

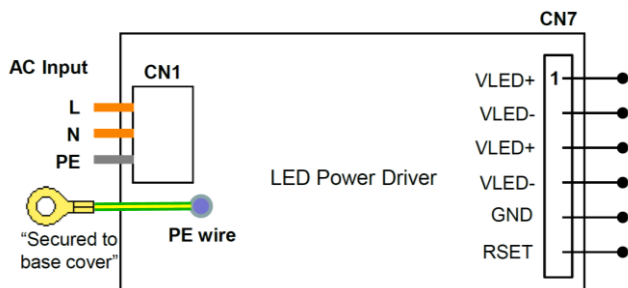
929000696103

Brand Name	XITANIUM
Description	Xitanium 55W 0.84-1.5A 36V 120-277V
Input Voltage	120~277V
Input Frequency	50/60Hz
RoHS	Yes
Status	Active

Electrical Specifications

Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency@ Max Load		Max Case Temp. (°C)	Input Current			Max. Input Power (W)	Inrush Current (A _{in} /50%-μs)		THD @ Max Load (%)	Power Factor @ Max Load 120/277 Vac	Weight (Lbs/kgs)	Envir. Protection Rating
			120 V	277 V		120V		277V		120 Vin	5.7/ 360				
55	28 - 36	0.84 -1.5			70 °C				87			20	>0.9	0.355	UL Dry & Damp
			86%	87.8 %		0.5		0.22							

Wire Diagram



- Input connector: DG250-7.0-03P-1Y-10A(H)
- Wire Type: Solid 0.2...0.75 mm², 22-18AWG
- Wire strip length: 8...9mm
- Output connector: CN7 (B06B-PASK)



Enclosure

	in. (mm)
Case Length	14.17 (360)
Case Width	1.18 (30.0)
Case Height	1.0 (25.0)
Mounting Length	13.78 (350)
Mounting Width	1.18 (30)
Overall Length	14.17 (360)

Revised 04/06/2012

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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

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Brand Name	XITANIUM
Description	Xitanium 55W 0.84-1.5A 36V I20-277V
Input Voltage	I20~277V
Input Frequency	50/60Hz
RoHS	Yes
Status	Active

Product Data	
Order code	929000696103
Full product code	929000696103
Full product name	Xitanium 55W 0.84-1.5A 36V GL-O sXt
Line Voltage	120/230/277V
Min. Mains voltage operational	108V [min]
Output peak voltage	305V [max]
Mains voltage safety (AC)	+/-10%
Mains voltage performance (AC)	+/-10%
Line Current	0.5A @ 120V, 0.22@ 277V
Line Frequency	50/60Hz
THD total	< 20%
PF @ Max Load	>0.9
Inrush current Width	Refer to table
Maximum ballast number on MCB 16A	52pcs@120V / 18pcs@230V/ 15pcs@277V
Isolation	SELV (output double/reinforced isolated from the mains)
Output voltage range	28 – 36 V
Open load voltage	42V
Output current range	0.84 – 1.5A
LED current Tolerance	+/-5%
Max nominal output current setting (see table 1.1)	Possible by external resistor between Rset and GND connector
Output Current ripple	15% @ 1500 mA (ripple = pk-pk/avg)
Output power range	26.9 – 54 W
Tcase Temp Range	-20C to +60C
Tambient Temp Range	-20C to +55C
Max TC	70C (Lifetime reduced to 25 khr)
Life @ TC 60 C	50000 hr [nom.]
Suitable for Outdoor use	No
Input connector	DG250-7.0-03P-1Y-10A(H)
Output connector	B06B-PASK)
Protections	Short Circuit (Latch-off), Overvoltage (Latch-off) (Restart Driver when AC Power Off/On again.)
Interfaces	Rset
Net weight per piece	0.355 KG

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Installation & Application Notes:

Section I – Physical Characteristics

- 1.1 LED Driver shall be installed inside an electrical enclosure
- 1.2 Wiring inside electrical enclosure shall comply with 300V/105°C rating or higher.

Section II – Performance

- 2.1 LED Driver has a rated lifetime of 50,000 hours @ TC <=60C.
- 2.2 LED Driver tolerates sustained open circuit and short circuit output conditions without damage.
- 2.3 LED Driver maximum allowable case temperature is 70°C – see product label for measurement location.
- 2.4 LED Driver complies with the requirements of UL, CSA, FCC, ENEC, CE, CQC

Section III – Conditions of Acceptability – UL File : E344668 Driver: IIPFC101A

- 3.1 The output of this LED Driver complies with the requirements in the NEC and CEC for Class 2 limits only.
- 3.2 The input and output connections have been invested for factory wiring only. Connection to supply mains shall be determined in the end product.
- 3.3 The LED drivers have been temperature tested in a 55 °C ambient, where the maximum temperatures on the enclosure reached 73.1 °C. The need for further evaluation of the internal components shall be considered if enclosure temperatures exceed this value when subjected to temperature testing in the end product
- 3.4 This product is suitable for use in dry and damp locations.
- 3.5 This product is intended to be installed as a built-in component of the end product. The unit shall be installed in compliance with the enclosure, mounting, spacing, casualty, temperature, and segregation requirements of the end product application.
- 3.6 The transformer (T2) employs a Class 130(B) insulation system.
- 3.7 Spacings have been evaluated in accordance with the requirements of the Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products, UL 8750, First Edition, Clause 7.8.3 and Table 7.4.
- 3.8 The unit employs input surge suppression protection not suitable for use in permanently connected products. The suppressed voltage rating is Type 4 SPD for Type other than SPD application. The suitability of use in permanently connected products must be determined in the end-product application.
- 3.9 The enclosure of this unit does not qualify as a final enclosure and the suitability shall be determined in each end-use application.
- 3.10 This unit did not provided grounding connection, An investigation of the prober grounding terminal to the end-product main grounding termination shall be required.
- 3.11 The LED driver is provided with Push-in type input terminal block, which is pressure wire connector type and suitable for use with 18-22 AWG, stranded copper wire only. The suitability of the connection (including spacing between factory connectors) shall be determined in the end use.

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Electrical Specifications

1.1 Rset2 table

Rset [Ω]	Iset [mA]	Rset [Ω]	Iset [mA]
0	100	2200	779.7414
100	100	2400	823.4195
110	105.4598	2700	883.477
120	110.9195	3000	940.8046
130	116.3793	3300	992.6724
150	124.569	3600	1041.81
160	130.0287	3900	1085.489
180	138.2184	4300	1142.816
200	146.408	4700	1191.954
220	154.5977	5100	1238.362
240	165.5172	5600	1292.96
270	176.4368	6200	1350.287
300	190.0862	6800	1402.155
330	203.7356	7500	1454.023
360	214.6552	8200	1503.161
390	228.3046	9100	1557.759
430	244.6839	10000	1604.167
470	261.0632	11000	1653.305
510	277.4425	12000	1694.253
560	296.5517	13000	1729.741
620	318.3908	15000	1792.529
680	340.2299	16000	1817.098
750	367.5287	18000	1863.506
820	392.0977	20000	1901.724
910	422.1264	22000	1934.483
1000	452.1552	24000	1964.511
1100	484.9138	27000	2000
1200	514.9425	>100000	700
1300	544.9713		
1500	602.2989		
1600	632.3276		
1800	684.1954		
2000	733.3333		

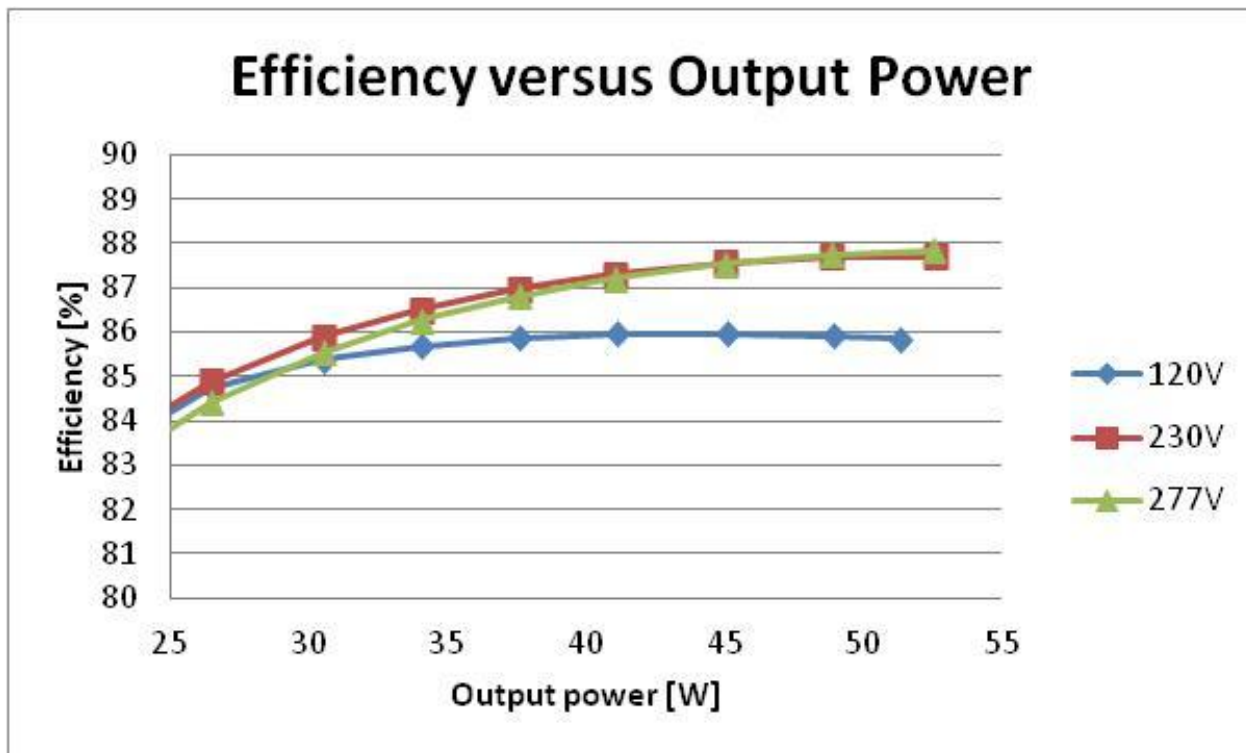
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Electrical Specifications

Efficiency versus Output Power



Revised 04/06/2012

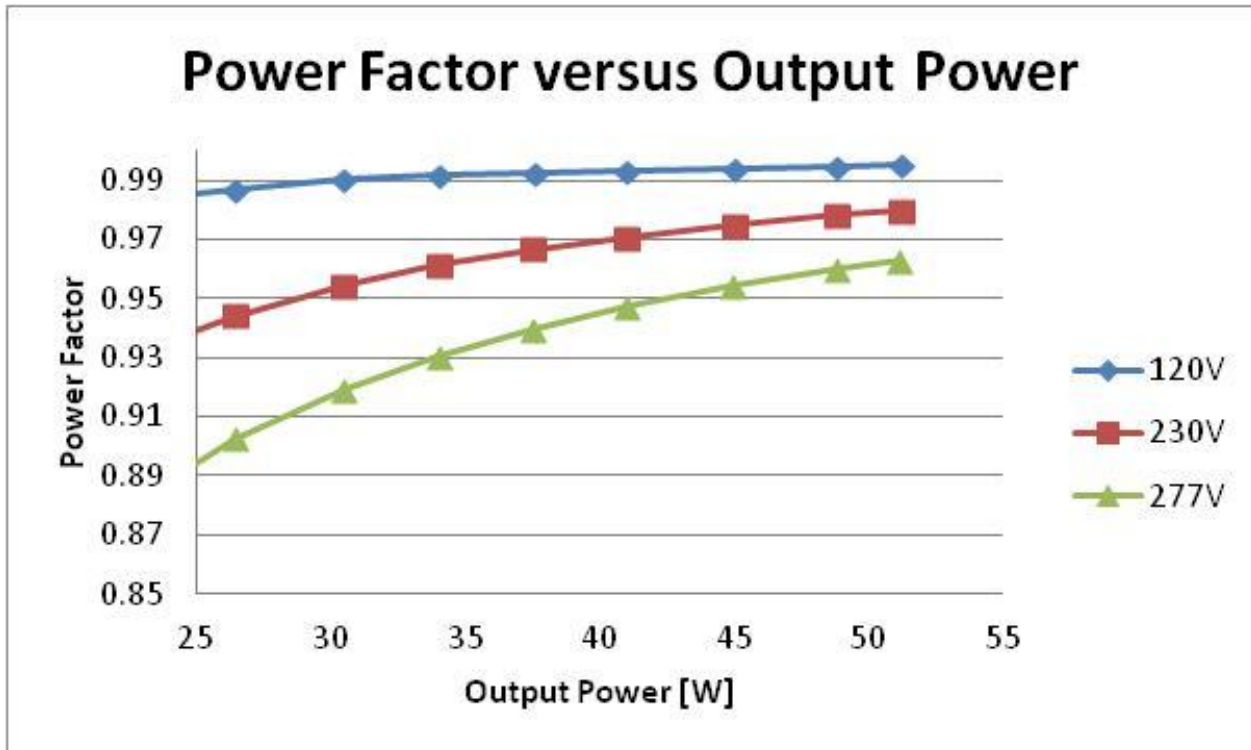


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Power Factor versus Output Power



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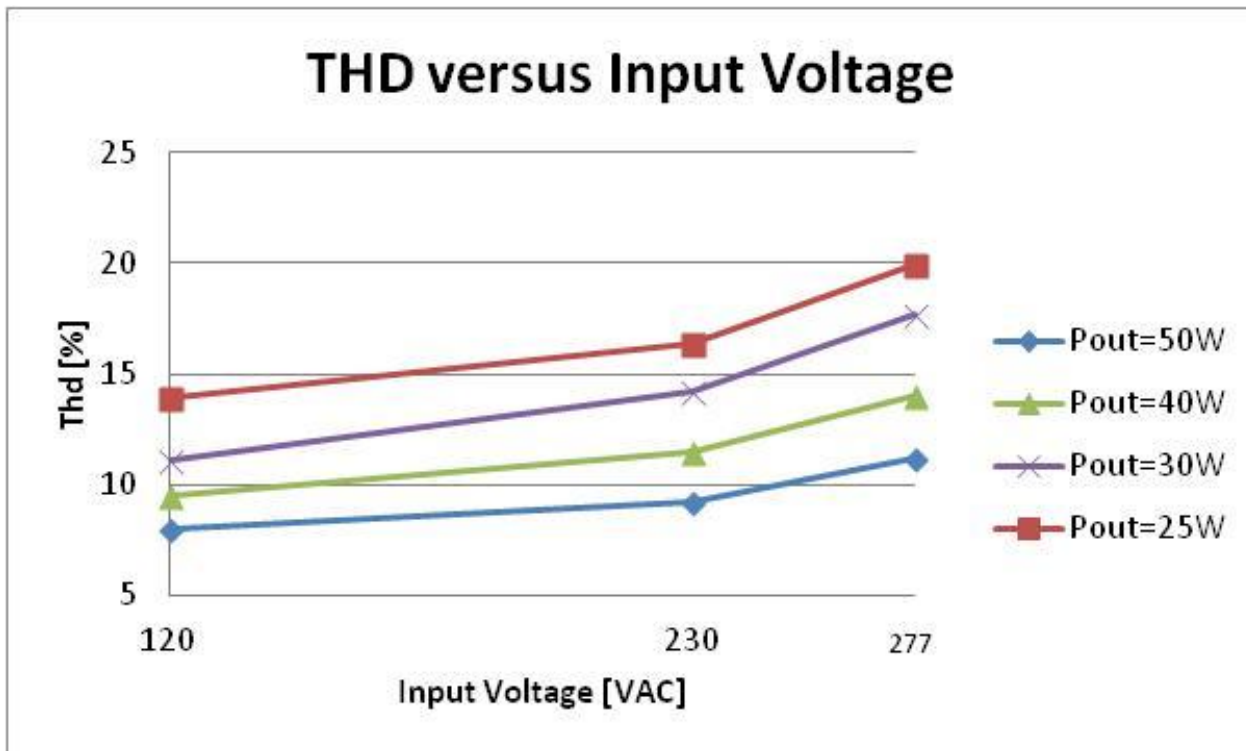
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Electrical Specifications

THD versus Input Voltage



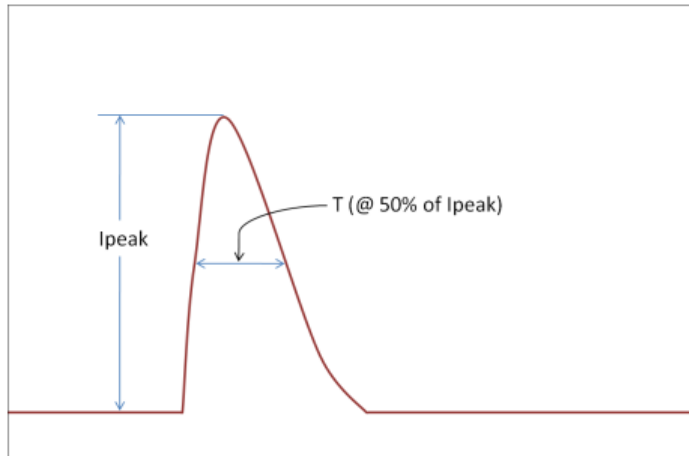
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Inrush Current Info:



Vin	Ipeak	T (@ 50% of Ipeak)
120 Vrms	5.66 A	360 μ s
230 Vrms	16.5A	335 μ s
277 Vrms	19.75A	350 μ s

Revision History:

Rev No.	Date	Description	Approval	Remarks
1.1	04/06/2012	*Remove the "M" in the part#	N.T.	

Revised 04/06/2012