

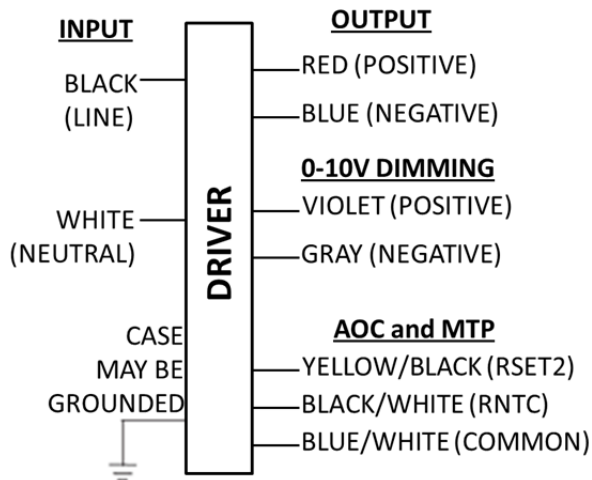
PHILIPS

Product Overview

929000708003	
Brand Name	XITANIUM
Description	Xitanium 75W 0.70A AOCM 0-10V GL-Y sXt
Input Voltage	120 ~ 230 ~ 277V
Input Frequency	50/60 Hz
RoHS	Yes
Status	Released

Output Power (W)	Output Voltage (V)	AOC Range (A)	Efficiency@ Max Load and 70°C TCase			Max Case Temp. (°C)	Input Current (Arms)			Max. Input Power (W)	Inrush Current (A _{ip} /50%-μs)			THD @ Max Load (%)	Power Factor @ Max Load	Surge Protection Common/Diff (KV)	Weight (Lbs/kgs)	Envir. Protection Rating
			120V	230V	277V		120 V	230 V	277V		120 Vin	230 Vin	277 Vin					
75	54 - 107	0.1 - 0.7	90.3	91.9	91.95	80 °C	0.7	0.37	0.3	85	35/120	70/120	85 /120	< 10.0 See graph	>0.95 See graph	4/4	1.53/ 0.7	UL damp and dry

Wire Diagram



Input and output use lead-wires.

Lead-wires are 18AWG 105C/600V solid copper.

Lead Length outside the enclosure: 270 mm (±30mm) on all wires

AOC: Adjustable Output Current
MTP: Module Temperature Protection

Dimming Method	Dimming Range	Minimum Output Current (A)	Other Comments
0-10V Analog Class 1 or 2 Wiring Shutdown= Yes (see specification)	10% ~ 100%	0.047	Dimming source current: 150 μA (±3%)

Enclosure



Enclosure (Nominal Dimensions)	inches (mm)
Case Length	5.52 (138)
Case Width	2.35 (59.1)
Case Height	1.52 (38)
Mounting Length	6.12 (153)
Mounting Width	1.7 (42.9)
Overall Length	6.72 (168)





Electrical Specifications

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

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Product Data:

Order code	929000708003M
Full product code	929000708003M
Full product name	Xitanium 75W 0.70A AOCM 0-10V GL-Y sXt
Line Voltage	120-277V
Line Current	0.7A @ 120V, 0.37 A @230V, 0.3A @ 277V
Line Frequency	50/60Hz
Min. Mains voltage operational	108 V [min]
Max. Mains voltage operational	305V [max]
THD total	Refer to graph
PF @ Max Load	Refer to graph
Input Over-voltage	Can survive input over-voltage stress of 320VAC for 48 hours and 350VAC for 2 hours
Inrush Current	NEMA 410 Maximum number of drivers on MCB-B type 16A = 16
Lightning Surge Protection	Per IEEE C62.41.2 2002 (4KV, 1.2/50 μ s.8/20 μ s Combination Wave with 2 Ohms source impedance, L-N, L-PE, N-PE)
Output voltage range	54V to 107Vdc
Maximum open circuit voltage	109V (\pm 5%)
Output Current Ripple (ripple = peak to peak / average)	30% max @ max Iout and max Vout Low frequency (\leq 120 Hz) content <5%
Protections	Short Circuit and Open Circuit Protection for LED + and LED-
Ambient Temp Range	-40C to +55C
Max Case Temperature (Tcase)	80C
Encapsulation	Yes, Fully potted
Interfaces	0-10V Dimming, AOC, MTP
AOC (Adjustable Output Current)	100mA to 700mA via external resistor (Refer to specification below)
MTP (Module Temperature Protection)	Current cutback to 10% (Refer to specifications below)
0-10V Dimming Specifications	150 μ A \pm 3% source current from driver, Vdim > 14.5V to shutdown driver, See dim curve for detail.
Standby power	< 0.4W [via shutdown feature of 0 -10V dim interface]
Environment Protection Rating	UL damp and dry
Life @ Tcase 70C	refer to graph below
Life @ Tcase 80C	refer to graph below
Agency Approbation	cRUs, CSA, CE, ENEC
Electromagnetic Compliance	CISPR 15 Ed 7.2, FCC Title 47 Part 15 Class A
Isolation	Refer to table



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0-10V Dimming Curve:

Dimming source current from the driver: 150µA (±3%) [@ 0 < Vdim < 8V]

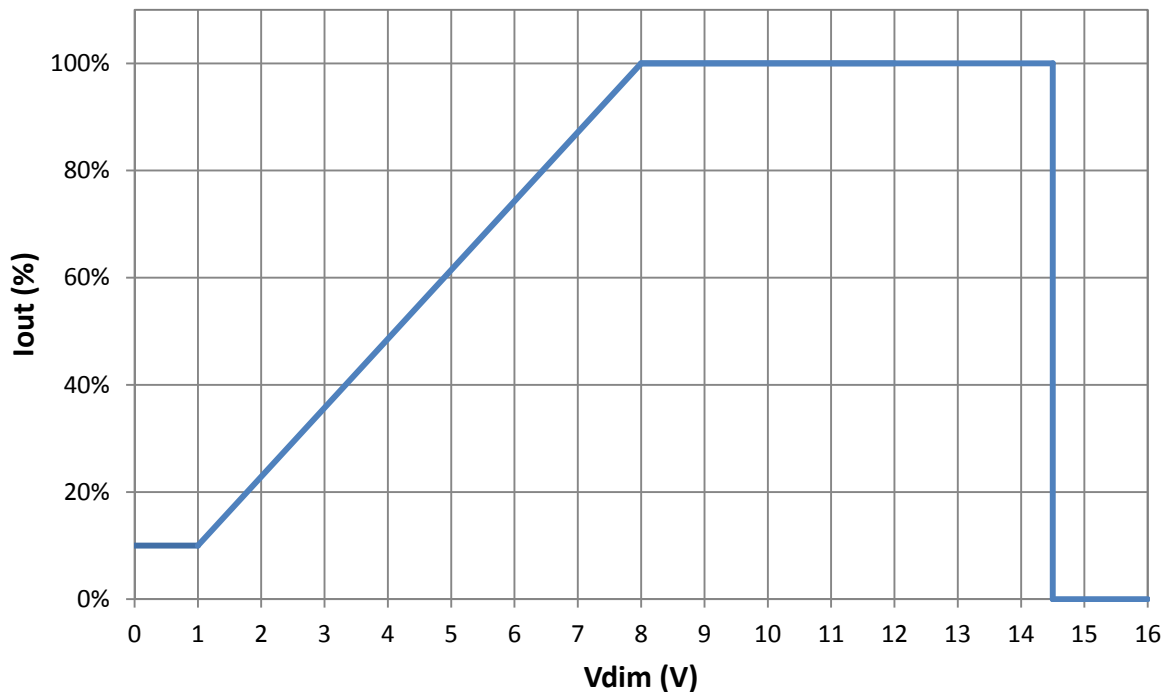
LED Current Tolerance at 700mA ≤ 5% over temperature and component variations and <10% at dim levels

Minimum Dim Level: 10% of Iout (minimum 47mA)

Guaranteed driver shutdown with Vdim > 14.5V

Guaranteed no driver shutdown with Vdim ≤ 12V

Output current(%) Vs Dim voltage at 70C Case Temperature and max LED load





Electrical Specifications

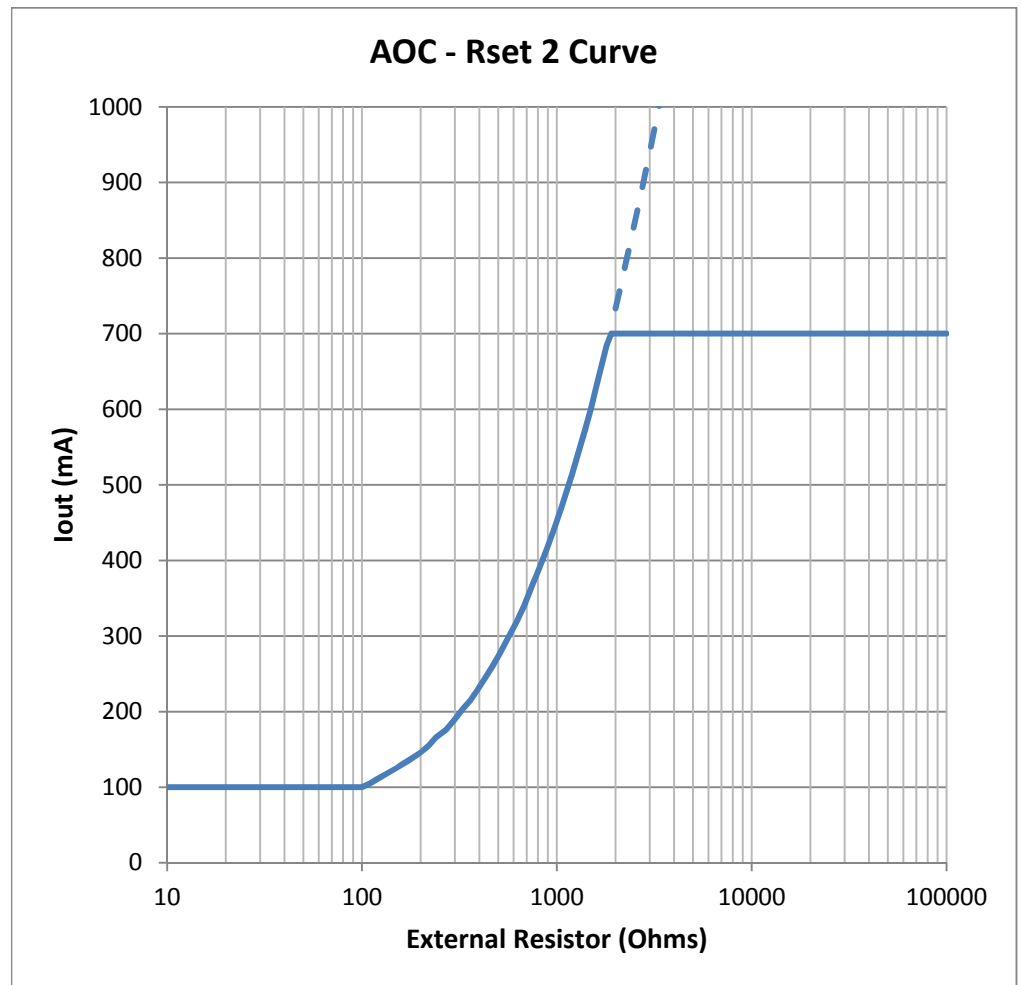
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AOC (Adjustable Output Current) Settings:

LED current tolerance over temperature and component variation for AOC ≤ 10% at dim levels.

Rset(Ohms)	Current (mA)
0	100
100	100
110	105
120	111
130	116
150	125
160	130
180	138
200	146
220	155
240	166
270	176
300	190
330	204
360	215
390	228
430	245
470	261
510	277
560	297
620	318
680	340
750	368
820	392
910	422
1000	452
1100	485
1200	515
1300	545
1500	602
1600	632
1800	684
>2000	700





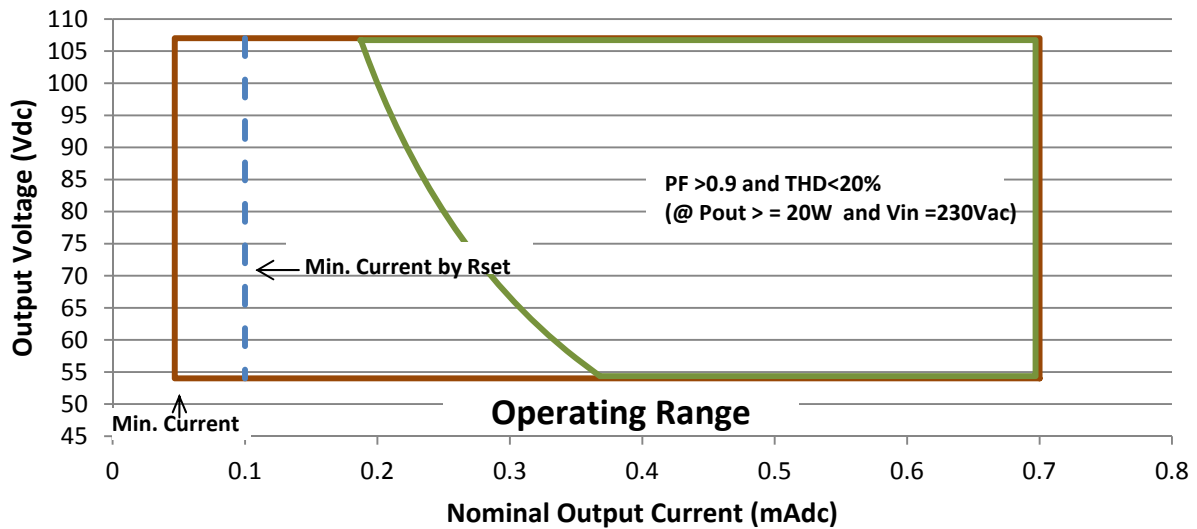
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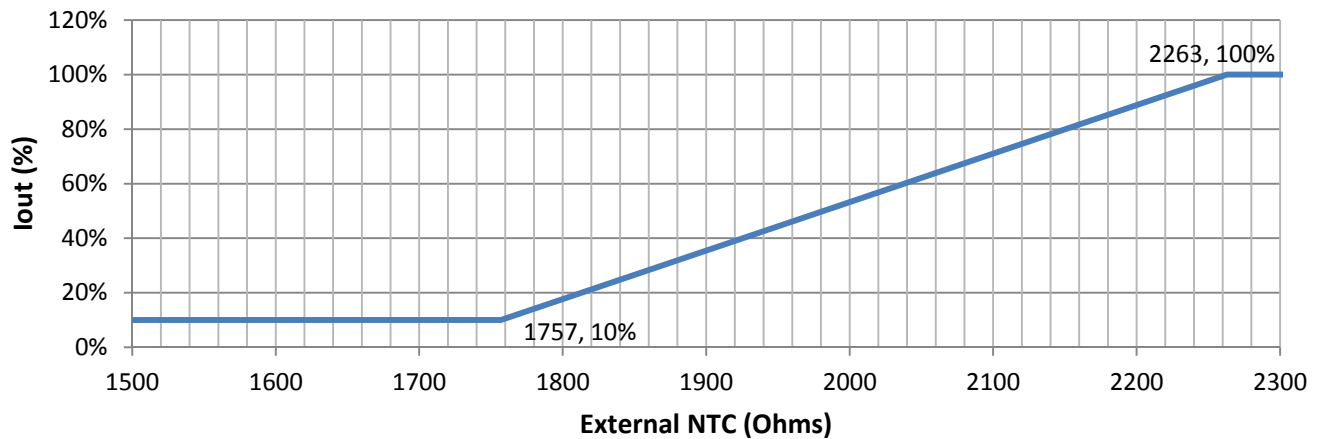
Operating Window:

929000708003



Module Temperature Protection:

Iout (%) VS External NTC Resistance at 70C TCase



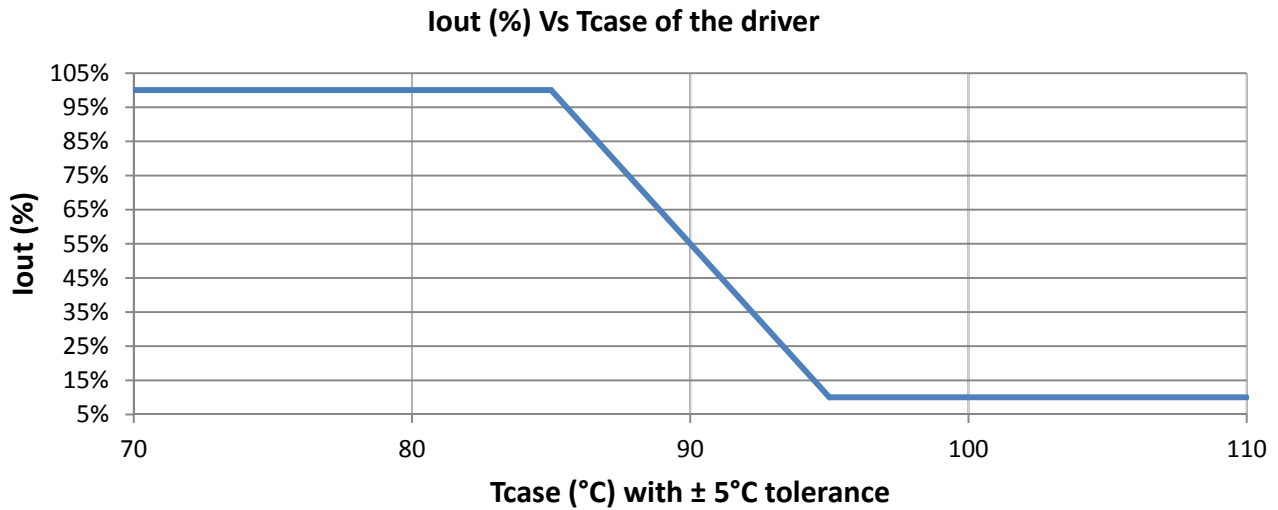


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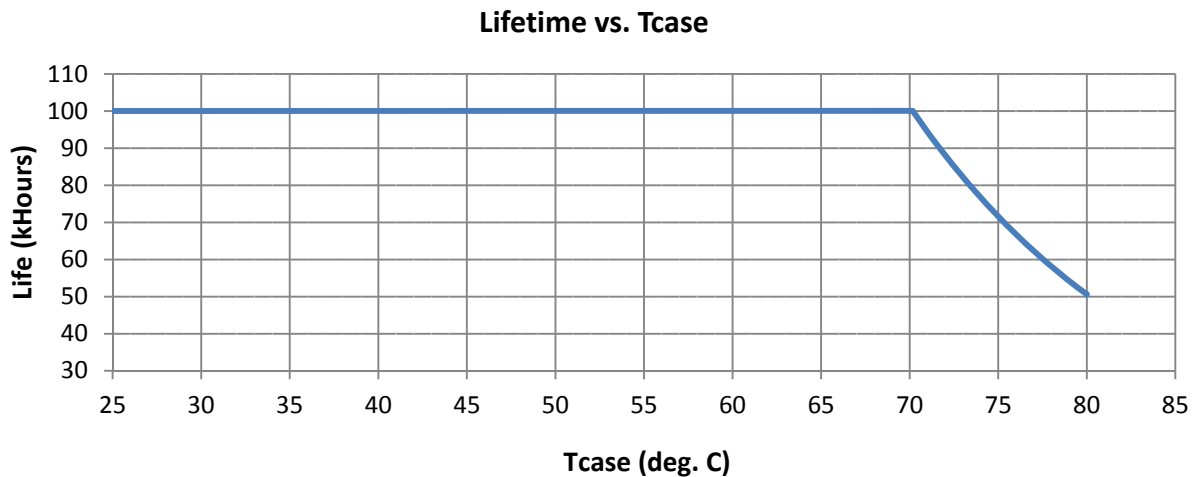
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Iout vs. Tcase of Driver:



Lifetime vs. Tcase of Driver:



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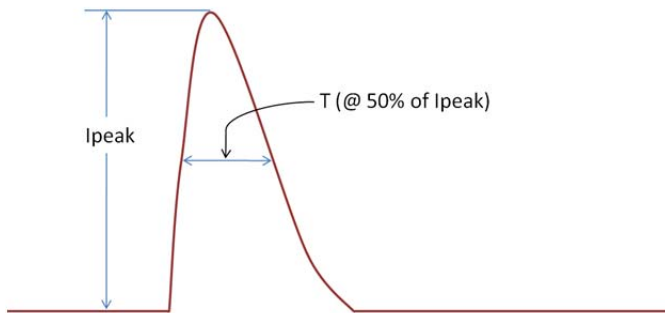
Failure Rate based upon MTBF modeling:

- 90% survivals at end of life @ $\leq T_{case}$ 70°C

Failure Rate based upon field call rate data:

- <0.01% per 1 kWhr @ $\leq T_{case}$ 70 C

Inrush Current Info:



Vin	Ipeak	T (@ 50% of Ipeak)
120 Vrms	35 A	120 μ s
230 Vrms	70 A	120 μ s
277 Vrms	85 A	120 μ s

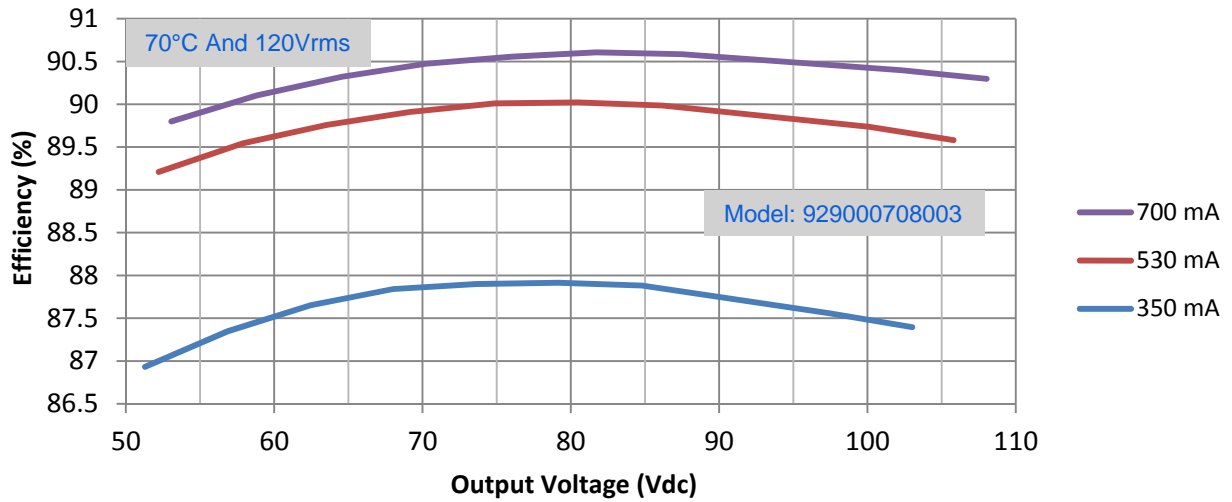
Inrush current is measured at peak of the corresponding line voltage, source impedance per NEMA 410.

Performance Characteristics

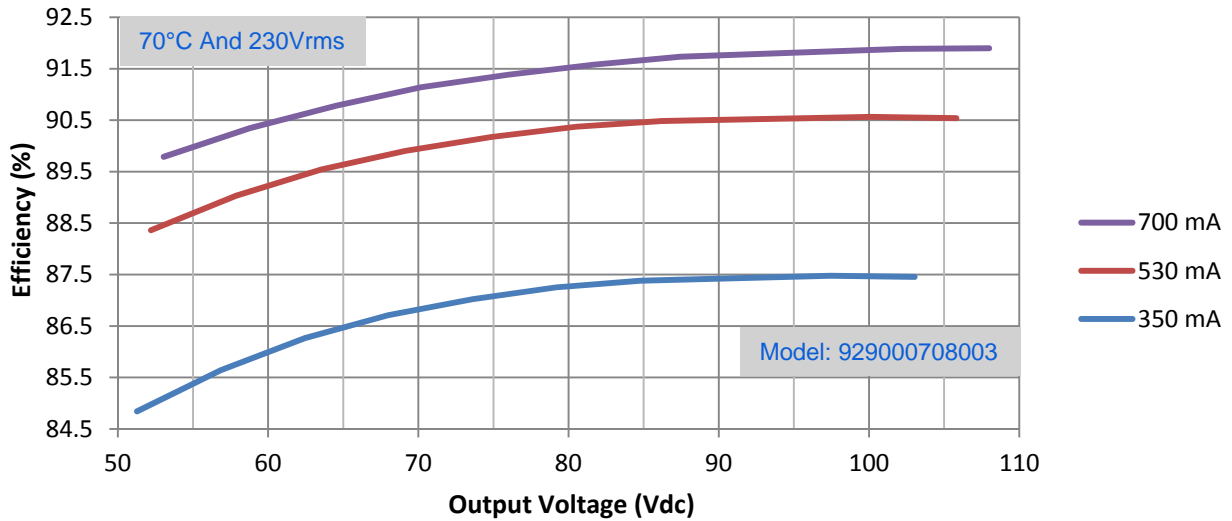
Based on measurements on a typical sample. The accuracy of the measurements is within the tolerance of the measurement instruments. The graphs are meant to be a guideline and not a specification.

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Efficiency vs. Output Voltage



Efficiency vs. Output Voltage

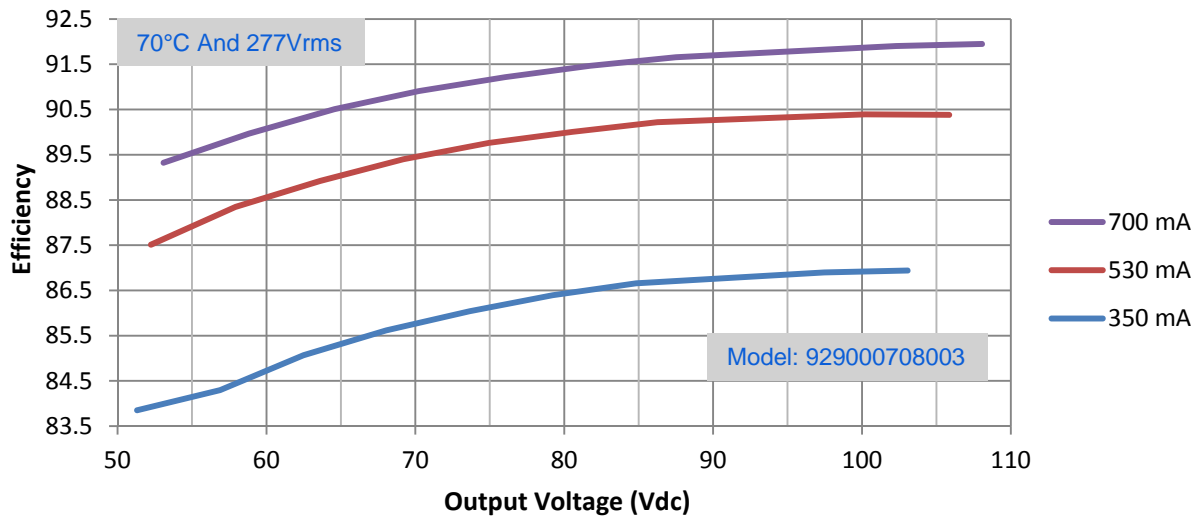


Performance Characteristics

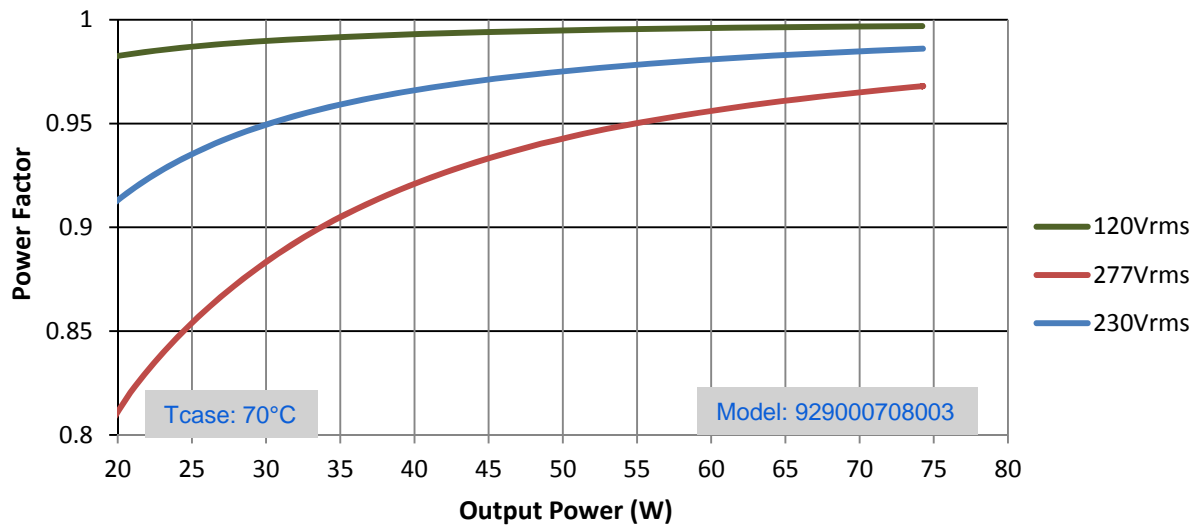
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Efficiency vs. Output Voltage



Power Factor vs. Output Power



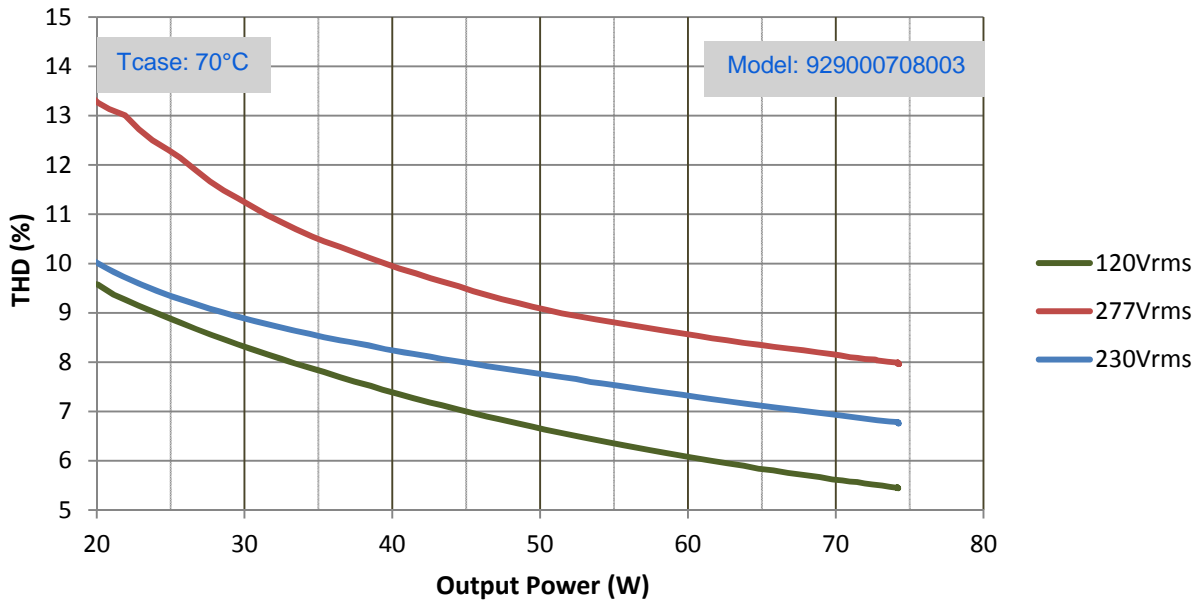


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THD vs. Output Power





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Isolation:

CE isolation

Basic isolation: 2U+1000V Double Isolation: 4U+2750V

Isolation	Input Wires	Output Wires	0-10V Wires(Class 1&2)	Chassis
Input Wires	Not Applicable	Basic	Basic	Double
Output Wires	Basic	Not Applicable	Basic	Double
0-10V Wires (Class 1 & 2)	Basic	Basic	Not Applicable	Double
Chassis	Double	Double	Double	Not Applicable

UL isolation

Isolation	Input Wires	Output Wires	0-10V Wires (Class 1&2)	Chassis
Input Wires	Not Applicable	2xU+1KV	2.5KVac	2xU+1KV
Output Wires	2xU+1KV	Not Applicable	2.5KVac	2xU+1KV
0-10V Wires(Class 1&2)	2.5KVac	2.5KVac	Not Applicable	2.5KVac
Chassis	2xU+1KV	2xU+1KV	2.5KVac	Not Applicable

The following link can be used to access the list of UL recognized drivers.

<http://database.ul.com/cgi-bin/XYV/template/LISEXT/IFRAME/index.html>

On the page enter File Number as **E321253** and then choose the section **FKSZ2** to show all the drivers that are UL recognized under this file number.



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