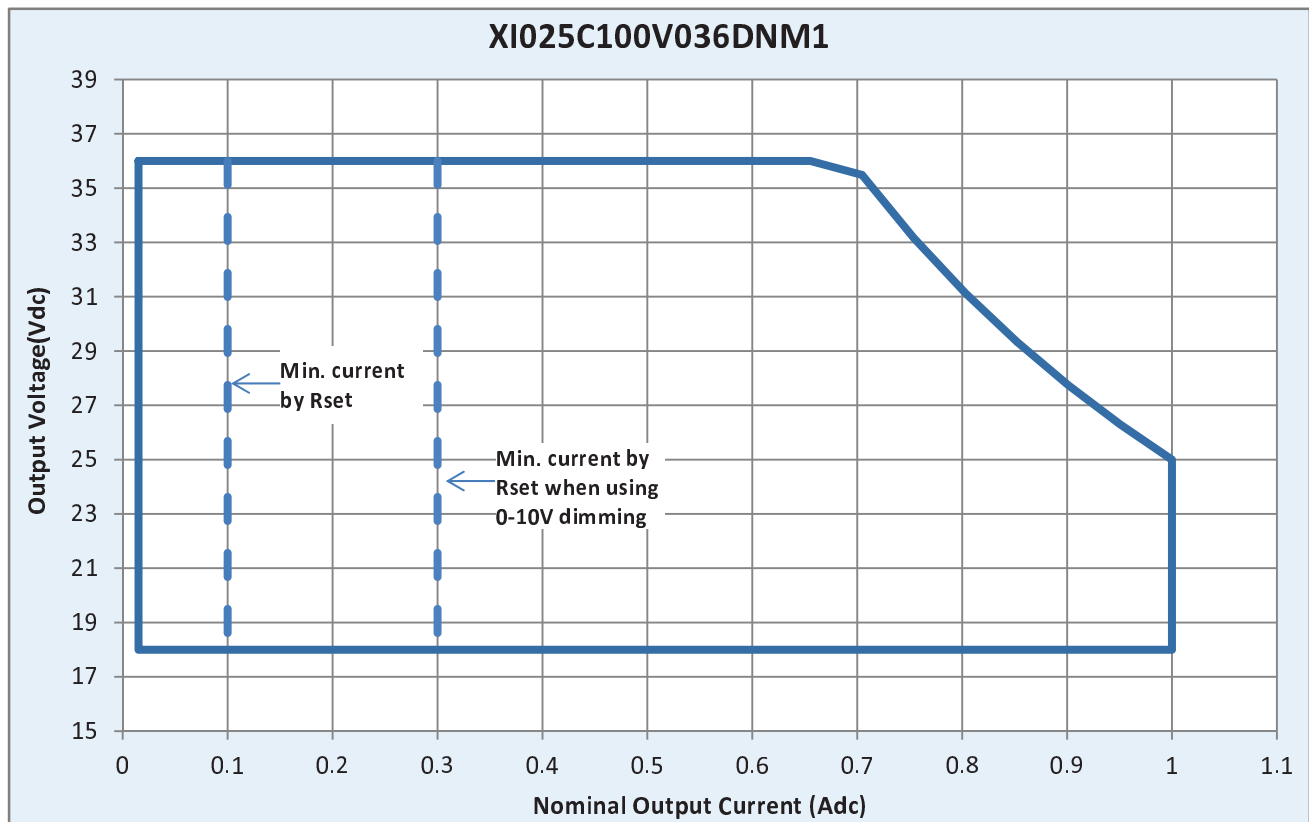
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Operating Window:



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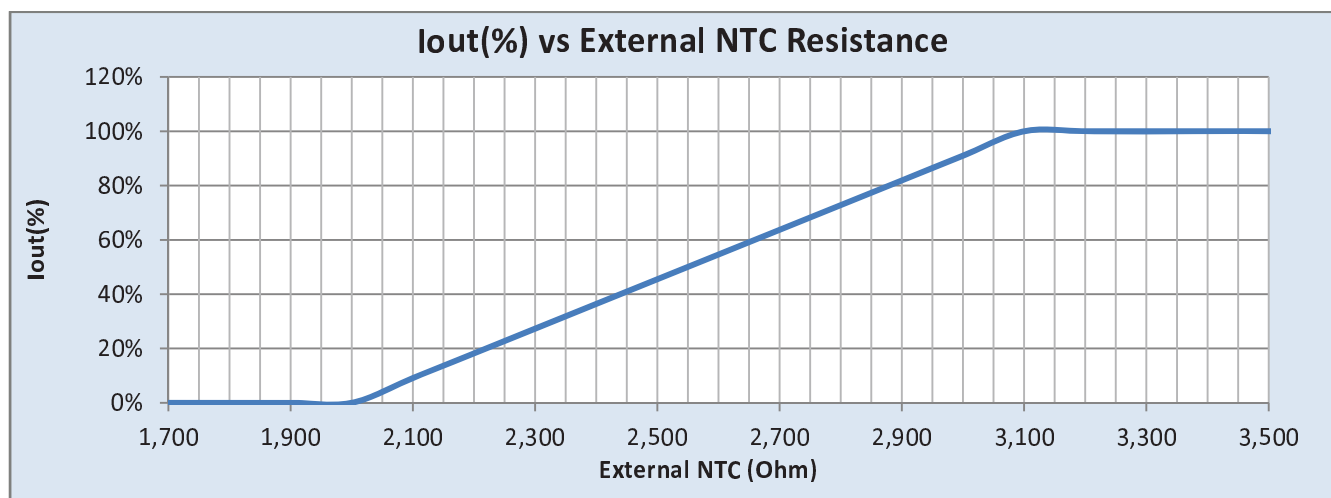
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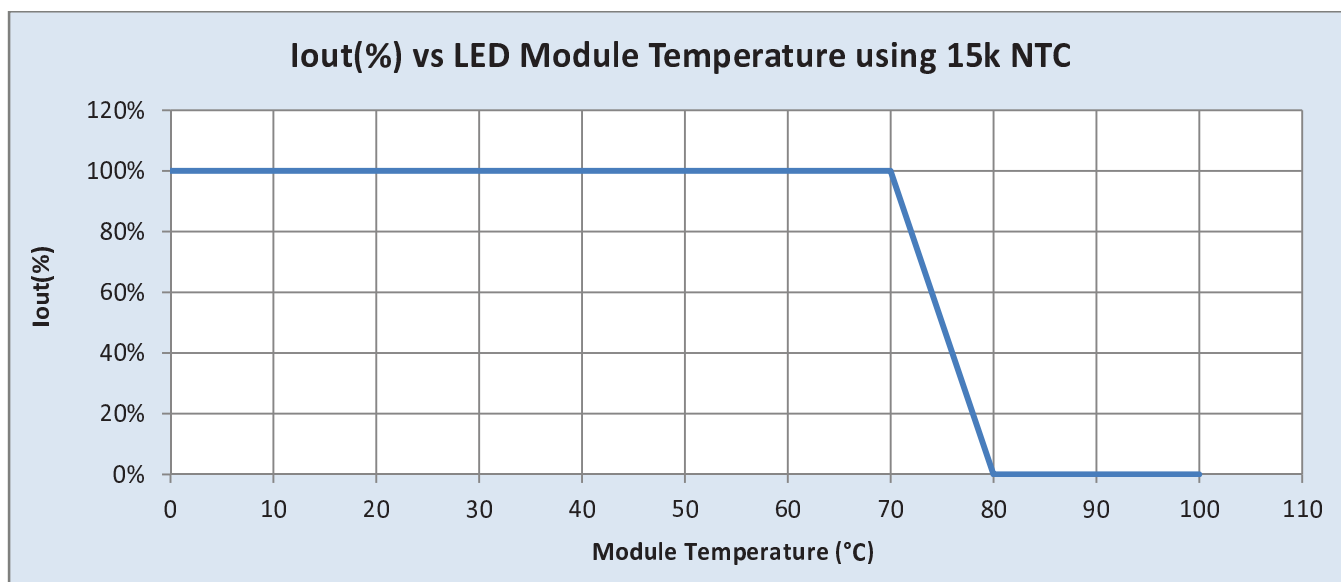
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Module Temperature Protection:



For example: Using NTC Vishay 15kOhm $\pm$ 2% NTC, B25/85=3700 (238I 615 54I53), the output current Vs module temperature behavior is as follows.



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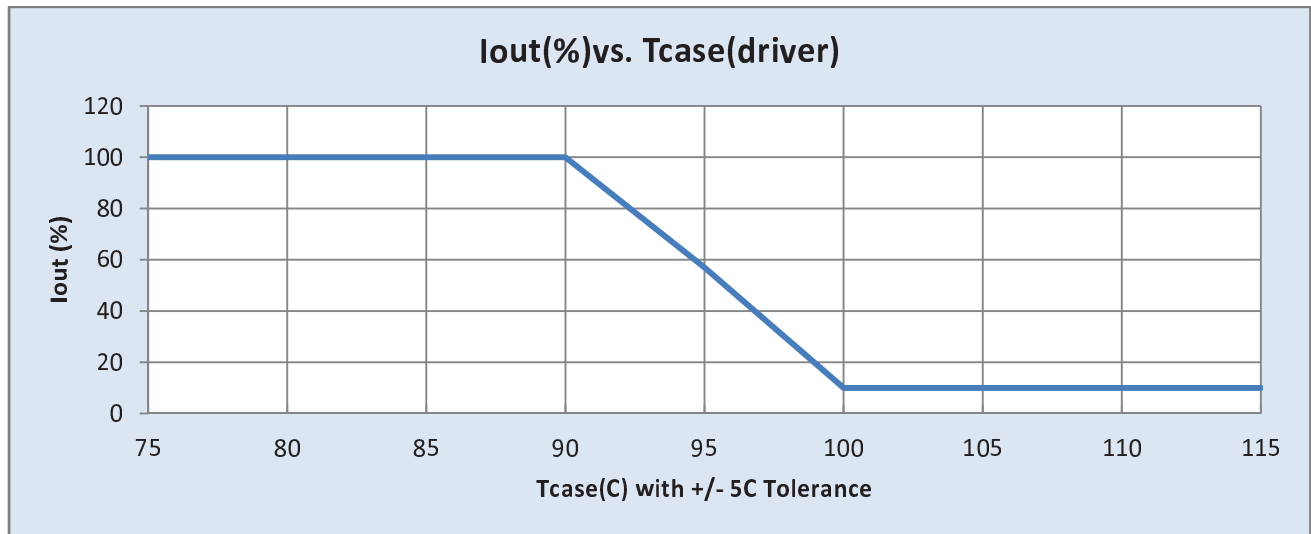


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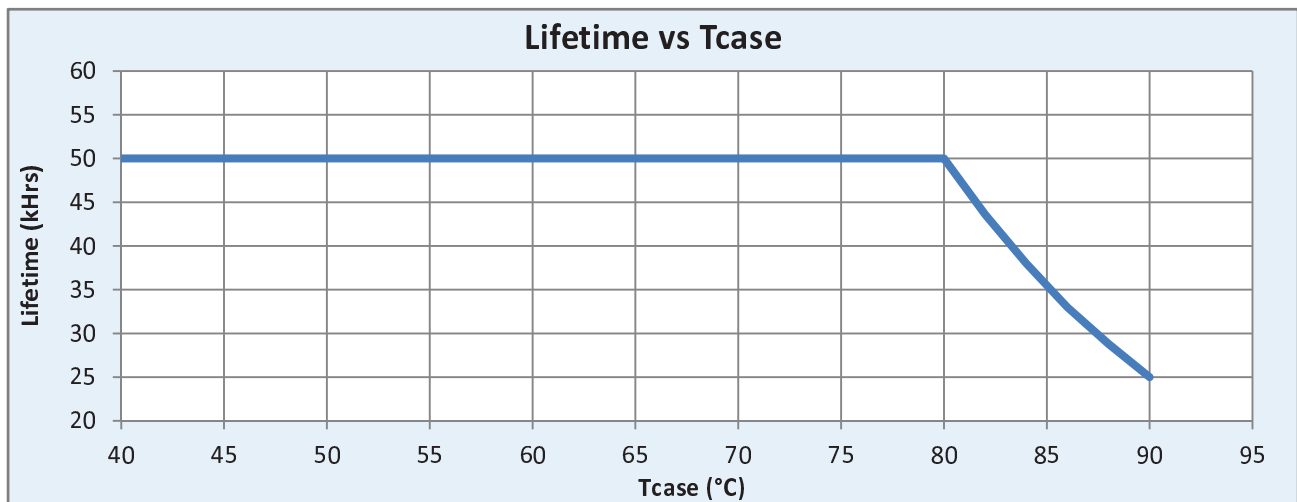
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Iout vs. Tcase of Driver:



Lifetime vs. Tcase of Driver:



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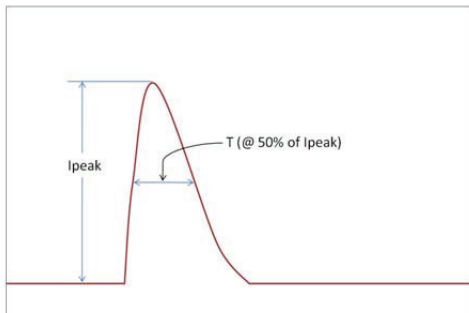
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Failure Rate based upon field call rate data:

- <0.01% per 1 kHr @ ≤ Tcase 75 C

Inrush Current Info:



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

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 30Ω)	6kV	4kV
1.2/50μs - 8/20μs Combination Wave (w/t 2Ω)	2kV	2kV

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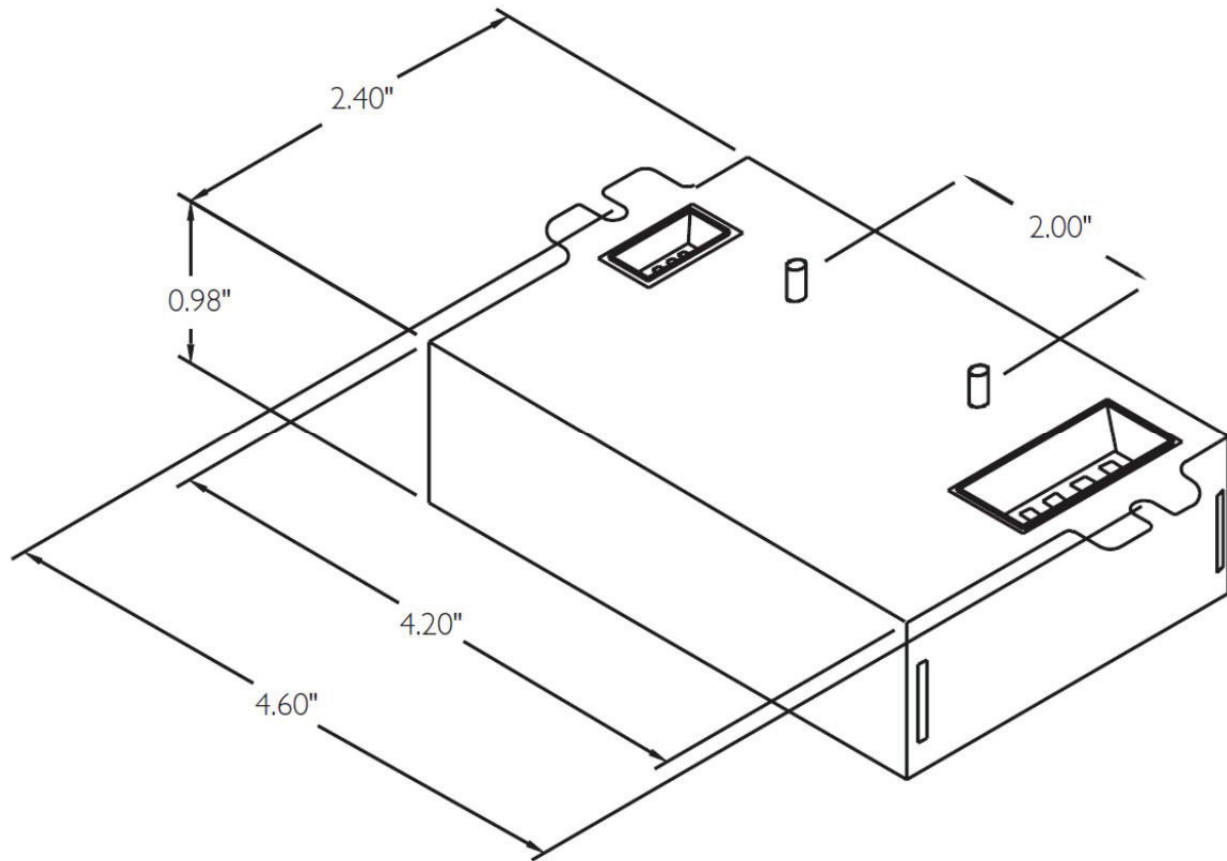
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Mechanical Specifications

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Mechanical Drawing:



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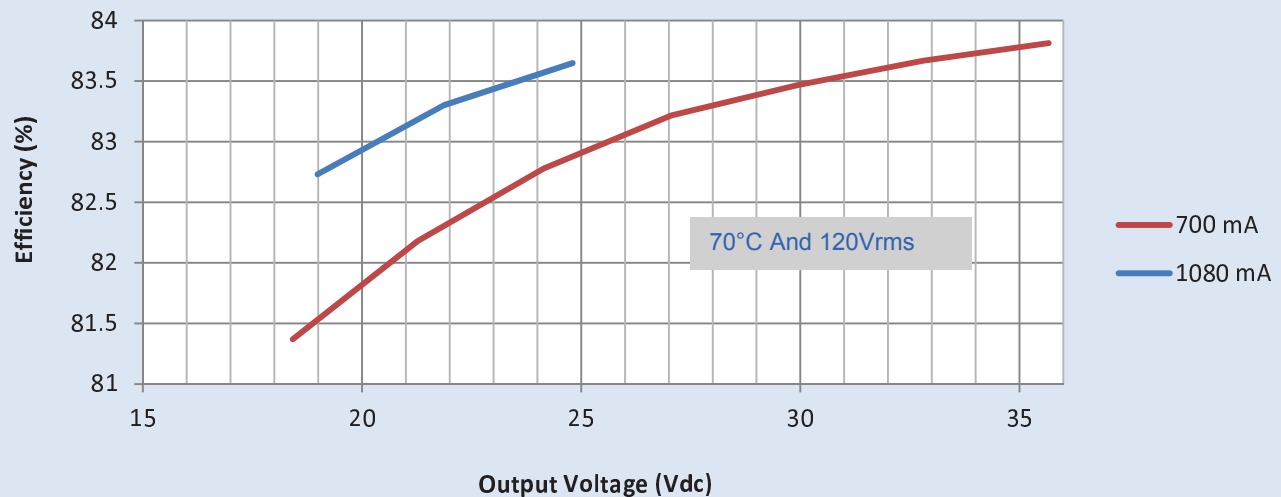
Performance Characteristics

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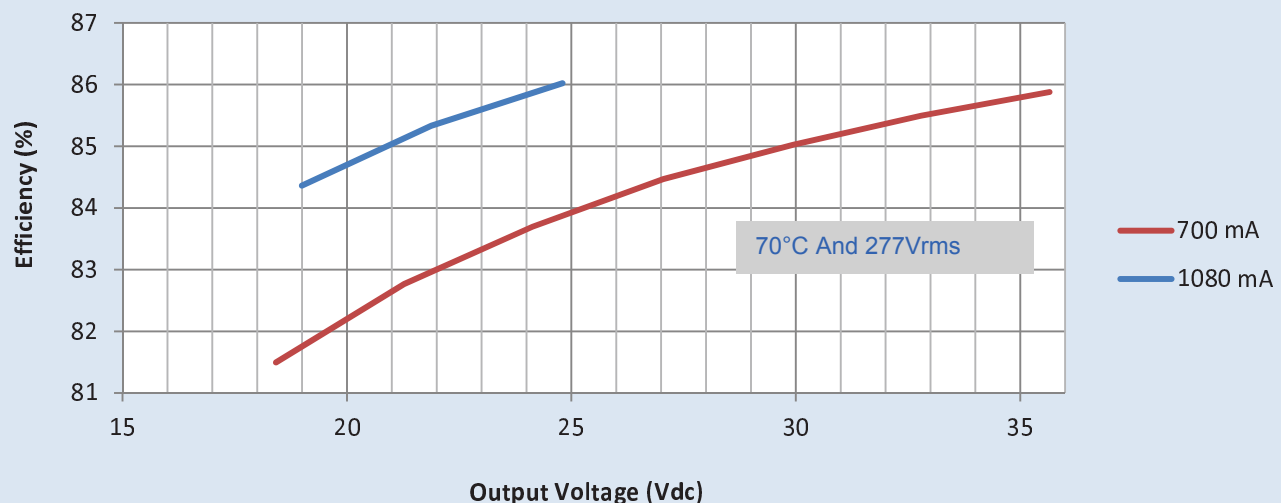
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Efficiency vs. Output Voltage



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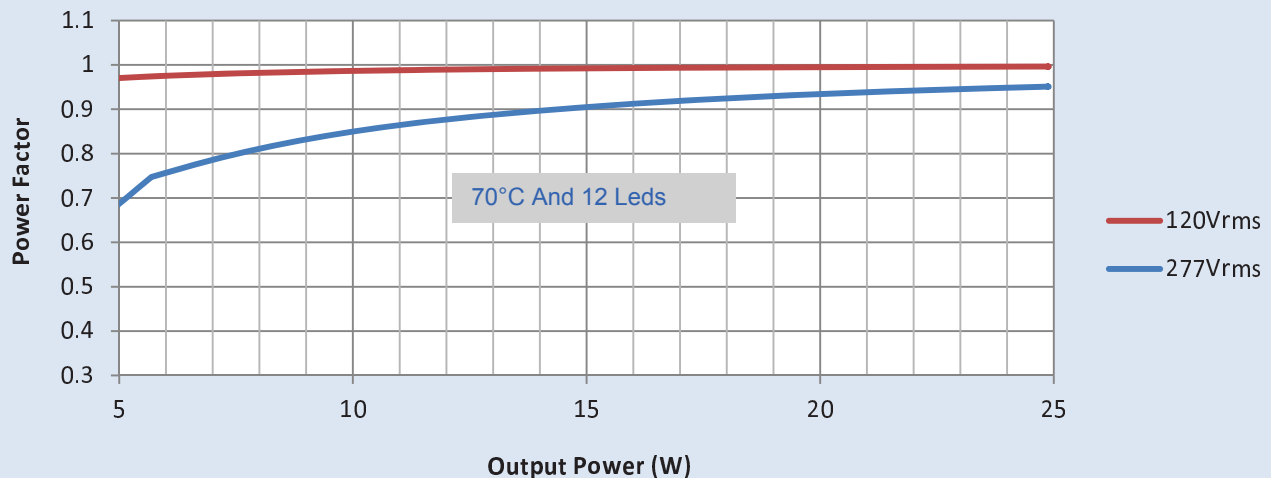
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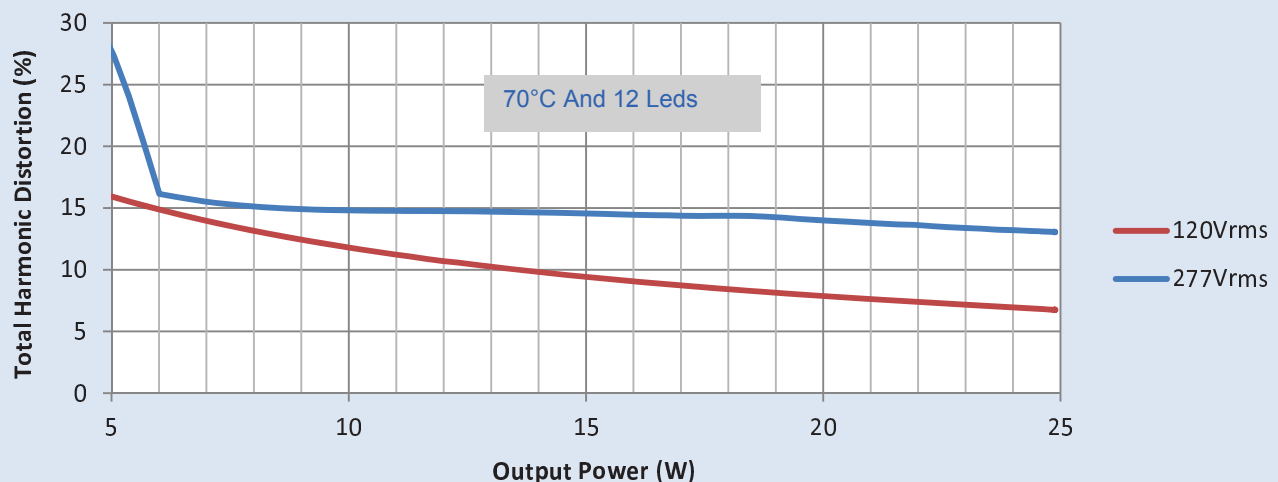
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Power Factor vs. Output Power



Total Harmonic Distortion vs. Output Power



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Application Notes:

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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 Philips representative for a copy of the latest UL Conditions Of Acceptability (COA).

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